



United States
Department of
Agriculture

Agricultural
Research
Service

Plant Inventory No. 200, Part I

Plant Materials Introduced
January 1 to April 31, 1991
(Nos. 546349 to 550930)

APR - 3 1992

NPGQC-GLENN DALE, MD



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Plant Inventory No. 200 is a listing of plant materials introduced into the U.S. National Plant Germplasm System during calendar year 1991. The Inventory is divided into three parts that encompass PI numbers 546349 - 559358. This is not a listing of plant material for distribution.

Questions about data organization and proper plant identifications should be directed to the editor:

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PI 546349. *Avena sativa* L. POACEAE Common oat

Donated by: Bacon, R.K., Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas, United States. **remarks:** Ozark Oat. Received January 02, 1991.

origin: United States. **origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701. **cultivar:** OZARK. **pedigree:** Florida 501/PI 296254. (PI 296254 is *Avena sterilis* collected in Israel in 1964). **other id:** CI 9421. **other id:** AR 102-5. **other id:** CV-333. **source:** Crop Sci. 31(5):1383 1991. **group:** CSR-OAT. **remarks:** Excellent winterhardiness. Test weight heavy, averaging 467kg. m-3. Leaves wide, blue-green. Plant height ca. 8cm taller and maturity 3 days later than cultivar Bob. Panicles equilateral, spreading. Lemmas tan, short with few to several long basal hairs. Awns few or absent. Kernels plump, predominately fluorescent, up to 2% may be of non-fluorescent variants. Occasional tall or late plants may. Winter Annual. Cultivar. Seed.

PI 546350. *Sorghum bicolor* (L.) Moench POACEAE Milo sorghum

Donated by: Duncan, R.R., Georgia Agr. Exp. Sta., University of Georgia, Griffin, Georgia, United States; and Colorado Agr. Exp. Sta.; and Arizona Agr. Exp. Sta.. **remarks:** GAC102 Acid Soil Tolerant Tissue Culture Regenerant. Received January 02, 1991.

origin: United States. **origin institute:** Georgia Agr. Exp. Sta., University of Georgia, Griffin, Georgia 30223. **cultivar:** GAC102. **pedigree:** Mutation from Hegari (S.P.I. 22326). **other id:** GP-358. **source:** Crop Sci. 31(5):1396 1991. **group:** CSR-SORGHUM. **remarks:** Tissue culture (mature embryo) regenerated somaclonal variant from Hegari. Tolerant to acid soil stress (50% aluminum saturation, pH 4.4, less than 5% organic matter). Yields high under limited moisture (drought stress) conditions on alkaline soils. Phenotypically similar to nonregenerated Hegari except panicle semi-open. Spring Annual. Breeding Material. Seed.

PI 546351 to 546361. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Dedio, W., Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba, Canada. **remarks:** Eleven Sunflower Parental Lines. Received January 02, 1991.

PI 546351 to 546361-continued

- PI 546351 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 612. **pedigree:** S6 selection from Mennonite. **other id:** PL-57. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Maturity medium. Plant height short-medium. Petals yellow-orange. Achenes large, grayish-black color, narrow white strips. Resistant to *Verticillium dahliae*. Spring Annual. Breeding Material. Seed.
- PI 546352 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 614. **pedigree:** S5 selection from North Dakota bird resistant synthetic BRS 2. **other id:** PL-58. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Flowering medium-late. Plant height medium. Neck bends over. Achenes white with oil content 39%. Resistant to *Plasmopara halstedii*, *Verticillium dahliae* and *Puccinia helianthi*. Some resistance to birds. Spring Annual. Breeding Material. Seed.
- PI 546353 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 615. **pedigree:** Composite of 3 F6 plants derived from BRS2. **other id:** PL-59. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Flowering medium. Plant height medium. Neck bends over. Achenes white with oil content 41%. Resistant to *Puccinia helianthi*, *Verticillium dahliae* and some tolerance to *Sclerotinia sclerotiorum*. Some resistance to birds. Spring Annual. Breeding Material. Seed.
- PI 546354 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 616. **pedigree:** Composite of 3 F4 plants derived from CM596/BRS 1-1544. (BRS 1-1544 is S1 plant from BRS1. CM596 is early restorer). **other id:** PL-60. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Plant height medium. Restorer line in cms background. Branching character conditioned by recessive genes. Achenes elongated, medium, white color. Resistant to *Plasmopara halstedii*, race 2. Spring Annual. Breeding Material. Seed.

PI 546351 to 546361-continued

- PI 546355 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 617. **pedigree:** Composite of 3 F4 plants derived from CM596/BRS 1-1544. (BRS 1-1544 is S1 plant from BRS1. CM596 is early restorer). **other id:** PL-61. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Plant height short-medium. Restorer line in cms background. Branching character conditioned by recessive genes. Achenes oblong, medium, light tan color. Resistant to *Plasmopara halstedii*, race 2, *Puccinia helianthi*, race 1 and *Verticillium dahliae*. Spring Annual. Breeding Material. Seed.
- PI 546356 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 619. **pedigree:** Composite of 5 F7 plants from RHA297/3*CM497. **other id:** PL-62. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Early, single-headed restorer in cms background. Convex heads. Semi-dwarf. Moderately resistant to *Plasmopara halstedii*, race 2 and *Verticillium dahliae*. Achenes medium, predominately black with approx. 37% oil content. Spring Annual. Breeding Material. Seed.
- PI 546357 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 620. **pedigree:** Composite of 2 F5 plants from wild H. annuus/Kras 3*630// Rcomp/CM 3* 469///unknown line. (Kras 630 from Krasnodarets variety). **other id:** PL-63. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Single-headed oilseed restorer line in cms background. Flowering and height medium. Achenes predominately black. Resistant to *Verticillium dahliae* and *Puccinia helianthi*. Spring Annual. Breeding Material. Seed.
- PI 546358 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 621. **pedigree:** Composite of 4 S6 plants from fertile cms HA 301 plant, which was probably outcrossed with unknown restorer line. **other id:** PL-64. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Restorer line in cms background. Branching character conditioned by recessive genes. Height and flowering time medium. Achenes predominately black with high oil content. Resistant to *Plasmopara halstedii* and *Verticillium dahliae*. Spring Annual. Breeding Material. Seed.

PI 546351 to 546361-continued

- PI 546359 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 622. **pedigree:** Composite of 3 F6 plants from CM590/CM591. (CM590 and CM591 derived from Rcomp/CM3* 469). **other id:** PL-65. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Single-headed restorer line in cms background. Lodging resistance good. Petals orange. Maturity early. Height medium. Achenes black with average oil content. Resistant to Plasmopara halstedii, race 2 and Verticillium dahliae. Spring Annual. Breeding Material. Seed.
- PI 546360 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 624. **pedigree:** F4 selection from CM361/CM447. **other id:** PL-66. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Maturity very early. Semi-dwarf. Achenes black with approx. 46% oil content. Resistant to Verticillium dahliae and Puccinia helianthi. Spring Annual. Breeding Material. Seed.
- PI 546361 **origin:** Canada. **origin institute:** Morden Res. Sta. -- Agriculture Canada, Morden, Manitoba ROG 1JO. **cultivar:** CM 625. **pedigree:** F5 selection from Cm594/NS39. (CM594 selection from Armavirc and NS39 is striped Yugoslavian line). **other id:** PL-67. **source:** Crop Sci. 31(5):1403 1991. **group:** CSR-SUNFLOWER. **remarks:** Flowering early. Height medium. Achenes larger than normal for oil type, predominately black color, approx. 41% oil content. Resistant to Puccinia helianthi, race 1 and Verticillium dahliae. Spring Annual. Breeding Material. Seed.

PI 546362. *Triticum turgidum* L. POACEAE Durum wheat

Donated by: McLeod, J.G., Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan, Canada. **remarks:** DT369 Durum Germplasm. Received January 02, 1991.

PI 546362-continued

origin: Canada. **origin institute:** Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan S9H 3X2. **cultivar:** DT369. **pedigree:** Wascana/Quilafen. (Wascana = Lakota/2* Pelissier and Quilafen introduction from Chile). **other id:** 7267-90D2H. **other id:** GP-329. **source:** Crop Sci. 31(6):1717 1991. **group:** CSR-WHEAT. **remarks:** Semi-dwarf. High yielding in brown soil zone of Saskatchewan. Resistant to *P. recondita*, *P. graminis*, *Tilletia laevis*, *T. caries* and *Ustilago tritici*. Moderately susceptible to *Pyrenophora tritici-repentis*. Moderately resistant to *Cochliobolus sativus* and *Septoria* sp. *Semonlina* and cooking quality very good. Gluten very strong. Pigment level good. Protein slightly low. Pigment loss in processing. Spring Annual. Breeding Material. Seed.

PI 546363. *Avena sativa* L. POACEAE Spring oat

Donated by: Kibite, S., Lacombe Res. Sta. -- Agriculture Canada, Bag Service 5000, Lacombe, Alberta, Canada. **remarks:** Oat Genetic Stock LAO-456-MUT-01. Received January 02, 1991.

origin: Canada. **origin institute:** Lacombe Res. Stn. -- Agriculture Canada, Bag Service 5000, Lacombe, Alberta. **cultivar:** LAO-456-MUT-01. **pedigree:** Spontaneous mutant from OT745/Tibor, F2. **other id:** Monster oat. **other id:** GS-1. **source:** Crop Sci. 31(5):1398 1991. **group:** CSR-OAT. **remarks:** Panicles drooping and proliferous. Rachis very long. Pedicles extended. Peduncle twisted. Leaves very long, wide, thick. Tillering restricted. Bio-mass yield high. Grows 50-80cm taller and matures 40-45 days later than normal oats. Monster trait conditioned by single recessive gene designated as gi-3 gene. Spring Annual. Genetic Material. Seed.

PI 546364. *Oryza sativa* L. POACEAE Rice

Donated by: Bollich, C., Agricultural Research Service -- USDA, Rt. 7, Box 999, Beaumont, Texas, United States. Received January 02, 1991.

PI 546364-continued

origin: United States. **cultivar:** DELLMONT. **pedigree:** Della-X2/Lemont*5. **remarks:** Maturity early. Semidwarf. Grain long. Plant height 94cm. Days from seeding to heading 87. Grain aromatic, glabrous. Apiculus purple. Amylose intermediate-high. Gelatinization type intermediate. Lemma and palea straw-colored. Inner surface of leaf sheath slight purple color near base. Susceptible to sheath blight (*Ryzoctonia solani*). Superior field resistance to blast (*Pyricularia oryzae*). Spring Annual. Cultivar. Seed.

PI 546365. *Oryza sativa* L. POACEAE Rice

Donated by: Bollich, C., Agricultural Research Service -- USDA, Rt. 7, Box 999, Beaumont, Texas, United States. Received January 02, 1991.

origin: United States. **cultivar:** ROSEMONT. **pedigree:** CI9881/PI331581//L201. **remarks:** Maturity very early. Semidwarf. Grain long. Superior main crop and ratooning ability. Height 88cm. Days from seeding to heading 85. Leaves and grain glabrous. Apiculus purple. Stigma colorless. Lemma and palea straw-colored. Grain non-aromatic. Amylose high. Gelatinization type intermediate. Susceptible to blast (*Pyricularia oryzae*) and sheath blight (*Ryzoctonia solani*). Spring Annual. Cultivar. Seed.

PI 546366 to 546368. *Camellia* hybrid THEACEAE

Donated by: U.S. National Arboretum, USDA-ARS, 3501 New York Avenue, NE, Washington, District of Columbia, United States. Received January 02, 1991.

PI 546366 **donor id:** NA 61950. **origin:** United States. **cultivar:** POLAR ICE. **pedigree:** C. Frost Princess (*C. hiemalis*/*C. oleifera*)/*C. oleifera*. **remarks:** Plant more upright than other cultivars. Leaves with indented veins, glossy, dark green, obovate, 10cm long, 4.5cm wide and crenate to serrate margins. Flowers anemone, white, 9cm diameter, 12 petals and 89 petaloids evident up to 5 weeks in October - November. Recommended for landscape purposes in mid-Atlantic region as far north as USDA hardiness Zone 7. Shrub. Cultivar. Plant.

PI 546366 to 546368-continued

PI 546367 **donor id:** NA 61951. **origin:** United States. **cultivar:** SNOW FLURRY. **pedigree:** *C. oleifera*/*C. Frost Princess*. **remarks:** Plant moderately vigorous, spreading, slightly pendulous branches. Leaves semi-glossy, medium green, 3cm long and 3cm wide with serrate margins. Flowers white, 7cm diameter, 16 petals and 18 petaloids borne frequently in Maryland up to 6 weeks in October - November. Recommended for landscape purposes in mid-Atlantic region as far north as USDA hardiness Zone 7. Shrub. Cultivar. Plant.

PI 546368 **donor id:** NA 61952. **origin:** United States. **cultivar:** WINTER'S ROSE. **pedigree:** *C. oleifera*/*C. hiemalis* Otome. **remarks:** Plant slow growing, spreading, drooping branchlets. Leaves coriaceous, semi-glossy, very dark green, elliptic, 7cm long, 2.5cm wide with crenate margins. Flowers shell pink, 5cm wide, formal double with 28 petals. Frequently in Maryland blooms over 4-5 week period in October - November. Recommended for landscape purposes in mid-Atlantic region as far north as USDA hardiness Zone 7. Shrub. Cultivar. Plant.

PI 546369. *Cleome lutea* Hook. CAPPARACEAE

Donated by: Poulson, P.M., State Arboretum of Utah, Salt Lake City, Utah, United States. Received January 14, 1991.

origin: United States. **locality:** Garfield County. Seed.

PI 546370. *Artemisia ludoviciana* Nutt. ASTERACEAE Louisiana sage

Donated by: Goodson, D.G., USDA-SCS, Meeker Plant Materials Center, P.O. Box 448, Meeker, Colorado, United States. **remarks:** Received through NPMC, Beltsville, MD. Received December 10, 1990.

origin: United States. **cultivar:** SUMMIT. **collected:** October 04, 1975. **other id:** 9021474. **other id:** EPC 328. **other id:** 08-00328. **locality:** Gravelly, loam soil, Georgetown Summit, Bear Lake County, in Major Land Resource Area called Northern Rocky Mountains. **elevation:** 1909m. **remarks:** Herbaceous perennial, 60-90cm tall, spreading rootstock. Leaves and stems wooly pubescent. Leaves variable. Heads narrow spike-like or raceme-like panicles. Flowers numerous, small (3mm), corollas light brown, self or open pollinated. Fruits achene, present in all flowers. Flowering begins early July. Developed for ability to establish on harsh sites, control erosion, and encourage establishment. Perennial. Cultivar. Seed.

PI 546371. *Artemisia tridentata* Nutt. ASTERACEAE Mountain big sagebrush

Donated by: Goodson, D.G., USDA-SCS, Meeker Plant Materials Center, P.O. Box 448, Meeker, Colorado, United States. Received December 10, 1990.

origin: United States. **cultivar:** HOBBLE CREEK.
collected: 1968. **other id:** 9024374. **locality:** Mouth of Hobble Creek drainage just E of Springville. **remarks:** Mature height 1.0-1.2m. Vegetative production .382 grams per cm. Main stem divided at or near ground. Plants tend to have spreading, flat top crown. Crushed leaves emit strong comphorlike fragrance. Flowering begins late July to early August. Seeds achenes, mature first of December, small. Preferred by wintering mule deer and domestic sheep. **received as:** *A. tridentata* subsp. *vaseyana*. Cultivar. Seed.

PI 546372. *Arachis hypogaea* L. subsp. *hypogaea* FABACEAE Peanut

Donated by: Nigam, S.N., ICRISAT, Legumes Program, Patancheru, Andhra Pradesh, India. **remarks:** ICGV 87141 Groundnut. Received January 04, 1991.

origin: India. **historical origin:** India. **origin institute:** ICRISAT, Legumes Program, Patancheru, Andhra Pradesh 502 324. **cultivar:** ICGV 87141. **pedigree:** (TMV 10/Chico) F2B2-NIB1-B1-B1-B1-B1-B1-B1-B1-B1-B1. **other id:** ICGS 76. **other id:** CV-42. **source:** Crop Sci. 31(4):1096 1991. **group:** CSR-PEANUT. **remarks:** Growth habit decumbent 3. Maturity 118-123 days. Flowering alternate. Pods mainly 2-seeded, medium sized, and 73% meat. Moderate to prominent pod reticulation with slight to moderate pod constriction and beak. Tolerant to mid-season drought and bud necrosis disease. Seed tan. Seed weight 44g/100. Oil content 43%. Protein content 20%. O/L ratio 1.69. Spring Annual. Cultivar. Seed.

PI 546373. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Cooper, R.L., Agricultural Research Service -- USDA, Wooster, Ohio, United States; and Ohio Agr. Res. and Dev. Ctr..
remarks: Hobbit 87 Soybean. Received January 04, 1991.

PI 546373-continued

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Wooster, Ohio 44691.
cultivar: Hobbit 87. **pedigree:** Hobbit(6) x Williams 82.
other id: CV-287. **source:** Crop Sci. 31(4):1093 1991.
group: CSR-SOYBEAN. **other id:** HC Hobbit BC. **source:** Prior designation. **other id:** PVP 9000013. **source:** Pending. **group:** PVPO. **remarks:** Maturity mid Group III. Determinate, semidwarf developed specifically for high yield environments where lodging is a barrier to higher yield for taller indeterminate varieties. Backcross isolate of Hobbit with RPS1k gene for multirace resistance to phytophthora rot added. Annual. Cultivar Seed.

PI 546374. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Cooper, R.L., Agricultural Research Service -- USDA, Wooster, Ohio, United States; and Ohio Agr. Res. and Dev. Ctr..
remarks: Sprite 87 Soybean. Received January 04, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Wooster, Ohio 44691.
cultivar: Sprite 87. **pedigree:** Sprite (7) x Williams 82
other id: CV-288. **source:** Crop Sci. 31(4):1093 1991.
group: CSR-SOYBEAN. **other id:** HC Sprite BC. **source:** Prior designation. **other id:** PVP 9000014. **source:** Pending. **group:** PVPO. **remarks:** Maturity mid Group II. Determinate, semidwarf developed specifically for high yield environments where lodging is a barrier to higher yield for taller indeterminate varieties. Backcross isolate of Sprite with RPS1k gene for multirace resistance to phytophthora rot added. Annual. Cultivar Seed.

PI 546375. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Cooper, R.L., Agricultural Research Service -- USDA, Wooster, Ohio, United States; and Ohio Agr. Res. and Dev. Ctr..
remarks: Amcor 89 Soybean. Received January 04, 1991.

PI 546375-continued

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Wooster, Ohio 44691.
cultivar: Amcor 89. **pedigree:** Amcor(6) x Williams 82.
other id: CV-289. **source:** Crop Sci. 31(4):1094 1991.
group: CSR-SOYBEAN. **other id:** HC Amcor. **remarks:**
Maturity late Group II. Indeterminate with specific adaptation to drought prone soils and double cropping where short varieties tend to produce inadequate height. Backcross isolate of Amcor with the RPS1k gene for multirace resistance to phytophthora rot added. Annual. Cultivar. Seed.

PI 546376 to 546447. *Beta vulgaris* subsp. *maritima* (L.) Arcang.
CHENOPODIACEAE

Donated by: McFarlane, J.S., USDA-ARS, U.S. Agricultural Research Station, P.O. Box 5098, Salinas, California, United States.
Received February 28, 1990.

- PI 546376 **origin:** UNKNOWN. **other id:** Ames 4188. **other id:** WB 2.
received as: *Beta atriplicifolia*. Annual. Wild. Seed.
- PI 546377 **origin:** UNKNOWN. **other id:** Ames 4267. **other id:** WB 3.
received as: *Beta atriplicifolia*. Annual. Wild. Seed.
- PI 546378 **origin:** UNKNOWN. **other id:** Ames 4268. **other id:** WB 4.
received as: *Beta atriplicifolia*. Annual. Wild. Seed.
- PI 546379 **origin:** Spain. **collected:** July 25, 1971. **other id:** Ames 4274. **other id:** WB 198. **locality:** Mena farm, Lorca.
received as: *Beta atriplicifolia*. Annual. Wild. Seed.
- PI 546380 **origin:** Spain. **collected:** July 25, 1971. **other id:** Ames 4275. **other id:** WB 199. **locality:** San-Julian farm, Lorca. **received as:** *Beta atriplicifolia*. Annual. Wild. Seed.
- PI 546381 **origin:** Spain. **pedigree:** Bulk increase of PI 198344, 198345, 198346, 198357. **collected:** July 25, 1975. **other id:** Ames 4276. **other id:** WB 200. **received as:** *Beta atriplicifolia*. Annual. Wild. Seed.
- PI 546382 **origin:** Spain. **collected:** May 08, 1973. **other id:** Ames 4277. **other id:** WB 201. **received as:** *Beta atriplicifolia*. Annual. Wild. Seed.
- PI 546383 **origin:** UNKNOWN. **other id:** Ames 4193. **other id:** WB 29.
received as: *Beta maritima*. Annual. Wild. Seed.

PI 546376 to 546447-continued

- PI 546384 origin: Denmark. pedigree: Selection from PI 200582.
other id: Ames 4194. other id: WB 41. received as: Beta
maritima. Wild. Seed.
- PI 546385 origin: UNKNOWN. pedigree: Increase entry #2,
Beltsville. other id: Ames 4242. other id: WB 42.
received as: Beta maritima. Wild. Seed.
- PI 546386 origin: France. other id: Ames 4243. other id: WB 65.
received as: Beta maritima. Biennial. Wild. Seed.
- PI 546387 origin: UNKNOWN. other id: Ames 4244. other id: WB 66.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546388 origin: UNKNOWN. other id: Ames 4272. other id: WB 67.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546389 origin: UNKNOWN. other id: Ames 4245. other id: WB 68.
received as: Beta maritima. Biennial. Wild. Seed.
- PI 546390 origin: UNKNOWN. other id: Ames 4195. other id: WB 69.
received as: Beta maritima. Biennial. Wild. Seed.
- PI 546391 origin: UNKNOWN. other id: Ames 4197. other id: WB 70.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546392 origin: UNKNOWN. other id: Ames 4246. other id: WB 71.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546393 origin: UNKNOWN. other id: Ames 4198. other id: WB 73.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546394 origin: UNKNOWN. other id: Ames 4189. other id: WB 97.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546395 origin: UNKNOWN. other id: Ames 4200. other id: WB 99.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546396 origin: Turkey. pedigree: WB 146 = Inc. 7911 = SL 9482
interse=collected in Turkey, 1949. other id: Ames 4201.
other id: WB 146. received as: Beta maritima. Annual.
Wild. Seed.
- PI 546397 origin: Denmark. other id: Ames 4202. other id: WB 151.
other id: SP 663000-0. received as: Beta maritima.
Biennial. Wild. Seed.
- PI 546398 origin: Israel. collected: June 1975. other id: Ames
4206. other id: WB 167. received as: Beta maritima.
Annual. Wild. Seed.

PI 546376 to 546447-continued

- PI 546399 **origin:** Italy. **collected:** July 1971. **other id:** Ames 4207. **other id:** WB 169. **locality:** 10km S of Pescara. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546400 **origin:** Italy. **collected:** July 1971. **other id:** Ames 4190. **other id:** WB 172abc. **locality:** Guilianova. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546401 **origin:** Italy. **collected:** July 1971. **other id:** Ames 4247. **other id:** WB 172def. **locality:** Guilianova. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546402 **origin:** United Kingdom. **collected:** 1971. **other id:** Ames 4212. **other id:** WB 173. **locality:** Collection on fill behind sea wall, 11km N of Kings Lynn. **remarks:** Yellow wilt resistant. **received as:** Beta maritima. Biennial. Wild. Seed.
- PI 546403 **origin:** United Kingdom. **other id:** Ames 4213. **other id:** WB 178. **locality:** Wembury Bay. **remarks:** Yellow wilt resistant. **received as:** Beta maritima. Biennial. Wild. Seed.
- PI 546404 **origin:** United Kingdom. **historical origin:** Netherlands. **origin institute:** Inst. of Plant Breeding, Agricultural University, Wageningen, England. **pedigree:** Composite of 18 seed samples. **other id:** Ames 4214. **other id:** WB 179. **locality:** Area behind sea dike, Pet1 level near Hastings. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546405 **origin:** Denmark. **other id:** Ames 4215. **other id:** WB 180. **received as:** Beta maritima. Biennial. Wild. Seed.
- PI 546406 **origin:** Denmark. **other id:** Ames 4248. **other id:** WB 177. **locality:** Kalundborg Fjord. **received as:** Beta maritima. Biennial. Wild. Seed.
- PI 546407 **origin:** United Kingdom. **other id:** Ames 4250. **other id:** WB 182. **locality:** Cornwall. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546408 **origin:** United Kingdom. **other id:** Ames 4216. **other id:** WB 184. **locality:** Wembury Shore. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546409 **origin:** United Kingdom. **pedigree:** Composite of bulk plantings of SP 653006-0 and SP 653007-0. **other id:** Ames 4251. **other id:** WB 185. **locality:** Torpoint, Tamar. **received as:** Beta maritima. Biennial. Wild. Seed.

PI 546376 to 546447-continued

- PI 546410 **origin:** United Kingdom. **pedigree:** Composite of 20 plants. **other id:** Ames 4217. **other id:** WB 187. **locality:** Looe, England. **received as:** Beta maritima. Biennial. Wild. Seed.
- PI 546411 **origin:** United Kingdom. **pedigree:** Composite of 20 plants, PI 293220 - 293239. **other id:** WB 188. **locality:** Mewstone-Wembury. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546412 **origin:** Denmark. **other id:** Ames 4220. **other id:** WB 191. **locality:** Kalunborg Fjord. **remarks:** Selfed. Seed of type O. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546413 **origin:** France. **other id:** Ames 4252. **other id:** WB 242. **locality:** Loire river estuary. **remarks:** Low nematode cyst count. Two packets of sed pooled. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546414 **origin:** France. **pedigree:** Hybrid between B. maritima from Loire river estuary and wilt tolerant beet. **other id:** Ames 4221. **other id:** WB 243. **locality:** Loire river estuary. **received as:** Beta maritima. Cultivated. Seed.
- PI 546415 **origin:** Greece. **collected:** 1977. **other id:** Ames 4222. **other id:** WB 244. **other id:** EX 042. **locality:** Near Thessaloniki. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546416 **origin:** Greece. **collected:** June 29, 1977. **other id:** Ames 4223. **other id:** WB 245. **other id:** EX 040. **locality:** University farm, Thessaloniki. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546417 **origin:** France. **other id:** Ames 4224. **other id:** WB 249. **locality:** Trebeurden, N coast of Brittany. **received as:** Beta maritima. Wild. Seed.
- PI 546418 **origin:** Greece. **collected:** June 28, 1978. **other id:** Ames 4225. **other id:** WB 250. **locality:** Near Thessaloniki. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546419 **origin:** Greece. **collected:** June 28, 1978. **other id:** Ames 4226. **other id:** WB 251. **locality:** Near Thessaloniki. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546420 **origin:** Greece. **collected:** June 28, 1978. **other id:** Ames 4227. **other id:** WB 252. **locality:** Near Thessaloniki. **received as:** Beta maritima. Annual. Wild. Seed.

PI 546376 to 546447-continued

- PI 546421 **origin:** Greece. **collected:** June 28, 1978. **other id:** Ames 4228. **other id:** WB 253. **locality:** Near Thessaloniki. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546422 **origin:** Greece. **collected:** June 28, 1978. **other id:** Ames 4253. **other id:** WB 254. **locality:** Near Thessaloniki. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546423 **origin:** Greece. **collected:** June 28, 1978. **other id:** Ames 4229. **other id:** WB 255. **locality:** Near Thessaloniki. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546424 **origin:** Greece. **collected:** June 28, 1978. **other id:** Ames 4230. **other id:** WB 256. **locality:** Near Thessaloniki. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546425 **origin:** Italy. **collected:** 1979. **other id:** Ames 4254. **other id:** WB 257. **locality:** Po Delta. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546426 **origin:** Italy. **collected:** 1979. **other id:** Ames 4255. **other id:** WB 258. **locality:** Po Delta. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546427 **origin:** Greece. **collected:** 1979. **other id:** Ames 4256. **other id:** WB 266. **other id:** Rhodes #4. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546428 **origin:** Greece. **collected:** 1979. **other id:** Ames 4257. **other id:** WB 267. **other id:** Rhodes #7. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546429 **origin:** Greece. **collected:** 1979. **other id:** Ames 4258. **other id:** WB 268. **other id:** Sindos #6. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 546430 **origin:** Greece. **collected:** 1979. **other id:** Ames 4231. **other id:** WB 269. **other id:** Sindos #8. **received as:** Beta maritima. Wild. Seed.
- PI 546431 **origin:** Greece. **collected:** 1979. **other id:** Ames 4232. **other id:** WB 270. **other id:** Sindos #8. **received as:** Beta maritima. Wild. Seed.
- PI 546432 **origin:** India. **other id:** Ames 4259. **other id:** WB 275. **received as:** Beta maritima. Annual. Wild. Seed.

PI 546376 to 546447-continued

- PI 546433 origin: Turkey. collected: 1972. other id: Ames 4260.
other id: WB 277. locality: Izmir Province. received
as: Beta maritima. Annual. Wild. Seed.
- PI 546434 origin: Greece. other id: Ames 4261. other id: WB 280.
locality: Kos Island. remarks: Large variable
population. received as: Beta maritima. Annual. Wild.
Seed.
- PI 546435 origin: Greece. other id: Ames 4262. other id: WB 281.
locality: Samos Island. remarks: Used as leaf salad.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546436 origin: Greece. other id: Ames 4233. other id: WB 282.
locality: Chois Island. remarks: Possible contamination
with local garden varieties. received as: Beta maritima.
Annual. Wild. Seed.
- PI 546437 origin: Greece. other id: Ames 4263. other id: WB 283.
locality: Rhodes. remarks: Variable seed population.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546438 origin: Greece. other id: Ames 4234. other id: WB 284.
locality: Corfu. received as: Beta maritima. Annual.
Wild. Seed.
- PI 546439 origin: Turkey. other id: Ames 4235. other id: WB 303.
locality: Weed in maize crop, Karatas, Adana. received
as: Beta maritima. Annual. Wild. Seed.
- PI 546440 origin: Turkey. origin institute: Izmir Gene Bank.
other id: Ames 4264. other id: WB 304. received as:
Beta maritima. Annual. Wild. Seed.
- PI 546441 origin: Greece. other id: Ames 4236. other id: WB 309.
locality: Leros. remarks: Used as vegetable salad.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546442 origin: Greece. collected: 1979. other id: Ames 4266.
other id: WB 310. locality: Waste ground, Chios.
received as: Beta maritima. Annual. Wild. Seed.
- PI 546443 origin: Greece. collected: 1979. other id: Ames 4237.
other id: WB 311. locality: Coastal cliff, Mitilini.
received as: Beta maritima. Biennial. Wild. Seed.
- PI 546444 origin: Greece. collected: 1979. other id: Ames 4238.
other id: WB 316. other id: Symi 15. locality: Coastal
cliff, Mitilini. received as: Beta maritima. Biennial.
Wild. Seed.

PI 546376 to 546447-continued

- PI 546445 origin: Greece. collected: 1979. other id: Ames 4239.
other id: WB 317. other id: Kalyrnas 30. locality:
Coastal cliff, Mitilini. received as: Beta maritima.
Annual. Wild. Seed.
- PI 546446 origin: France. other id: Ames 4240. other id: WB 318.
locality: Kermangen, N coast of Brittany. received as:
Beta maritima. Annual. Wild. Seed.
- PI 546447 origin: France. other id: Ames 4241. other id: WB 319.
locality: Crozon, N coast of Brittany. received as: Beta
maritima. Annual. Wild. Seed.

PI 546448 to 546455. Beta vulgaris var. macrocarpa (Guss.) Moq.
CHENOPODIACEAE

Donated by: McFarlane, J.S., USDA-ARS, U.S. Agricultural Research
Station, P.O. Box 5098, Salinas, California, United States.
Received February 28, 1990.

- PI 546448 origin: UNKNOWN. pedigree: WB 20 = Inc. 8925 = Inc 3925
= 1957 Inc.=of unknown source. other id: Ames 4191.
other id: WB 20. received as: Beta macrocarpa. Annual.
Wild. Seed.
- PI 546449 origin: United States. pedigree: WB 24 = Inc. 0902 OP.
other id: Ames 4192. other id: WB 24. locality:
Imperial valley. received as: Beta macrocarpa. Annual.
Wild. Seed.
- PI 546450 origin: United States. pedigree: WB 25 = Inc. 7912.
other id: Ames 4270. other id: WB 25. locality:
Probably Imperial valley. received as: Beta macrocarpa.
Annual. Wild. Seed.
- PI 546451 origin: UNKNOWN. other id: Ames 4196. other id: WB 30.
received as: Beta macrocarpa. Annual. Wild. Seed.
- PI 546452 origin: UNKNOWN. other id: Ames 4271. other id: WB 31.
received as: Beta macrocarpa. Annual. Wild. Seed.
- PI 546453 origin: UNKNOWN. other id: Ames 4199. other id: WB 98.
received as: Beta macrocarpa. Annual. Wild. Seed.
- PI 546454 origin: United States. collected: May 28, 1968. other
id: Ames 4273. other id: WB 147. locality: Beet field
of E Chew, 8km W of Imperial. received as: Beta
macrocarpa. Annual. Wild. Seed.

PI 546448 to 546455-continued

PI 546455 origin: United States. pedigree: WB 157 = Inc. 0912C2 = Inc. 7912 = collection of *B. macrocarpa*. other id: Ames 4205. other id: WB 157. remarks: 2n = 18. received as: *Beta macrocarpa*. Annual. Wild. Seed.

PI 546456 to 546458. *Beta vulgaris* subsp. *patula* (Aiton) Ford-Lloyd & J. T. Williams CHENOPODIACEAE

Donated by: McFarlane, J.S., USDA-ARS, U.S. Agricultural Research Station, P.O. Box 5098, Salinas, California, United States. Received February 28, 1990.

PI 546456 origin: UNKNOWN. other id: Ames 4185. other id: WB 93. received as: *Beta patula*. Annual. Wild. Seed.

PI 546457 origin: UNKNOWN. pedigree: Contains outcrosses to sugar beet. other id: Ames 4186. other id: WB 95. received as: *Beta patula*. Annual. Wild. Seed.

PI 546458 origin: Portugal. pedigree: Inc. 7909 and 5972 from acc. 3020 (*Beta patula*). other id: Ames 4187. other id: WB 96. received as: *Beta patula*. Annual. Wild. Seed.

PI 546459 to 546460. *Perilla* sp. LAMIACEAE

Donated by: Iizuka, M., Facility of Horticulture, Chiba University, Matsudo-Shi, Chiba-Ken, Japan. remarks: Received through IBPGR, Rome, Italy. Received January 09, 1990.

PI 546459 donor id: 2298. origin: Nepal. collector id: 2298. other id: Ames 12792. group: Ames. Wild. Seed.

PI 546460 donor id: 8040. origin: Nepal. collector id: 8040. other id: Ames 12793. group: Ames. remarks: Seeds white, uniform. Wild. Seed.

PI 546461. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Sammons, D.J., Maryland Agr. Exp. Station, College Park, Maryland, United States. Received December 10, 1990.

donor id: MD 75266-46. origin: United States. origin institute: Maryland Agric. Exp. Station, College Park, Maryland 20742. pedigree: McNair 1587/Oasis. remarks: Maturity late. Plant height mid-tall. Straw stiff. Good winter survival. Spike unusually large. Rachis tough, hard to thresh under high humidity conditions. Moderately susceptible to moderately resistant to powdery mildew and leaf rust. Breeding Material. Seed.

PI 546462 to 546466. *Triticum durum* Desf. POACEAE

Donated by: Bozhinov, M., Cotton Research Institute, 6200 Tchirpan, Bulgaria. Received December 10, 1990.

PI 546462 **origin:** Bulgaria. **origin institute:** Cotton Research Institute, 6200 Tchirpan. **cultivar:** GEPGANA. **pedigree:** No. 788/2/M-5574/109 with gamma ray treatment. **remarks:** Spike large. Grain large. Hectolier mass 80kg. Kernel weight 54g/1000. Ripens 3-4 days later than Sadovo. Lodging and shattering resistant. Less cold resistant than Bezostaya 1. Fair resistance to powdery mildew, brown and black rust. Poor resistance to Fusarium. Yield between 560 and 610kg/dc in state variety testing system. Cultivar. Seed.

PI 546463 **origin:** Bulgaria. **origin institute:** Cotton Research Institute, 6200 Tchirpan. **cultivar:** ZAGORKA. **pedigree:** Bezostaya 1/No. 1131. **remarks:** Spike and awns white. Grain amber yellow. Hectoliter mass 80 kg. Kernel weight 45-48g/1000. High resistance to lodging and shattering. Less cold resistant than Bezostaya 1. Highly resistant to Fusarium, brown and black rust. Poor resistance to powdery mildew. Yield between 550 and 600kg/dc in state variety testing system. Cultivar. Seed.

PI 546464 **origin:** Bulgaria. **origin institute:** Cotton Research Institute, 6200 Tchirpan. **cultivar:** PROGRES M-464. Cultivar. Seed.

PI 546465 **origin:** Bulgaria. **origin institute:** Cotton Research Institute, 6200 Tchirpan. **cultivar:** 5521-P. Cultivar. Seed.

PI 546466 **origin:** Bulgaria. **origin institute:** Cotton Research Institute, 6200 Tchirpan. **cultivar:** M-1068. Cultivar. Seed.

PI 546467. *Avena sativa* L. POACEAE

Donated by: Forsberg, R.A., Wisconsin Agr. Exp. Sta., University of Wisconsin, 1575 Linden Drive, Madison, Wisconsin, United States. Received December 10, 1990.

PI 546467-continued

origin: United States. **origin institute:** Wisconsin Agr. Exp. Sta., Wisconsin. **cultivar:** DANE. **pedigree:** Holden/4-Irr./Garland/2/6x-amphiploid/2*C.I.6936/3/Garland/5/Froker/6/Ogle. **other id:** PVP 9100058. **source:** Pending. **group:** PVPO. **remarks:** Maturity early. Yield high. Kernels yellow, nonflorescent. Groat percentage high. Straw strength excellent. Resistant to crown (leaf) rust, including seedling and adult-plant resistance to races 264B, Pc62, Pc58 and Pc59. Resistant to smut. High tolerance to stem rust in Wisconsin tests. Cultivar. Seed.

PI 546468. Brassica napus L. BRASSICACEAE Rape

Donated by: Ameri-Can Pedigreed Seed Co., United States. Received January 07, 1991.

origin: United States. **origin institute:** Ameri-Can Pedigreed Seed Company. **cultivar:** BINGO. **other id:** PVP 9100020. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546469. Brassica napus L. BRASSICACEAE Rape

Donated by: Ameri-Can Pedigreed Seed Co., United States. Received January 07, 1991.

origin: United States. **origin institute:** Ameri-Can Pedigreed Seed Company. **cultivar:** All2. **other id:** PVP 9100021. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546470. Brassica napus L. BRASSICACEAE Rape

Donated by: Ameri-Can Pedigreed Seed Co., United States. Received January 07, 1991.

origin: United States. **origin institute:** Ameri-Can Pedigreed Seed Company. **cultivar:** All4. **other id:** PVP 9100022. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546471. Brassica napus L. BRASSICACEAE Rape

Donated by: Ameri-Can Pedigreed Seed Co., United States. Received January 07, 1991.

PI 546471-continued

origin: United States. **origin institute:** Ameri-Can Pedigreed Seed Company. **cultivar:** D931. **other id:** PVP 9100023. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546472. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Pickseed West, Inc., Tangent, Oregon, United States. Received January 07, 1991.

origin: United States. **origin institute:** Pickseed West, Inc.. **cultivar:** LOW GROW. **other id:** PVP 9100024. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546473. *Phaseolus vulgaris* L. FABACEAE Field bean

Donated by: Rogers Brothers Seed Co., United States. Received January 07, 1991.

origin: United States. **origin institute:** Rogers Brothers Seed Co.. **cultivar:** PT 84354. **other id:** PVP 9100026. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546474. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Sakata Seed American, Inc., United States. Received January 07, 1991.

origin: United States. **origin institute:** Sakata Seed American, Inc.. **cultivar:** SLE 9601. **other id:** PVP 9100027. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546475. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Sakata Seed American, Inc., United States. Received January 07, 1991.

origin: United States. **origin institute:** Sakata Seed American, Inc.. **cultivar:** SLE 9701. **other id:** PVP 9100028. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546476. *Raphanus sativus* L. BRASSICACEAE Radish

Donated by: Alf Christianson Seed Co., United States. Received January 07, 1991.

PI 546476-continued

origin: United States. **origin institute:** Alf
Christianson Seed Company. **cultivar:** RUBY. **other id:**
PVP 9100029. **source:** Pending. **group:** PVPO. **Cultivar.**
Seed.

PI 546477. *Allium cepa* L. LILIACEAE Onion

Donated by: Hortigen B.V., Netherlands. Received January 07, 1991.

origin: Netherlands. **origin institute:** Hortigen B.V..
cultivar: RED PINOY. **other id:** PVP 9100030. **source:**
Pending. **group:** PVPO. **Cultivar.** **Seed.**

PI 546478. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Goertzen Seed Research, United States. Received January
07, 1991.

origin: United States. **origin institute:** Goertzen Seed
Research. **cultivar:** VOYAGER. **other id:** PVP 9100031.
source: Pending. **group:** PVPO. **Cultivar.** **Seed.**

PI 546479. X *Triticosecale* sp. POACEAE Triticale

Donated by: Goertzen Seed Research, United States. Received January
07, 1991.

origin: United States. **origin institute:** Goertzen Seed
Research. **cultivar:** ROUGHRIDER. **other id:** PVP 9100032.
source: Pending. **group:** PVPO. **Cultivar.** **Seed.**

PI 546480. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Dekalb Plant Genetics, United States. Received January
07, 1991.

origin: United States. **origin institute:** Dekalb Plant
Genetics. **cultivar:** CX210. **other id:** PVP 9100033.
source: Pending. **group:** PVPO. **Cultivar.** **Seed.**

PI 546481. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received January
07, 1991.

PI 546481-continued

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** FBLI. **other id:** PVP 9100034.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 546482. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received January 07, 1991.

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** FBLA. **other id:** PVP 9100035.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 546483. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received January 07, 1991.

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** 6F629. **other id:** PVP 9100036.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 546484. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received January 07, 1991.

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** 6M502A. **other id:** PVP 9100037.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 546485. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received January 07, 1991.

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** NL001. **other id:** PVP 9100038.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 546486. *Matthiola incana* (L.) R. Br. BRASSICACEAE Stock

Donated by: American Takii, Inc., United States. Received January 07, 1991.

PI 546486-continued

origin: United States. **origin institute:** American Taki, Inc.. **cultivar:** MIDGET LAVENDER. **other id:** PVP 9100039. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546487. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Cianzio, S.R., Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa, United States; and University of Puerto Rico. **remarks:** Archer Soybean. Received January 07, 1991.

origin: United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011. **cultivar:** Archer. **pedigree:** Developed by transferring Rps1-k, obtained from Williams 82 and Rps6, obtained from PRX54-54 for resistance to *Phytophthora* rot into BSR 101 by backcrossing. BC4F2 plants were intercrossed to obtain F1 plants with both genes. **other id:** PVP 9100040. **source:** Pending. **group:** PVPO. **other id:** CV-290. **source:** Crop Sci. 31(6):1707 1991. **group:** CSR-SOYBEAN. **remarks:** Maturity Group I. Flowers purple. Pubescence gray. Pods at maturity tan. Seeds dull yellow with imperfect hila. Seed yield of 3514 kg ha⁻¹. Lodging resistance good. Plant height 89cm. Seed weight 181mg seed⁻¹. Seed protein 397g kg⁻¹. Seed oil 215g kg⁻¹. Seed quality good. Moderate susceptibility to Fe-deficiency chlorosis on calcareous soil. Shattering resistance good. Resistance to brown stem. Annual. Cultivar. Seed.

PI 546488. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., United States. Received January 07, 1991.

origin: United States. **origin institute:** Rogers Brothers Seed Co.. **cultivar:** GENTRY. **other id:** PVP 9100041. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546489. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, United States. Received January 07, 1991.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** AVANTI. **other id:** PVP 9100042. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546490. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, United States. Received January 07, 1991.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** ETNA. **other id:** PVP 9100043. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546491. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, United States. Received January 07, 1991.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** GOLDMINE. **other id:** PVP 9100044. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546492. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: Sunseeds, Inc., Division of Westseeds, Inc., United States. Received January 07, 1991.

origin: United States. **origin institute:** Sunseeds, Inc., Division of Westseeds, Inc.. **cultivar:** SUN 6095. **other id:** PVP 9100045. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 546493. *Trifolium hybrid* FABACEAE

Donated by: Taylor, N.L., Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky, United States; and Grasslands Division, DSIR, New Zealand. **remarks:** Octoploid Hybrid Clover Germplasm. Received January 23, 1991.

origin: United States. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky 40546. **pedigree:** *Trifolium ambiguum*/*T. repens*. The tetraploid hybrid HYBRID 435 was doubled by use of colchicine. **other id:** GP-95. **source:** Crop Sci. 31(5):1395 1991. **group:** CSR-OTHER LEGUMES. **other id:** 8X-435. **remarks:** Germplasm octoploid ($2n=64$) is morphologically intermediate between parental species, similar to Hybrid 435, and does not exhibit rhizomatous root habit of *T. ambiguum* or stoloniferous habit of *T. repens*. Pollen stainability averages 33.6% and pollen is tetrahedral. Slightly self fertile. Nodulated by field strains of *Rhizobium*. Breeding Material. Cutting.

PI 546494. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cross, H.Z., North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota, United States. **remarks:** ND 265 Maize. Received January 23, 1991.

origin: United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND265. **pedigree:** Eight generations of selfing from NDSA (FS)C2, an improved version of NDSA which was developed by intercrossing eight early maturing inbreds selected for good general combining ability for yield. **other id:** PL-154. **source:** Crop Sci. 31(5):1400 1991. **group:** CSR-MAIZE. **remarks:** Yellow dent inbred line. Plants medium tall. Ears slightly below midpoint of stalk. Ears long, slender. Kernels small, 10-14 rows borne on short shanks. Maturity AES200. Produces hybrids with high yield to maturity ratios. Spring Annual. Breeding Material. Seed.

PI 546495 to 546496. *Beta corolliflora* Zosimovic ex Buttler
CHENOPODIACEAE Sugar beet

Donated by: Seiler, G.J., USDA-ARS, Red River Valley Agric. Res. Ctr., P.O. Box 5677, Fargo, North Dakota, United States. Received December 04, 1990.

PI 546495 **donor id:** BFS/90-03. **origin:** USSR. **collected:** August 24, 1990. **collector id:** BFS/90-03. **locality:** Loam rocky slope of grazed pasture, 1 km NE of Razdon, Yerevan District. **latitude:** 40 deg. 28 min. N. **longitude:** 44 deg. 48 min. E. **elevation:** 1900m. **remarks:** Estimated population 60 plants in 10,000 square meters. 41 plants of a single type collected using bulk sampling method. Wild. Seed.

PI 546496 **donor id:** BFS/90-18. **origin:** USSR. **collected:** August 27, 1990. **collector id:** BFS/90-18. **locality:** Sand and loam on disturbed area by ruins, mixed in grassland (Steppe) protected from grazing, Aragatas Monastery Pachlavunie, Ashtaraksij District. **latitude:** 40 deg. 28 min. N. **longitude:** 44 deg. 09 min. E. **elevation:** 2160m. **remarks:** Estimated population 40 plants in 5000 square meters. 25 plants of a single type collected using bulk and single plant sampling methods. Wild. Seed.

PI 546497 to 546498. *Beta macrorhiza* Steven CHENOPODIACEAE Sugar beet

Donated by: Seiler, G.J., USDA-ARS, Red River Valley Agric. Res. Ctr., P.O. Box 5677, Fargo, North Dakota, United States. Received December 04, 1990.

PI 546497 to 546498-continued

PI 546497 **donor id:** BFS/90-32. **origin:** USSR. **collected:** August 30, 1990. **collector id:** BFS/90-32. **locality:** Loam on steep rocky slope of Steepe, heavily grazed, 1 km from Mikra, Achtunskij District, Daghestan ASSR. **latitude:** 41 deg. 17 min. N. **longitude:** 47 deg. 53 min. E. **elevation:** 1200m. **remarks:** Estimated population 100 plants growing in 10,000 square meters. 50 plants of a single type collected using a bulk sampling method. Produced good seed. Wild. Seed.

PI 546498 **donor id:** BFS/90-48. **origin:** USSR. **collected:** September 03, 1990. **collector id:** BFS/90-48. **locality:** Loam on slope of the Tschiragtschaij river, steep slope up from river in field, 3km from Dulduug, Agul District, Daghestan ASSR. **latitude:** 41 deg. 45 min. N. **longitude:** 47 deg. 49 min. E. **elevation:** 1610m. **remarks:** Estimated population 20 plants growing in 2500 square meters. 16 plants of a single type collected using single plant sampling method. Wild. Seed.

PI 546499. *Beta vulgaris* L. CHENOPODIACEAE Sugar beet

Donated by: Seiler, G.J., USDA-ARS, Red River Valley Agric. Res. Ctr., P.O. Box 5677, Fargo, North Dakota, United States. Received December 04, 1990.

donor id: BFS/90-45. **origin:** USSR. **collected:** September 02, 1990. **collector id:** BFS/90-45. **locality:** Purchased at local market, Derbent, Derbent District, Daghestan ASSR. **latitude:** 42 deg. 03 min. N. **longitude:** 48 deg. 18 min. E. Wild. Seed.

PI 546500. *Beta vulgaris* var. *macrocarpa* (Guss.) Moq. CHENOPODIACEAE Sugar beet

Donated by: N.I. Vavilov Institute, Leningrad, USSR. Received December 04, 1990.

donor id: VIR-1462. **origin:** USSR. **other id:** Ames 13508. **group:** Ames. Cultivated. Seed.

PI 546501 to 546502. *Beta trigyna* Waldst. & Kit. CHENOPODIACEAE Sugar beet

Donated by: N.I. Vavilov Institute, Leningrad, USSR. Received December 04, 1990.

PI 546501 **donor id:** VIR-118. **origin:** USSR. Cultivated. Seed.

PI 546501 to 546502-continued

PI 546502 **donor id:** VIR-1784. **origin:** USSR. **other id:** Ames 13510.
group: Ames. **locality:** Krym (Crimea). Cultivated.
Seed.

PI 546503 to 546507. *Beta vulgaris* L. CHENOPODIACEAE Sugar beet

Donated by: N.I. Vavilov Institute, Leningrad, USSR. Received
December 04, 1990.

PI 546503 **donor id:** VIR-117. **origin:** USSR. **cultivar:** AFUN
KARAJISSARSKAJA. **other id:** Ames 13511. **group:** Ames.
Cultivar. Seed.

PI 546504 **donor id:** VIR-648. **origin:** USSR. **cultivar:**
TURKESTANSKAJA. **other id:** Ames 13512. **group:** Ames.
Cultivated. Seed.

PI 546505 **donor id:** VIR-951. **origin:** USSR. **cultivar:** ABHAZSKAJA
KRASNAJA. **other id:** Ames 13513. **group:** Ames. Cultivar.
Seed.

PI 546506 **donor id:** VIR-1315. **origin:** USSR. **cultivar:**
BADAHSANSKAJA. **other id:** Ames 13514. **group:** Ames.
Cultivar. Seed.

PI 546507 **donor id:** VIR-1419. **origin:** USSR. **cultivar:**
CARDZUJSKAJA. **other id:** Ames 13515. **group:** Ames.
Cultivar. Seed.

PI 546508 to 546534. *Beta vulgaris* subsp. *maritima* (L.) Arcang.
CHENOPODIACEAE Sugar beet

Donated by: Cortessi, H., Hellenic Sugar Industry, Thessaloniki,
Greece. Received December 04, 1990.

PI 546508 **donor id:** 045/82. **origin:** Greece. **other id:** WB 769.
other id: Ames 14365. **group:** Ames. Wild. Seed.

PI 546509 **donor id:** 007/82. **origin:** Greece. **other id:** WB 770.
other id: Ames 14366. **group:** Ames. Wild. Seed.

PI 546510 **donor id:** 041/82. **origin:** Greece. **other id:** WB 771.
other id: Ames 14367. **group:** Ames. Wild. Seed.

PI 546511 **donor id:** 022/82. **origin:** Greece. **other id:** WB 772.
other id: Ames 14368. **group:** Ames. Wild. Seed.

PI 546512 **donor id:** 009/82. **origin:** Greece. **other id:** WB 773.
other id: Ames 14369. **group:** Ames. Wild. Seed.

PI 546508 to 546534-continued

- PI 546513 donor id: S12/81. origin: Italy. other id: WB 774.
other id: Ames 14370. group: Ames. Wild. Seed.
- PI 546514 donor id: S21/81. origin: Italy. other id: WB 775.
other id: Ames 14371. group: Ames. Wild. Seed.
- PI 546515 donor id: 001/81. origin: Greece. other id: WB 776.
other id: Ames 14372. group: Ames. Wild. Seed.
- PI 546516 donor id: 002/81. origin: Greece. other id: WB 777.
other id: Ames 14373. group: Ames. Wild. Seed.
- PI 546517 donor id: 007/81. origin: Greece. other id: WB 778.
other id: Ames 14374. group: Ames. Wild. Seed.
- PI 546518 donor id: 037/79. origin: Greece. other id: WB 779.
other id: Ames 14375. group: Ames. locality: Samos
Island. Wild. Seed.
- PI 546519 donor id: 081/79. origin: Greece. other id: WB 780.
other id: Ames 14376. group: Ames. locality: Limnos
Island. Wild. Seed.
- PI 546520 donor id: 016/79. origin: Greece. other id: WB 781.
other id: Ames 14377. group: Ames. locality: Kos (Kos
Island). Wild. Seed.
- PI 546521 donor id: 071/79. origin: Greece. other id: WB 782.
other id: Ames 14378. group: Ames. locality: Chios
(Khios Is.). Wild. Seed.
- PI 546522 donor id: 027/79. origin: Greece. other id: WB 783.
other id: Ames 14379. group: Ames. locality: Leros
(Leros Is.). Wild. Seed.
- PI 546523 donor id: 002/79. origin: Greece. other id: WB 784.
other id: Ames 14380. group: Ames. locality: Rodes
(Rodhos, Rhodes) Island. Wild. Seed.
- PI 546524 donor id: S11/81. origin: Italy. other id: WB 790.
other id: Ames 14386. group: Ames. Wild. Seed.
- PI 546525 donor id: S19/81. origin: Italy. other id: WB 791.
other id: Ames 14387. group: Ames. Wild. Seed.
- PI 546526 donor id: S25/81. origin: Italy. other id: WB 792.
other id: Ames 14388. group: Ames. Wild. Seed.
- PI 546527 donor id: S28/81. origin: Italy. other id: WB 793.
other id: Ames 14389. group: Ames. Wild. Seed.

PI 546508 to 546534-continued

- PI 546528 donor id: S54/81. origin: Italy. other id: WB 794.
other id: Ames 14390. group: Ames. Wild. Seed.
- PI 546529 donor id: S59/81. origin: Italy. other id: WB 795.
other id: Ames 14391. group: Ames. Wild. Seed.
- PI 546530 donor id: S96/81. origin: Italy. other id: WB 796.
other id: Ames 14392. group: Ames. Wild. Seed.
- PI 546531 donor id: S99/81. origin: Italy. other id: WB 797.
other id: Ames 14393. group: Ames. Wild. Seed.
- PI 546532 donor id: 050/83. origin: Greece. other id: WB 798.
other id: Ames 14394. group: Ames. locality: Trikala,
Thessaly. Wild. Seed.
- PI 546533 donor id: 052/83. origin: Greece. other id: WB 799.
other id: Ames 14395. group: Ames. locality: Karditsa,
Thessaly. Wild. Seed.
- PI 546534 donor id: TUN 109/84. origin: Tunisia. other id: WB
800. other id: Ames 14396. group: Ames. Wild. Seed.

PI 546535 to 546539. *Beta vulgaris* L. CHENOPODIACEAE Sugar beet

Donated by: Cortessi, H., Hellenic Sugar Industry, Thessaloniki,
Greece. Received December 04, 1990.

- PI 546535 donor id: 021/80. origin: Greece. other id: WB 785.
other id: Ames 14381. group: Ames. locality: Zakynthos
(Zante), Ionian Islands. Wild. Seed.
- PI 546536 donor id: 076/80. origin: Greece. other id: WB 786.
other id: Ames 14382. group: Ames. locality: Astakos,
Central Greece. Wild. Seed.
- PI 546537 donor id: 069/80. origin: Greece. other id: WB 787.
other id: Ames 14383. group: Ames. locality: Zakynthos
(Zante) Ionian Islands. Wild. Seed.
- PI 546538 donor id: 035/81. origin: Greece. other id: WB 788.
other id: Ames 14384. group: Ames. locality: Patra,
Peloponnese. Wild. Seed.
- PI 546539 donor id: 061/81. origin: Greece. other id: WB 789.
other id: Ames 14385. group: Ames. locality: Patra,
Peloponnese. Wild. Seed.

PI 546540 to 546547. *Aeschynomene abyssinica* (A. Rich.) Vatke FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

- PI 546540 **donor id:** 2356. **origin:** UNKNOWN. **collected:** March 15, 1978. **other id:** CPI 38274. Wild. Seed.
- PI 546541 **donor id:** 2357. **origin:** UNKNOWN. **collected:** March 15, 1978. **other id:** CPI 52331. Wild. Seed.
- PI 546542 **donor id:** 2992. **origin:** Malawi. **collected:** August 07, 1978. **other id:** CPI 66392. Wild. Seed.
- PI 546543 **donor id:** 3002. **origin:** Africa. **collected:** August 1978. **collector id:** 3002. **locality:** Sangea District, Tanganyika. Wild. Seed.
- PI 546544 **donor id:** 4225. **origin:** UNKNOWN. Wild. Seed.
- PI 546545 **donor id:** 6257. **origin:** Africa. **collected:** August 24, 1983. **other id:** OPI 2645397. **locality:** Sandum's Bridge, 9.6km E of Kitale, 2000 WET Savannah, Kitale, Kenya. **remarks:** Mature seeds. Wild. Seed.
- PI 546546 **donor id:** 6258. **origin:** Ethiopia. **collected:** August 24, 1983. **other id:** OPI 2520137. **locality:** Omonadda road turnoff at Little Glubbie River, 38km NE Jimma Jimma, 28km S between Nadda village and Omo, Kefa Province. Wild. Seed.
- PI 546547 **donor id:** 6273. **origin:** Ethiopia. **collected:** August 24, 1983. **other id:** OPI 2559079. **locality:** S. highlands, woodland on Mlalo road, 38.4km E Iringa-Mbeya Road, Mlolo District. **remarks:** Shrub 1.5-2m tall. Flowers used for honey. Wild. Seed.

PI 546548. *Aeschynomene acapulcensis* Rose FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 4389. **origin:** Mexico. **collected:** March 03, 1985. **collector id:** 056B. **locality:** 3km W of intersection Hwy 185 and 200 at Salina Cruz, Oaxaca. **latitude:** 16 deg. 10 min. N. **longitude:** 95 deg. 12 min. W. **elevation:** 150m. **remarks:** Annual rainfall 1063mm. **Associated species:** *A. pinetorum*, *C. pascuorum*, *M. atropurpureum*, *Stylosanthes* sp. Wild. Seed.

PI 546549. *Aeschynomene rudis* Benth. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 5224. **origin:** Mexico. **collected:** November 12, 1980. **other id:** CPI 91327. **other id:** MEX 1107.
locality: 6km W of Tonala, Chiapas State. **latitude:** 16 deg. 00 min. N. **elevation:** 20m. **remarks:** Annual rainfall 1600. Wild. Seed.

PI 546550 to 546555. *Aeschynomene villosa* Poiret FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546550 **donor id:** 3400. **origin:** Mexico. **collected:** March 13, 1980. **collector id:** 36B. **other id:** CPI 93650.
locality: Dry area, near water hole by small bridge at side of road, 216km S of Acapulco, Oaxaca State.
latitude: 16 deg. 23 min. N. **longitude:** 98 deg. 22 min.. **elevation:** 200m. **remarks:** Annual rainfall 1200. Wild. Seed.

PI 546551 **donor id:** 5180. **origin:** Mexico. **collected:** September 08, 1980. **collector id:** 5180. **other id:** OPI 174965.
locality: 25.6km E of Ciudad del Maiz, San Luis Potosi State. **elevation:** 1400m. **remarks:** Annual rainfall 1400mm. Received from University of Arizona. Wild. Seed.

PI 546552 **donor id:** 5194. **origin:** Mexico. **collected:** September 08, 1980. **collector id:** 5194. **other id:** CPI 91113.
other id: MEX 951. **locality:** 41km NE of Concordia on road to Durango, Concordia, Sinaloa State. **latitude:** 23 deg. 00 min. N. **elevation:** 1125m. **remarks:** Annual rainfall 1100mm. Received from University of Arizona. Wild. Seed.

PI 546553 **donor id:** 5195. **origin:** Mexico. **collected:** September 08, 1980. **collector id:** 5195. **other id:** CPI 91107.
other id: MEX 945. **locality:** 21km NE of Concordia, Sinaloa State. **latitude:** 23 deg. 00 min. N. **elevation:** 360m. **remarks:** Annual rainfall 1000mm. Received from University of Arizona. Wild. Seed.

PI 546554 **donor id:** 5199. **origin:** Mexico. **collected:** September 08, 1980. **collector id:** 5199. **other id:** CPI 91132.
other id: MEX 970. **locality:** Limestone, clay loam, 13.6km W of Teloloapan on road to Ciudad, Teloloapan, Guerrero State. **latitude:** 18 deg. 00 min. N. **elevation:** 1450m. **remarks:** Annual rainfall 1150mm. Soil pH 8.0. Received from the University of Arizona. Wild. Seed.

PI 546550 to 546555-continued

PI 546555 donor id: 5201. origin: Mexico. collected: September 12, 1980. collector id: 5201. other id: CPI 91154. other id: MEX 992. locality: 36.8km W of Teloloapan on road to Ciudad, Teloloapan, Guerrero State. latitude: 18 deg. 00 min. N. elevation: 1100m. remarks: Annual rainfall 1000mm. Wild. Seed.

PI 546556. *Aeschynomene afraspera* Leonard FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 4164. origin: Senegal. collected: August 17, 1984. locality: D. Alazard, Office de la Recherche Scientifique, Centre Orstom de Dakar (Boite Postale N 1386 Dalar, Republic of Senegal). received as: *A. afraspera*. Wild. Seed.

PI 546557 to 546559. *Aeschynomene amorphoides* (S. Watson) Rose ex Robinson FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546557 donor id: 5154. origin: Mexico. collected: September 08, 1980. collector id: 5154. other id: OPI 183223. locality: Panuco, Sinaba. remarks: Single shrub 3m tall. Wild. Seed.

PI 546558 donor id: 5162. origin: Mexico. collected: September 08, 1980. collector id: 5162. other id: OPI 218772. locality: Cerros Al H De San Patricio, Desual Hotel El Doral, Jalisco State. elevation: 85m. remarks: Received from University of Arizona. Wild. Seed.

PI 546559 donor id: 5183. origin: Mexico. collected: September 08, 1980. collector id: 5183. locality: Rocky slope, 3km NNE of Rosario, Rosario. remarks: Small tree shrub type. Received from University of Arizona. Wild. Seed.

PI 546560. *Aeschynomene aspera* L. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 4231. origin: Sri Lanka. collected: December 10, 1984. other id: M2295916. locality: Near Meyet WEWA, Puhuna National Park. elevation: 5m. Wild. Seed.

PI 546561. *Aeschynomene bracteosa* Welw. ex Baker FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 3004. **origin:** Rhodesia. **collected:** August 1978. **collector id:** 3004. **locality:** Kalambo Falls, Ufipa, Northern Rhodesia. **elevation:** 13m. Wild. Seed.

PI 546562 to 546619. *Aeschynomene brasiliana* (Poiret) DC. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546562 **donor id:** 1707. **origin:** Brazil. **collected:** January 24, 1974. **collector id:** 1707. **locality:** Fazenda of Sr. Luis, Orlandia, Sao Paulo State. Wild. Seed.

PI 546563 **donor id:** 2009. **origin:** Brazil. **collected:** 1976. **collector id:** 2009. **other id:** CPI 93592. **other id:** MI3019930. **locality:** Fazenda Corrego Azul, Brazilandia, Mato Grosso State. **latitude:** 21 deg. 25 min. S. **longitude:** 52 deg. 05 min. W. Wild. Seed.

PI 546564 **donor id:** 2794. **origin:** Colombia. **collected:** May 1978. **other id:** CPI 93627. **other id:** CIAT 3166. **locality:** Meta. Wild. Seed.

PI 546565 **donor id:** 2844. **origin:** Brazil. **collected:** May 1978. **other id:** CPI 93630. **other id:** CIAT 7391. **locality:** Monagas. Wild. Seed.

PI 546566 **donor id:** 2870. **origin:** Brazil. **collected:** May 1978. **other id:** CIAT 9664. **locality:** Mato Grosso State. Wild. Seed.

PI 546567 **donor id:** 2879. **origin:** Brazil. **collected:** May 1978. **other id:** CPI 93637. **other id:** CIAT 9674. **locality:** Mato Grosso State. Wild. Seed.

PI 546568 **donor id:** 2886. **origin:** Brazil. **collected:** May 1978. **other id:** CIAT 9683. **locality:** Mato Grosso State. Wild. Seed.

PI 546569 **donor id:** 2887. **origin:** Brazil. **collected:** May 1978. **other id:** CIAT 9684. **locality:** Mato Grosso State. Wild. Seed.

PI 546570 **donor id:** 2895. **origin:** Colombia. **collected:** May 1978. **other id:** CIAT 9811. **locality:** Mato Grosso State. Wild. Seed.

PI 546562 to 546619-continued

- PI 546571 donor id: 3167. origin: Panama. collected: November 20, 1978. other id: CIAT 7021. locality: Chiriqui State. Wild. Seed.
- PI 546572 donor id: 3170. origin: Venezuela. collected: November 20, 1978. other id: CIAT 7276. locality: Anzoategui State. Wild. Seed.
- PI 546573 donor id: 3174. origin: Venezuela. collected: November 20, 1978. other id: CIAT 7392. locality: Monagas State. Wild. Seed.
- PI 546574 donor id: 3175. origin: Venezuela. collected: November 20, 1978. other id: CPI 93595. other id: CIAT 7249. locality: Guarico State. Wild. Seed.
- PI 546575 donor id: 3179. origin: Venezuela. collected: November 20, 1978. other id: CIAT 7256. locality: Monagas State. Wild. Seed.
- PI 546576 donor id: 3180. origin: Venezuela. collected: November 20, 1978. other id: CPI 93643. other id: CIAT 7261. locality: Anzoategui State. Wild. Seed.
- PI 546577 donor id: 3181. origin: Venezuela. collected: November 20, 1978. other id: CIAT 7393. locality: Bolivar State. Wild. Seed.
- PI 546578 donor id: 3183. origin: Venezuela. collected: November 20, 1978. other id: CIAT 7279. locality: Guarico State. Wild. Seed.
- PI 546579 donor id: 3184. origin: Colombia. collected: November 20, 1978. other id: CIAT 7390. locality: Vichada State. Wild. Seed.
- PI 546580 donor id: 3189. origin: Brazil. collected: November 20, 1978. other id: CIAT 9102. locality: Para State. Wild. Seed.
- PI 546581 donor id: 3194. origin: Brazil. collected: November 20, 1978. other id: CIAT 9678. locality: Mata Grosso State. Wild. Seed.
- PI 546582 donor id: 3198. origin: Brazil. collected: November 20, 1978. other id: CIAT 9681. locality: Mata Grosso State. Wild. Seed.
- PI 546583 donor id: 3199. origin: Panama. collected: November 20, 1978. other id: CIAT 9999. locality: Cocle State. Wild. Seed.

PI 546562 to 546619-continued

- PI 546584 donor id: 3212. origin: Colombia. collected: April 01, 1979. other id: CIAT 7764. locality: Meta State. Wild. Seed.
- PI 546585 donor id: 3213. origin: Colombia. collected: April 01, 1979. other id: CIAT 7765. locality: Meta State. Wild. Seed.
- PI 546586 donor id: 3223. origin: Brazil. collected: April 01, 1979. other id: CIAT 7574. locality: Bahia State. Wild. Seed.
- PI 546587 donor id: 3227. origin: Brazil. collected: April 01, 1979. other id: CIAT 7579. locality: Bahia State. Wild. Seed.
- PI 546588 donor id: 3228. origin: Brazil. collected: April 01, 1979. other id: CIAT 7580. locality: Bahia State. Wild. Seed.
- PI 546589 donor id: 3232. origin: Brazil. collected: April 01, 1979. other id: CIAT 7589. locality: Bahia State. Wild. Seed.
- PI 546590 donor id: 3233. origin: Brazil. collected: April 01, 1979. other id: CIAT 7590. locality: Bahia State. Wild. Seed.
- PI 546591 donor id: 3499. origin: Mexico. collected: March 25, 1980. collector id: 67B. locality: Next to the creek, 5km from intersection S of Chonpalpa, Tabasco State. latitude: 17 deg. 37 min. N. longitude: 93 deg. 31 min. W. Wild. Seed.
- PI 546592 donor id: 3559. origin: Mexico. collected: March 31, 1980. collector id: 88B. locality: Sand dunes, 10km W of Lerdo, 1.2km E of road marker 67km Hwy 180 on way to Veracruz, 1 km from Gulf, Veracruz State. latitude: 18 deg. 41 min. N. longitude: 95 deg. 34 min. W. elevation: 70m. Wild. Seed.
- PI 546593 donor id: 3679. origin: UNKNOWN. collected: May 13, 1980. other id: CIAT 7761. Wild. Seed.
- PI 546594 donor id: 3681. origin: Colombia. collected: May 13, 1980. other id: CIAT 7769. locality: Vichada State. Wild. Seed.
- PI 546595 donor id: 3684. origin: Brazil. collected: May 13, 1980. other id: CIAT 7586. locality: Bahia State. Wild. Seed.

PI 546562 to 546619-continued

- PI 546596 **donor id:** 4549. **origin:** Mexico. **collected:** March 11, 1985. **collector id:** 108A. **locality:** 40km N of Ocosingo road, San Cristobal, Ocosingo, Chiapas State. **latitude:** 17 deg. 90 min. N. **longitude:** 92 deg. 08 min. W. **elevation:** 850m. **remarks:** Annual rainfall 1810mm. Associated species: *Desmodium* sp., *Teramnus uncinatus*, *S. guianensis*. Wild. Seed.
- PI 546597 **donor id:** 4721. **origin:** Costa Rica. **collected:** February 02, 1985. **other id:** CR 112733. **locality:** Interamerican Hwy 2, 218km from Buenos Aires, Puntarenas State. **latitude:** 9 deg. 58 min. N. **longitude:** 84 deg. 50 min. W. **elevation:** 200m. **remarks:** Annual rainfall 3872mm. Wild. Seed.
- PI 546598 **donor id:** 4762. **origin:** Costa Rica. **collected:** April 30, 1986. **collector id:** 30-2. **locality:** Hwy 2, S of San Isidro Del General, 159km marker, San Isidro, San Jose State. **latitude:** 9 deg. 15 min. N. **longitude:** 83 deg. 31 min. W. **elevation:** 550m. **remarks:** Annual rainfall 2944mm. Identified by V.E. Rudd. Plant similar to *A. evenia*. Associated species: *S. guianensis*, *Zornia* sp., *C. pubescens* and *D. barbatum*. Wild. Seed.
- PI 546599 **donor id:** 6448. **origin:** Costa Rica. **collected:** February 23, 1988. **collector id:** 23/1D. **locality:** Road marker KM159, San Isidro road to Buenos Aires. **latitude:** 9 deg. 15 min. N. **longitude:** 83 deg. 32 min. W. **elevation:** 550m. **remarks:** Associated species: *D. barbatum*, *Zornia* species, *S. guianensis*, *C. macrocarpum*, *Galactia* species, *T. uncinatus*. Wild. Seed.
- PI 546600 **donor id:** 6480. **origin:** Costa Rica. **collected:** February 25, 1988. **collector id:** 25/3A. **locality:** 21.6km W of La Union road San Vito to Buenos Aires or 8km of La Amistad, La Amistad, Puntarenas State. **elevation:** 375m. **remarks:** Associated species: *Desmodium barbatum*, *Styloscanthes guianensis*. Wild. Seed.
- PI 546601 **donor id:** 6579. **origin:** Costa Rica. **collected:** February 06, 1989. **collector id:** 06-7. **locality:** 4.3km N of Pitahaya road to Aranjuez, Pitahaya, Puntarenas State. **latitude:** 10 deg. 03 min. N. **longitude:** 84 deg. 48 min. W. **elevation:** 100m. **remarks:** Annual rainfall 1598mm. Associated species: *C. plumieri*. Plants almost dead. Wild. Seed.

PI 546562 to 546619-continued

- PI 546602 donor id: 2017. origin: Costa Rica. collected: May 16, 1976. collector id: 06-7. other id: CPI 93593. locality: Fazenda parana, 20km S of Puerto, across from panorama on W side of Parana River. Low land subject to high water tables and possible short flood periods. latitude: 21 deg. 23 min. S. longitude: 51 deg. 55 min. W. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546603 donor id: 2790. origin: Colombia. collected: May 1978. other id: CIAT 3127. locality: Vichada State. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546604 donor id: 2792. origin: Colombia. collected: May 1978. other id: CIAT 3142. locality: Vichada State. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546605 donor id: 2801. origin: Panama. collected: May 1978. other id: CIAT 7002. locality: Cocle. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546606 donor id: 2802. origin: Panama. collected: May 1978. other id: CIAT 7003. locality: Cocle. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546607 donor id: 2806. origin: Panama. collected: May 1978. other id: CIAT 7007. locality: Los Santos State. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546608 donor id: 2810. origin: Panama. collected: May 1978. other id: CIAT 7011. locality: Herrera State. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546609 donor id: 2818. origin: Panama. collected: May 1978. other id: CIAT 7020. locality: Chiriqui State. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546610 donor id: 2820. origin: Panama. collected: May 1978. other id: CIAT 7023. locality: Chiriqui State. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546611 donor id: 2836. origin: Venezuela. collected: May 1978. other id: CPI 93594. other id: CIAT 7263. locality: Bolivar State. received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546612 donor id: 2843. origin: Venezuela. collected: May 1978. other id: CIAT 7391. locality: Monagas State. received as: A. brasiliana var. brasiliana. Wild. Seed.

PI 546562 to 546619-continued

- PI 546613 donor id: 2865. origin: Colombia. collected: May 1978.
other id: CIAT 9566. locality: Valle Del Cauca, Cauca
State. received as: A. brasiliana var. brasiliana.
Wild. Seed.
- PI 546614 donor id: 2876. origin: Brazil. collected: May 1978.
other id: CIAT 9671. locality: Mato Grosso State.
received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546615 donor id: 2878. origin: Brazil. collected: May 1978.
other id: CIAT 9673. locality: Mato Grosso State.
received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546616 donor id: 2881. origin: Brazil. collected: May 1978.
other id: CIAT 9676. locality: Mato Grosso State.
received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546617 donor id: 2882. origin: Brazil. collected: May 1978.
other id: CIAT 9677. locality: Mato Grosso State.
received as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546618 donor id: 2893. origin: Brazil. collected: May 1978.
other id: CIAT 9692. locality: Goias State. received
as: A. brasiliana var. brasiliana. Wild. Seed.
- PI 546619 donor id: 2909. origin: Colombia. collected: May 1978.
other id: CIAT 9928. locality: Magdalena State.
received as: A. brasiliana var. brasiliana. Wild. Seed.

PI 546620. *Aeschynomene brevifolia* L. ex Poiret FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft.
Pierce, Florida, United States. Received August 1990.

donor id: 2359. origin: UNKNOWN. other id: CIAT 52335.
Wild. Seed.

PI 546621. *Aeschynomene brevipes* Benth. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft.
Pierce, Florida, United States. Received August 1990.

donor id: 3678. origin: Brazil. collected: May 13,
1980. other id: CPI 93678. other id: CIAT 7472.
locality: Sao Paulo State. Wild. Seed.

PI 546622 to 546625. *Aeschynomene ciliata* J. Vogel FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546622 **donor id:** 2062. **origin:** Costa Rica. **collected:** May 31, 1976. **collector id:** 106. **other id:** CPI 93597.
locality: Good clay loam soils, high in CA, flooded periodically, 24km from Limon, Saborio. **latitude:** 10 deg. 00 min. N. **longitude:** 83 deg. 10 min. W.
elevation: 10m. **remarks:** Annual rainfall 4653mm. Hairy pods. Tender foliage, leafy. Eaten by cattle. Wild. Seed.

PI 546623 **donor id:** 3505. **origin:** Mexico. **collected:** March 25, 1980. **collector id:** 68C. **other id:** CPI 93666.
locality: College of Tropical Agr., Tabasco State. **latitude:** 17 deg. 59 min. N. **longitude:** 93 deg. 27 min. W. **remarks:** Identified by Velva E. Rudd. Wild. Seed.

PI 546624 **donor id:** 5511. **origin:** Belize. **collected:** April 05, 1981. **collector id:** 5511. **locality:** Flooded area in rainy season, soil now cracking, low Savanna area, 8km W from San Antonio and Southern Hwy Intersection near Punta Gorda. **remarks:** Associated species: *Vigna* purple, and yellow (*V. luteola*) flowers. Plants wide spread from CA Stones to San Antonio, Blue Creek and Punta Gorda. Annual. Wild. Seed.

PI 546625 **donor id:** 6463. **origin:** Costa Rica. **collected:** February 24, 1988. **collector id:** 24/4. **locality:** 4.9km W of La Cuesta old unpaved road to Laurel, La Cuesta, Puntarenas. **latitude:** 8 deg. 28 min. N. **longitude:** 82 deg. 52 min. W. **elevation:** 10m. **remarks:** Associated species: Yellow flowered *vigna*. Wild. Seed.

PI 546626 to 546634. *Aeschynomene compacta* Rose FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546626 **donor id:** 4317. **origin:** Mexico. **collected:** February 26, 1985. **collector id:** 031A. **locality:** 2.5km NE from intersection San Lorenzo Albarradas toward Santa Maria Albarrados road to Milta, Santa Maria Albarrados, Oaxaca State. **latitude:** 16 deg. 55 min. N. **longitude:** 96 deg. 14 min. W. **elevation:** 1640m. **remarks:** Annual rainfall 606mm. Associated species: *Leucaena esculenta*. Wild. Seed.

PI 546626 to 546634-continued

- PI 546627 donor id: 4376. origin: Mexico. collected: March 03, 1985. collector id: 051D. locality: Roadside cut, 3.3km from Hwy 200 intersection of road to Puerto Angel, Oaxaca State. latitude: 15 deg. 43 min. N. longitude: 96 deg. 29 min. W. elevation: 175m. remarks: Annual rainfall 700mm. Associated species: *M. atropurpureum*, *Desmanthus virgatus*, *Desmodium* sp. Wild. Seed.
- PI 546628 donor id: 4378. origin: Mexico. collected: March 03, 1985. collector id: 052A. locality: Roadside cut, growing out of rocks, 4.7km S of intersection of Hwy 200 and 175 road to Puerto Angel, Oaxaca State. latitude: 15 deg. 43 min. N. longitude: 96 deg. 29 min. W. elevation: 110m. remarks: Annual rainfall 700mm. Identified by V. E. Rudd. Pod damage. Immature fruit brown-purple turning green then paper brown. Associated species: unknown species. Wild. Seed.
- PI 546629 donor id: 4380. origin: Mexico. collected: March 03, 1985. collector id: 053A. locality: 5.6km S of intersection of Hwy 200 and Hwy 175 to Puerto Angel, Oaxaca State. latitude: 15 deg. 41 min. N. longitude: 96 deg. 29 min. W. elevation: 100m. remarks: Annual rainfall 700mm. Identified by V. E. Rudd. Associated species: *Leucaena macrophylla*. Wild. Seed.
- PI 546630 donor id: 4394. origin: Mexico. collected: March 04, 1985. collector id: 058A. locality: On roadside, heavily grazed, 1.3km from La Ventosa road to Salina Cruz, La Ventosa, Oaxaca State. latitude: 16 deg. 10 min. N. longitude: 95 deg. 08 min. W. elevation: 10m. remarks: Annual rainfall 1063mm. Identified by V.E. Rudd. Associated species: *Gliricidia sepium*. Wild. Seed.
- PI 546631 donor id: 4395. origin: Mexico. collected: March 04, 1985. collector id: 058B. locality: Growing out of rock, 1.3km from La Ventosa road to Salina Cruz, La Ventosa, Oaxaca State. latitude: 16 deg. 10 min. N. longitude: 95 deg. 08 min. W. elevation: 10m. remarks: Annual rainfall 1063mm. Identified by V.E. Rudd. Associated species: *Gliricidia sepium*. Wild. Seed.
- PI 546632 donor id: 4403. origin: Mexico. collected: March 04, 1985. collector id: 063A. locality: Rocky road cut near Benito Juarez Dam, 5km from Jalapa De Marquez Hwy 190 near Tehuantepec, Hakaoa De Marquez, Oaxaca State. latitude: 16 deg. 25 min. N. longitude: 95 deg. 24 min. W. elevation: 150m. remarks: Annual rainfall 1063mm. Pods web type damage. Associated species: *Gliricidia* sp. Wild. Seed.

PI 546626 to 546634-continued

PI 546633 donor id: 4687. origin: Mexico. collected: March 03, 1985. collector id: 052C. locality: 4.7km S of intersection of Hwy 200 and 175 road to Puerto Angel, Oaxaca State. latitude: 15 deg. 43 min. N. longitude: 96 deg. 29 min. W. elevation: 110m. remarks: Annual rainfall 700mm. Shrub to 2m tall. Associated species Tephrosia sp. Wild. Seed.

PI 546634 donor id: 6379. origin: Mexico. collected: February 16 1985. collector id: 16/3B. locality: 18.3km N of Liberia-Ruta-Ruta 3 intersection, Liberia, Guanacaste State. latitude: 10 deg. 44 min. N. longitude: 85 deg 19 min. W. elevation: 675m. remarks: Shrub 2m tall. Many flowers and immature seeds. Associated species: Teramnua uncinatua. Wild. Seed.

PI 546635 to 546638. *Aeschynomene denticulata* Rudd FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546635 donor id: 2030. origin: Mexico. collected: May 19, 1985. collector id: 2030. locality: 36km from Miranda on road to Corumba, S entrance, opposite main gate of 12 Brothers, Dos Hermaos Fazenda, about 1 km E into Pantanal, Miranda, Mato Grosso State. latitude: 20 deg. 07 min. S. longitude: 56 deg. 43 min. W. remarks: Plant 1 m tall. Leaf hairy type. Pods like *A. montevidensis*. Wild. Seed.

PI 546636 donor id: 3654. origin: Argentina. collected: March 16, 1977. other id: CPI 78348. locality: 10km W of Salta. latitude: 23 deg. 00 min. S. elevation: 1350m. remarks: Annual rainfall 700mm. Wild. Seed.

PI 546637 donor id: 3656. origin: Argentina. collected: April 04, 1977. collector id: 3656. other id: CPI 78351. locality: 32km from San Roque on road to Mercedes. latitude: 29 deg. 00 min. S. elevation: 80m. remarks: Annual rainfall 1150mm. Soil pH 6.5. Wild. Seed.

PI 546638 donor id: 4122. origin: Costa Rica. collected: October 23, 1983. collector id: 23-4A. locality: 1.4km W of Tollgate road San Jose-Santa Ana, San Jose State. latitude: 9 deg. 55 min. N. longitude: 85 deg. 08 min. W. elevation: 1170m. remarks: Annual rainfall 1987mm. Wild. Seed.

PI 546639. *Aeschynomene elaphroxylon* (Guillemin & Perrottet) Taubert
FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft.
Pierce, Florida, United States. Received August 1990.

donor id: 3003. **origin:** Africa. **collected:** August 1978.
collector id: 3003. **locality:** Lake Victoria, Mwanza,
Tanganyika. **elevation:** 1250m. **remarks:** Tree 6m tall.
Wild. Seed.

PI 546640 to 546661. *Aeschynomene elegans* Schldl. & Cham. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft.
Pierce, Florida, United States. Received August 1990.

PI 546640 **donor id:** 2798. **origin:** Colombia. **collected:** May 1978.
other id: CPI 93628. **other id:** CIAT 3209. **locality:**
Cundinamarca State. Wild. Seed.

PI 546641 **donor id:** 2824. **origin:** Panama. **collected:** May 1978.
other id: CPI 93598. **other id:** CIAT 7027. **locality:**
Chiriqui State. Wild. Seed.

PI 546642 **donor id:** 2863. **origin:** Colombia. **collected:** May 1978.
other id: CIAT 9564. **locality:** Cauca State. Wild.
Seed.

PI 546643 **donor id:** 2866. **origin:** Colombia. **collected:** May 1978.
other id: CPI 93634. **other id:** CIAT 9567. **locality:**
Valle del Cauca, Cauca State. Wild. Seed.

PI 546644 **donor id:** 2867. **origin:** Colombia. **collected:** May 1978.
other id: CIAT 9568. **locality:** Valle del Cauca, Cauca
State. Wild. Seed.

PI 546645 **donor id:** 2890. **origin:** Brazil. **collected:** May 1978.
other id: CIAT 9689. **locality:** Mato Grosso State. Wild.
Seed.

PI 546646 **donor id:** 2896. **origin:** Colombia. **collected:** May 1978.
other id: CIAT 9872. **locality:** Antiquia State. Wild.
Seed.

PI 546647 **donor id:** 2898. **origin:** Colombia. **collected:** May 1978.
other id: CIAT 9874. **locality:** Antiquia State. Wild.
Seed.

PI 546648 **donor id:** 2902. **origin:** Colombia. **collected:** May 1978.
other id: CIAT 9878. **locality:** Antiquia State. Wild.
Seed.

PI 546640 to 546661-continued

- PI 546649 donor id: 2903. origin: Colombia. collected: May 1978.
other id: CIAT 9879. locality: Choco State. Wild.
Seed.
- PI 546650 donor id: 2907. origin: Colombia. collected: May 1978.
other id: CIAT 9914. locality: Choco State. Wild.
Seed.
- PI 546651 donor id: 2912. origin: Colombia. collected: May 1978.
other id: CIAT 9931. locality: Magdalena State. Wild.
Seed.
- PI 546652 donor id: 2920. origin: Colombia. collected: May 1978.
other id: CIAT 9994. locality: Sucure, Bolivar State.
Wild. Seed.
- PI 546653 donor id: 3186. origin: Colombia. collected: November
20, 1978. other id: CIAT 7401. locality: Valle Del
Cauca. Wild. Seed.
- PI 546654 donor id: 3192. origin: Honduras. collected: November
20, 1978. other id: CIAT 9362. locality: Belize. Wild.
Seed.
- PI 546655 donor id: 3211. origin: Colombia. collected: April 01,
1979. other id: CIAT 7762. locality: Valle Del Cauca.
Wild. Seed.
- PI 546656 donor id: 3216. origin: Brazil. collected: April 01,
1979. other id: CIAT 7553. locality: Goias. Wild.
Seed.
- PI 546657 donor id: 3229. origin: Brazil. collected: April 01,
1979. other id: CIAT 7581. locality: Bahia. Wild.
Seed.
- PI 546658 donor id: 3668. origin: Brazil. collected: May 13,
1980. other id: CIAT 7551. locality: Goias. Wild.
Seed.
- PI 546659 donor id: 3680. origin: Colombia. collected: May 13,
1980. other id: CIAT 7766. locality: Vichada State.
Wild. Seed.

PI 546640 to 546661-continued

PI 546660 donor id: 4544. origin: Mexico. collected: March 11, 1979. collector id: 106J. locality: 8.7km N Ocosingo road San Cristobal, Palenque Hwy 199, Ocosingo, Chiapas State. latitude: 16 deg. 58 min. N. longitude: 92 deg. 08 min. W. elevation: 925m. remarks: Annual rainfall 1810mm. Soil pH 5.5. Associated species: *V. luteola*, *M. atropurpureum*, *D. barbatum*, *Vigna elegans*, *Desmodium* sp., *G. straita*, *Teramnus uncinatus*, *A. villosa*, *Centrosema* sp., *S. guianensis*. Identified by V.E. Rudd. Wild. Seed.

PI 546661 donor id: 5023. origin: South America. other id: CPI 40019. remarks: Identified by V.E. Rudd. Wild. Seed.

PI 546662 to 546672. *Aeschynomene evenia* C. Wright FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546662 donor id: 2322. origin: Australia. collected: December 14, 1977. other id: CQ 993. locality: South of Tansey. Wild. Seed.

PI 546663 donor id: 2859. origin: Brazil. collected: May 1978. other id: CPI 93633. other id: OPI 9539. locality: Sao Paulo. Wild. Seed.

PI 546664 donor id: 5144. origin: Mexico. collected: November 12, 1980. other id: MEX 905. locality: 3km W of La Cruz, Sinaloa State. latitude: 23 deg. 56 min. N. longitude: 106 deg. 52 min. W. elevation: 10m. remarks: Annual rainfall 700mm. Identified by V.E. Rudd. Wild. Seed.

PI 546665 donor id: 5181. origin: West Indies. collected: September 08, 1980. other id: OPI 2058. locality: Mango Tree hill, along road between burnt hill and spring garden, Trelawrey Parish, Jamaica. elevation: 500m. remarks: Received from University of Arizona. Wild. Seed.

PI 546666 donor id: 2377. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 73048. received as: *A. evenia* var *evenia*. Wild. Seed.

PI 546667 donor id: 2360. origin: UNKNOWN. other id: CPI 38149. received as: *A. evenia* var *serrulata*. Wild. Seed.

PI 546668 donor id: 2361. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 33482. received as: *A. evenia* var *serrulata*. Wild. Seed.

PI 546662 to 546672-continued

- PI 546669 donor id: 3234. origin: Brazil. collected: April 01, 1979. other id: CIAT 7592. locality: Bahia State. received as: *A. evenia* var *serrulata*. Wild. Seed.
- PI 546670 donor id: 3671. origin: Brazil. collected: May 13, 1980. other id: CPI 93674. other id: CIAT 7560. locality: Goias State. received as: *A. evenia* var *serrulata*. Wild. Seed.
- PI 546671 donor id: 3672. origin: Brazil. collected: May 13, 1980. other id: CPI 93675. other id: CIAT 7562. locality: Goias State. remarks: Identified by V.E. Rudd. received as: *A. evenia* var *serrulata*. Wild. Seed.
- PI 546672 donor id: 5135. origin: Mexico. collected: November 12, 1980. other id: MEX 780. locality: 10km E of Cuernavaca, Morelos State. latitude: 19 deg. 00 min. N. elevation: 1500m. remarks: Annual rainfall 1200mm. Soil pH 7.8. Identified by V.E. Rudd. received as: *A. evenia* var *serrulata*. Wild. Seed.

PI 546673 to 546681. *Aeschynomene falcata* (Poiret) DC. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

- PI 546673 donor id: 1242. origin: Australia. collected: September 25, 1970. locality: DPI Grafton Station, New South Wales. Wild. Seed.
- PI 546674 donor id: 1705. origin: Brazil. collected: January 24, 1974. locality: In virgin cerrado soil, Finca Sr. Luis, Orlandia, Sao Paulo State. Wild. Seed.
- PI 546675 donor id: 1971. origin: Brazil. collected: May 10, 1976. locality: Fazenda Corrego Azul, 100m from main road going toward houses on Bracguarua Decumbens field, Brazilandia, Mato Grosso State. latitude: 21 deg. 25 min. S. longitude: 52 deg. 05 min. W. Wild. Seed.
- PI 546676 donor id: 2799. origin: Colombia. collected: May 1978. other id: CIAT 3220. locality: Meta State. Wild. Seed.
- PI 546677 donor id: 3148. origin: Australia. collected: September 29, 1978. other id: CPI 74865. locality: CSIRO. Wild. Seed.
- PI 546678 donor id: 3185. origin: Colombia. collected: November 20, 1978. other id: CPI 7398. locality: Cauca State. Wild. Seed.

PI 546673 to 546681-continued

- PI 546679 donor id: 4107. origin: Costa Rica. collected: October 21, 1978. collector id: 21-3B. locality: In vertical cuts on roadside of Orosi valley, 0.5km S Mirador road, Paraiso-Orosi, Cartago State. latitude: 9 deg. 48 min. N. longitude: 83 deg. 51 min. W. elevation: 1380m. remarks: Annual rainfall 1836mm. Associated species: *Teramnus uncinatus*, *Desmodium barbatum*, *Zornia* sp., *Stylosanthes guianensis*. Wild. Seed.
- PI 546680 donor id: 5140. origin: Mexico. collected: November 12, 1980. other id: MEX 882. locality: 34km NE of Choix, Sinaloa State. latitude: 27 deg. 00 min. N. elevation: 1150m. remarks: Annual rainfall 800mm. Wild. Seed.
- PI 546681 donor id: 5170. origin: Mexico. collected: September 08, 1980. other id: OPI 80036. locality: Oak pine hillside, 28.8km NE of Choix, 10.4km NW of El Cajan, Sinaloa State. latitude: 26 deg. 50 min. N. longitude: 108 deg. 11 min. W. elevation: 1430m. remarks: Received from University of Arizona, Oak Pine hillside. Wild. Seed.

PI 546682 to 546684. *Aeschynomene fascicularis* Schldl. & Cham.
FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

- PI 546682 donor id: 2828. origin: Venezuela. collected: May 1978. other id: CIAT 7250. locality: Guarico State. Wild. Seed.
- PI 546683 donor id: 4722. origin: Costa Rica. collected: October 24, 1978. collector id: 4722. other id: CR 83848. locality: National Park along Rio Guapote, Santa Rosa, Guanacaste State. latitude: 10 deg. 50 min. N. longitude: 85 deg. 36 min. W. elevation: 0-20m. remarks: Annual rainfall 1820mm. Wild. Seed.
- PI 546684 donor id: 4723. origin: Costa Rica. collected: January 21, 1978. collector id: 4723. other id: CR 85149. locality: National Park, fork in road to Playa Naranjo, Santa Rosa, Guanacaste State. latitude: 10 deg. 48 min. N. longitude: 85 deg. 40 min. W. elevation: 0-20m. remarks: Annual rainfall 1820mm. Wild. Seed.

PI 546685 to 546686. *Aeschynomene filosa* C. Martius ex Benth. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546685 to 546686-continued

PI 546685 donor id: 3399. origin: Mexico. collected: March 13, 1980. collector id: 36A. other id: MEX 373. locality: Dry area near water hole by small bridge, side of the road, 216km S of Acapulco, Oaxaca State. latitude: 16 deg. 23 min. N. longitude: 98 deg. 22 min. W. elevation: 200m. remarks: Annual rainfall 1200mm. Wild. Seed.

PI 546686 donor id: 4724. origin: Costa Rica. collected: February 26, 1983. other id: CR 96560. locality: Growing in water, E end of Santa Rita road to Murcielago, Santa Rite, Guanacaste State. latitude: 10 deg. 58 min. N. longitude: 85 deg. 37 min. W. elevation: 260m. remarks: Stem spongy, dominant in wet areas. Wild. Seed.

PI 546687 to 546689. *Aeschynomene fluitans* Peter FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546687 donor id: 2362. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 52338. Wild. Seed.

PI 546688 donor id: 2363. origin: UNKNOWN. collected: March 15, 1978. other id: CIAT 73047. Wild. Seed.

PI 546689 donor id: 3650. origin: Zambia. collected: March 15, 1978. other id: CIAT 73047. locality: Barotseland. Wild. Seed.

PI 546690 to 546692. *Aeschynomene fluminensis* Vell. Conc. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546690 donor id: 6272. origin: Venezuela. collected: August 24, 1983. other id: 2323866. locality: Tumeremo - El Dorado, Bolivar State. remarks: Mature seed, collected November 1958 first record. received as: *A. fluminensis* var. *fluminensis*. Wild. Seed.

PI 546691 donor id: 2854. origin: Colombia. collected: May 1978. other id: CPI 93631. other id: CIAT 9246. locality: Meta State. received as: *A. fluminensis* var. *fluminensis*. Wild. Seed.

PI 546692 donor id: 2889. origin: Panama. collected: May 1978. other id: CIAT 9688. locality: Panama State. received as: *A. fluminensis* var. *fluminensis*. Wild. Seed.

PI 546693 to 546696. *Aeschynomene foliolosa* Rudd FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

- PI 546693 donor id: 2791. origin: Colombia. collected: May 1978.
other id: CIAT 3133. locality: Vichada State. Wild. Seed.
- PI 546694 donor id: 2795. origin: Colombia. collected: May 1978.
other id: CIAT 3167. locality: Meta State. Wild. Seed.
- PI 546695 donor id: 2796. origin: Colombia. collected: May 1978.
other id: CIAT 3170. locality: Meta State. Wild. Seed.
- PI 546696 donor id: 2797. origin: Colombia. collected: May 1978.
other id: CIAT 3179. locality: Meta State. Wild. Seed.

PI 546697 to 546732. *Aeschynomene histrix* Poiret FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

- PI 546697 donor id: 1983. origin: Colombia. collected: May 11, 1976. collector id: 1983. locality: North of airstrip, Brazilandia, Mato Grosso. latitude: 21 deg. 25 min. S. longitude: 52 deg. 05 min. W. remarks: Stems and seed area hairy. Similar to *D. barbatum*. Wild. Seed.
- PI 546698 donor id: 2804. origin: Panama. collected: May 1978.
other id: CIAT 7005. Wild. Seed.
- PI 546699 donor id: 3193. origin: Brazil. collected: November 20, 1978. other id: CIAT 7761. locality: Bahia. Wild. Seed.
- PI 546700 donor id: 3220. origin: Brazil. collected: April 01, 1979. other id: CIAT 7567. locality: Bahia. Wild. Seed.
- PI 546701 donor id: 3221. origin: Brazil. collected: April 01, 1979. other id: CIAT 7572. locality: Bahia. Wild. Seed.
- PI 546702 donor id: 3226. origin: Brazil. collected: April 01, 1979. other id: CIAT 7578. locality: Bahia. Wild. Seed.
- PI 546703 donor id: 6246. origin: Colombia. collected: August 24, 1983. other id: OPI 2279940. locality: In *Paspalum* sp. pastures, Granja Agroped de Pidecusta mun de Pidesuesta. remarks: Seed mature. Plant froze 12/85. Wild. Seed.

PI 546697 to 546732-continued

- PI 546704 donor id: 6251. origin: UNKNOWN. collected: August 24, 1983. other id: OPI 2755100. locality: Sandy soil, 7.3km W of Rio Pandelros, road Januaria serra Dasarras. elevation: 600m. Wild. Seed.
- PI 546705 donor id: 6254. origin: Venezuela. collected: August 24, 1983. other id: OPI 2909624. locality: 22km NE Area de Bosque Pluvial y de Sabana, near Caserio de Recones de Chacorro. latitude: 5 deg. 48 min. N. longitude: 67 deg. 20 min. W. elevation: 80m. Wild. Seed.
- PI 546706 donor id: 6256. origin: Nicaragua. collected: August 24, 1983. other id: OPI 2170518. locality: Grassy ground behind beach, Puerto Cabegos. remarks: Seeds mature. Perennial. Wild. Seed.
- PI 546707 donor id: 6260. origin: Venezuela. collected: August 24, 1983. other id: OPI 2170518. locality: E of Hotel Amazonas, Puerto Aya Cucho, Orinoco, Amazonas Territory. remarks: Seeds mature. Wild. Seed.
- PI 546708 donor id: 2891. origin: Brazil. collected: May 18, 1983. other id: CPI 93599. other id: CIAT 9690. locality: Mato Grosso State. received as: A. histrix var densiflora. Wild. Seed.
- PI 546709 donor id: 2892. origin: Brazil. collected: May 1978. other id: CPI 93638. other id: CIAT 9691. locality: Goias State. received as: A. histrix var densiflora. Wild. Seed.
- PI 546710 donor id: 3219. origin: Brazil. collected: April 01, 1979. other id: CIAT 7566. locality: Bahia State. received as: A. histrix var densiflora. Wild. Seed.
- PI 546711 donor id: 3669. origin: Brazil. collected: May 13, 1980. other id: CPI 93673. other id: CIAT 7555. locality: Bahia State. received as: A. histrix var densiflora. Wild. Seed.
- PI 546712 donor id: 2833. origin: Venezuela. collected: May 1978. other id: CIAT 7259. locality: Anzoategui. received as: A. histrix var histrix. Wild. Seed.
- PI 546713 donor id: 2834. origin: Venezuela. collected: May 1978. other id: CIAT 7260. locality: Anzoategui. received as: A. histrix var histrix. Wild. Seed.
- PI 546714 donor id: 2838. origin: Venezuela. collected: May 1978. other id: CIAT 7266. locality: Bolivar State. received as: A. histrix var histrix. Wild. Seed.

PI 546697 to 546732-continued

- PI 546715 donor id: 2839. origin: Venezuela. collected: May 1978. other id: CIAT 7267. locality: Monagas State. received as: A. histrix var histrix. Wild. Seed.
- PI 546716 donor id: 2873. origin: Brazil. collected: May 1978. other id: CPI 93636. other id: CIAT 9668. locality: Mato Grosso State. received as: A. histrix var histrix. Wild. Seed.
- PI 546717 donor id: 3169. origin: Venezuela. collected: November 20, 1978. other id: CIAT 7265. locality: Bolivar State. received as: A. histrix var histrix. Wild. Seed.
- PI 546718 donor id: 3178. origin: Venezuela. collected: November 20, 1978. other id: CIAT 7255. locality: Guarico State. received as: A. histrix var histrix. Wild. Seed.
- PI 546719 donor id: 3218. origin: Brazil. collected: April 01, 1979. other id: CIAT 7563. locality: Goias State. received as: A. histrix var histrix. Wild. Seed.
- PI 546720 donor id: 3222. origin: Brazil. collected: April 01, 1979. other id: CIAT 7573. locality: Bahia State. received as: A. histrix var histrix. Wild. Seed.
- PI 546721 donor id: 3225. origin: Brazil. collected: April 01, 1979. other id: CIAT 7576. locality: Bahia State. received as: A. histrix var histrix. Wild. Seed.
- PI 546722 donor id: 3230. origin: Brazil. collected: April 01, 1979. other id: CIAT 7587. locality: Bahia State. received as: A. histrix var histrix. Wild. Seed.
- PI 546723 donor id: 6252. origin: Mexico. collected: August 24, 1983. other id: OPI 2537015. locality: On steep rounded hills in shallow gravely soil, 12.8km SW Lakesola road to La Huesta, Jalisco State. received as: A. histrix var histrix. Wild. Seed.
- PI 546724 donor id: 2815. origin: Panama. collected: May 1978. other id: CPI 93629. other id: CIAT 7016. locality: Veragus State. received as: A. histrix var incana. Wild. Seed.
- PI 546725 donor id: 2835. origin: Venezuela. collected: May 1978. other id: CPI 93600. other id: CIAT 7262. locality: Anzoategui State. received as: A. histrix var incana. Wild. Seed.
- PI 546726 donor id: 2885. origin: Brazil. collected: May 1978. other id: CIAT 9682. locality: Mato Grosso State. received as: A. histrix var incana. Wild. Seed.

PI 546697 to 546732-continued

- PI 546727 **donor id:** 3187. **origin:** Venezuela. **collected:** November 20, 1978. **other id:** CIAT 7434. **locality:** Monagas State. **received as:** *A. histrix* var *incana*. Wild. Seed.
- PI 546728 **donor id:** 3196. **origin:** Brazil. **collected:** November 20, 1978. **other id:** CIAT 9686. **locality:** Mato Grosso State. **received as:** *A. histrix* var *incana*. Wild. Seed.
- PI 546729 **donor id:** 3231. **origin:** Brazil. **collected:** April 01, 1979. **other id:** CIAT 7588. **locality:** Bahia State. **received as:** *A. histrix* var *incana*. Wild. Seed.
- PI 546730 **donor id:** 3235. **origin:** Brazil. **collected:** April 01, 1979. **other id:** CIAT 7594. **locality:** Bahia State. **received as:** *A. histrix* var *incana*. Wild. Seed.
- PI 546731 **donor id:** 4243. **origin:** Panama. **collected:** December 10, 1984. **other id:** OPI M2603500. **locality:** Gravel along railroad tracks, S side of Summit Gardens, Canal Zone. **remarks:** Annual rainfall 75mm. Flowers dull orange. **received as:** *A. histrix* var *incana*. Wild. Seed.
- PI 546732 **donor id:** 6253. **origin:** Panama. **collected:** August 24, 1983. **other id:** OPI 2859624. **locality:** S side of Summit Gardens, Canal Zone. **received as:** *A. histrix* var *incana*. Perennial. Wild. Seed.

PI 546733. *Aeschynomene indica* L. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 5713. **origin:** Taiwan. **collected:** December 1981. **remarks:** Received from Huang Chia, Council for Agricultural Planning and Development. Wild. Seed.

PI 546734. *Aeschynomene leptophylla* Harms FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 5156. **origin:** South Africa. **collected:** September 08, 1980. **collector id:** 5156. **other id:** OPI 166870. **locality:** Damp area waterfall, Loskop Dam Area, Middelburg, Draaikraal, Transvaal District. **remarks:** Received from University of Arizona. Wild. Seed.

PI 546735. *Aeschynomene mimosifolia* Vatke FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 3335. **origin:** South Africa. **collected:** March 04, 1980. **remarks:** From H.D.L. Corby, Dept. of Botany, University of Rhodesia, P.O. Box M.P. 167, Mount Pleasant, Sallsbury. Wild. Seed.

PI 546736. *Aeschynomene mollicula* Kunth FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 2793. **origin:** Colombia. **collected:** May 1978. **other id:** CIAT 3143. **locality:** Vichada State. **received as:** *A. mollicula* var *breviflora*. Wild. Seed.

PI 546737 to 546738. *Aeschynomene nivea* Brandegee FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546737 **donor id:** 5716. **origin:** United States. **collected:** January 11, 1982. **other id:** OPI 5968. **locality:** Baja State. **remarks:** Received from Annetta Carter, University of California, Department of Botany. Wild. Seed.

PI 546738 **donor id:** 5717. **origin:** United States. **collected:** January 11, 1982. **other id:** OPI 5973. **locality:** Baja. **remarks:** Received from Annetta Carter, University of California, Department of Botany. Identified by V. E. Rudd. Germplasm Bank #14. Wild. Seed.

PI 546739 to 546761. *Aeschynomene paniculata* Willd. ex J. Vogel
FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546739 **donor id:** 2364. **origin:** UNKNOWN. **collected:** March 15, 1978. **other id:** CPI 33483. Wild. Seed.

PI 546740 **donor id:** 2837. **origin:** Venezuela. **collected:** May 1978. **locality:** Bolivar State. Wild. Seed.

PI 546741 **donor id:** 2840. **origin:** Venezuela. **collected:** May 1978. **other id:** CPI 7268. **locality:** Monagas State. Wild. Seed.

PI 546739 to 546761-continued

- PI 546742 donor id: 2841. origin: Venezuela. collected: May 1978.
other id: CPI 7269. locality: Monagas State. Wild.
Seed.
- PI 546743 donor id: 2845. origin: Venezuela. collected: May 1978.
other id: CPI 7273. locality: Monagas State. Wild.
Seed.
- PI 546744 donor id: 2871. origin: Brazil. collected: May 1978.
other id: CPI 93635. other id: CIAT 9665. locality:
Mato Grosso State. Wild. Seed.
- PI 546745 donor id: 2874. origin: Brazil. collected: May 1978.
other id: CIAT 9669. locality: Mato Grosso State. Wild.
Seed.
- PI 546746 donor id: 2877. origin: Brazil. collected: May 1978.
other id: CPI 90239. other id: CIAT 9672. locality:
Mato Grosso State. Wild. Seed.
- PI 546747 donor id: 2880. origin: Brazil. collected: May 1978.
other id: CPI 90239. other id: CIAT 9675. locality:
Mato Grosso State. Wild. Seed.
- PI 546748 donor id: 2883. origin: Brazil. collected: May 1978.
other id: CPI 90239. other id: CIAT 9679. locality:
Mato Grosso State. Wild. Seed.
- PI 546749 donor id: 2894. origin: Brazil. collected: May 1978.
other id: CPI 90239. other id: CIAT 9693. locality:
Goias State. Wild. Seed.
- PI 546750 donor id: 3171. origin: Brazil. collected: November 20,
1978. other id: CPI 90239. other id: CIAT 3381.
locality: Mato Grosso. Wild. Seed.
- PI 546751 donor id: 3182. origin: Venezuela. collected: November
20, 1978. other id: CPI 90239. other id: CIAT 7275.
locality: Monagas State. Wild. Seed.
- PI 546752 donor id: 3215. origin: Brazil. collected: April 01,
1979. other id: CPI 90239. other id: CIAT 7549.
locality: Federal District State. Wild. Seed.
- PI 546753 donor id: 3616. origin: Mexico. collected: January 09,
1980. collector id: 178. other id: CPI 90239. other
id: MEX 178. locality: 54km N of Pinotepa to Puluta.
Oaxaca State. latitude: 17 deg. 00 min. N. elevation:
350m. remarks: Annual rainfall 1100mm. Wild. Seed.

PI 546739 to 546761-continued

- PI 546754 donor id: 3670. origin: Brazil. collected: May 13, 1980. other id: CPI 90239. other id: CIAT 7556. locality: Goias State. Wild. Seed.
- PI 546755 donor id: 3675. origin: UNKNOWN. collected: May 13, 1980. other id: CPI 90239. other id: CIAT 7017. remarks: Identified by V.E. Rudd. Wild. Seed.
- PI 546756 donor id: 4226. origin: Brazil. collected: December 10, 1984. other id: CPI 90239. other id: M1966935. locality: Burned over Cerrado, Brasilia, Federal District. elevation: 6m. remarks: Annual rainfall 975mm. Wild. Seed.
- PI 546757 donor id: 4567. origin: Mexico. collected: March 12, 1985. collector id: 114B. other id: CPI 90239. locality: 160km S of 17km road marker, Palenque road to La Libertad, Chiapas State. latitude: 17 deg. 39 min. N. longitude: 91 deg. 54 min. W. elevation: 25m. remarks: Annual rainfall 2032mm. Plants abundant. Identified by V.E. Rudd. Associated species: A. americana, D. barbatum, S. guianensis, G. straita. Wild. Seed.
- PI 546758 donor id: 5128. origin: Mexico. collected: November 12, 1980. collector id: 5128. other id: CPI 90239. other id: MEX 779. locality: 60km W of Pinotera Nacional. latitude: 16 deg. 00 min. N. elevation: 100m. remarks: Annual rainfall 1200mm. Wild. Seed.
- PI 546759 donor id: 5158. origin: Brazil. collected: September 08, 1980. collector id: 5158. other id: OPI 263974. locality: 85km N of Xavantina, Goias State. elevation: 550m. remarks: Received from University of Arizona. Wild. Seed.
- PI 546760 donor id: 5501. origin: Belize. collected: April 05, 1981. collector id: 5501. locality: Sandy, pine ridge, road marker 34, water pond table about 6 inches. remarks: No legumes present. Wild. Seed.
- PI 546761 donor id: 6249. origin: Mexico. collected: August 24, 1983. other id: OPI 2536980. locality: 3.2 to 14.1km W of Jalcocotan on Miramar road, Jalcocotan, Nayarit State. Wild. Seed.

PI 546762. *Aeschynomene pfundii* Taubert FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546762-continued

donor id: 4165. **origin:** Senegal. **collected:** August 17, 1984. **remarks:** From D. Alazard, Office de la Recherche Scientifique, Centrean, Ostom de Dakar, Boite Postale N 1286 Dalar, Republic of Senegal. Wild. Seed.

PI 546763. *Aeschynomene pinetorum* Brandegee FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 4388. **origin:** Mexico. **collected:** March 03, 1985. **collector id:** 056A. **locality:** Rocky cuts in road, 3km W of intersection of Hwy 185 and 200 at Salina Cruz, Oaxaca State. **latitude:** 16 deg. 10 min. N. **longitude:** 95 deg. 12 min. W. **elevation:** 150m. **remarks:** Annual rainfall 1063mm. Associated species: *Galactia* sp., *D. virgatus*, *S. viscosa*, grass similar to *A. paniculatum*, *A. fascicularis*, *C. pascuorum*, *M. atropurpureum*, *Stylosanthes* sp. Wild. Seed.

PI 546764 to 546765. *Aeschynomene pratensis* Small FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546764 **donor id:** 2085. **origin:** Brazil. **collected:** May 10, 1976. **collector id:** 2085. **locality:** Fazenda Corrego Azul, from road to Corrego Azul or from Faze Fazenda proper, Brazilandia, Mato Grosso State. **latitude:** 21 deg. 25 min. S. **longitude:** 52 deg. 05 min. W. **remarks:** Big seeded type. **received as:** *A. pratensis* var *caribaea*. Wild. Seed.

PI 546765 **donor id:** 3188. **origin:** Colombia. **collected:** November 20, 1976. **other id:** CIAT 9067. **locality:** Amazonas State. **received as:** *A. pratensis* var *caribaea*. Wild. Seed.

PI 546766 to 546767. *Aeschynomene purpusii* Brandegee FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546766 to 546767-continued

PI 546766 donor id: 4315. origin: Mexico. collected: February 26, 1985. collector id: 030A. locality: Growing in lime rock, roadside cut on Mitla-Santa Maria Albarradas road, 0.7km intersection road to San Lorenzo Albarrados, Oaxaca State. latitude: 16 deg. 55 min. N. longitude: 96 deg. 14 min. W. elevation: 1750m. remarks: Annual rainfall 606mm. Associated species: *M. atropurpureum* flowering (no seeds), *M. gibbsifolium*, *Rhynchosia* sp. Wild. Seed.

PI 546767 donor id: 4319. origin: Mexico. collected: February 26, 1985. collector id: 032. locality: About 19km road marker ENE from Mitla, Santa Maria Albarrad, Oaxaca State. latitude: 16 deg. 57 min. N. longitude: 96 deg. 13 min. W. elevation: 1550m. remarks: Annual rainfall 606mm. Wild. Seed.

PI 546768. *Aeschynomene racemosa* J. Vogel FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 2884. origin: Brazil. collected: May 1978.
other id: CIAT 9680. locality: Mato Grosso State. Wild. Seed.

PI 546769. *Aeschynomene rehmannii* Schinz FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 4236. origin: South Africa. collected: December 10, 1984. other id: M 2434237. locality: Grassland, dry-sand soil, between Middelburg and Hendrina, about 12km from Middelburg. elevation: 5m. remarks: Plants 1-2m tall. Fruits brown. Flowers yellow. Common 2-3 articulations each 8 by 6mm. received as: *A. rehmannii* var *leptobotrya*. Wild. Seed.

PI 546770 to 546776. *Aeschynomene rudis* Benth. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546770 donor id: 1984. origin: Brazil. collected: May 11, 1976. collector id: 1984. locality: On east-west main farm road just before mucky soil area, Brazilandia, Mato Grosso State. latitude: 21 deg. 25 min. S. longitude: 52 deg. 05 min. W. remarks: Plants tall. Wild. Seed.

PI 546770 to 546776-continued

- PI 546771 donor id: 2899. origin: Colombia. collected: May 1978. other id: CIAT 9875. locality: Antioquia State. Wild. Seed.
- PI 546772 donor id: 3639. origin: Argentina. collected: March 23, 1977. collector id: 3639. other id: CPI 78349. locality: 15km SW of Embarcacion, Salta State. latitude: 23 deg. 00 min. S. elevation: 400m. remarks: Annual rainfall 680mm. Soil pH 6.5. Wild. Seed.
- PI 546773 donor id: 3655. origin: Australia. collected: March 23, 1977. collector id: 3655. other id: CPI 78350. locality: 50km SW of Oran on road to Esteran. latitude: 23 deg. 00 min. S. elevation: 300m. remarks: Annual rainfall 650mm. Soil pH 6.7. Wild. Seed.
- PI 546774 donor id: 3676. origin: UNKNOWN. collected: May 13, 1980. other id: CPI 93677. other id: CIAT 7397. Wild. Seed.
- PI 546775 donor id: 5024. origin: UNKNOWN. other id: CPI 78348. Wild. Seed.
- PI 546776 donor id: 5025. origin: UNKNOWN. other id: CPI 78351. Wild. Seed.

PI 546777 to 546782. *Aeschynomene scabra* G. Don FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

- PI 546777 donor id: 2369. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 38172. Wild. Seed.
- PI 546778 donor id: 2853. origin: Colombia. collected: May 1978. other id: CIAT 9242. locality: Meta State. Wild. Seed.
- PI 546779 donor id: 4239. origin: Costa Rica. collected: December 10, 1984. other id: M2471203. locality: Heavily grazed area, Palo Verde Swamp, Guanacaste State. latitude: 10 deg. 25 min. N. longitude: 85 deg. 07 min. W. remarks: Annual rainfall 1864mm. Wild. Seed.
- PI 546780 donor id: 5124. origin: Mexico. collected: December 11, 1984. collector id: 5124. other id: MEX 521. locality: 10km E of Cuernauaca, Morelos State. latitude: 19 deg. 00 min.. elevation: 1500m. remarks: Annual rainfall 1200mm. Wild. Seed.

PI 546777 to 546782-continued

PI 546781 donor id: 5189. origin: Mexico. collected: September 08, 1980. collector id: 5189. other id: CPI 91097. other id: MEX 935. locality: Growing in swamp, 35km SW of Escuinapa, Escuinapa, Sinaloa State. latitude: 23 deg. 00 min. N. elevation: 2m. remarks: Identified by V.E. Rudd. Wild. Seed.

PI 546782 donor id: 5223. origin: Mexico. collected: November 12, 1980. collector id: 5223. other id: MEX 1108. locality: 6km W of Tonalá, Chiapas State. latitude: 16 deg. 00 min. N. elevation: 20m. remarks: Plant 3m tall. Annual rainfall 1600mm. Identified by V.E. Rudd. Wild. Seed.

PI 546783 to 546789. *Aeschynomene schimperii* Hochst. ex A. Rich.
FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546783 donor id: 2959. origin: Malawi. collected: May 10, 1978. other id: CPI 74813. Wild. Seed.

PI 546784 donor id: 2995. origin: Australia. collected: August 07, 1978. other id: IRFL 2959. locality: CSIRO. Wild. Seed.

PI 546785 donor id: 3001. origin: Africa. local name: Rusewa (Zigua). collected: August 1978. other id: CPI 93613. locality: In black cotton swamp soil, Tanganyika. elevation: 400m. Wild. Seed.

PI 546786 donor id: 3651. origin: Malawi. collected: March 14, 1980. other id: CPI 73048. locality: Llwonde. Wild. Seed.

PI 546787 donor id: 3653. origin: Malawi. collected: August 23, 1976. other id: CPI 74813. locality: N of Lake Chilwa. Wild. Seed.

PI 546788 donor id: 4166. origin: Senegal. collected: August 17, 1984. other id: CPI 74813. locality: From D. Alazard, Office de la Recherche Scientifique, Centre Orstrom de Dakar, Boite Postale N 1386 Dalar, Republic of Senegal. Wild. Seed.

PI 546789 donor id: 6255. origin: Ethiopia. collected: August 24, 1983. other id: OPI 2481250. locality: Edge of water, Idle Valley, 45km ESE Hanor, road to Djigdigga. latitude: 9 deg. 11 min. N. longitude: 4 deg. 22 min. E. Wild. Seed.

PI 546790 to 546822. *Aeschynomene sensitiva* Sw. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

- PI 546790 **donor id:** 1856. **origin:** Brazil. **collected:** September 08, 1975. **locality:** Growing in water, grazed back to woody stem, Pantanal, Mata Grosso State. **remarks:** Long day flowering type. Wild. Seed.
- PI 546791 **donor id:** 1959. **origin:** Brazil. **collected:** May 09, 1975. **collector id:** 1959. **other id:** CPI 93605. **locality:** On roadside of Savanna area, 1km W of Parana River, W bank at Panorama, Mato Grosso State. **latitude:** 21 deg. 20 min. S. **longitude:** 51 deg. 53 min. W. **remarks:** Plants not subject of flooding, water loving. Wild. Seed.
- PI 546792 **donor id:** 2035. **origin:** Brazil. **collected:** May 19, 1975. **collector id:** 2035. **other id:** CPI 93606. **locality:** Growing in water. Area heavily grazed, Fazenda Tapoco, 50km N of Aquidauana, Mato Grosso. **latitude:** 20 deg. 02 min. S. **longitude:** 55 deg. 58 min. W. Wild. Seed.
- PI 546793 **donor id:** 3191. **origin:** Colombia. **collected:** November 20, 1978. **other id:** CIAT 7447. **locality:** Cauca State. Wild. Seed.
- PI 546794 **donor id:** 3214. **origin:** Colombia. **collected:** April 01, 1979. **other id:** CIAT 7770. **locality:** Vichada State. Wild. Seed.
- PI 546795 **donor id:** 3470. **origin:** Mexico. **collected:** March 25, 1980. **collector id:** 59A. **locality:** 4km W of hwy marker 90, Tabasco State. **latitude:** 17 deg. 59 min. N. **longitude:** 93 deg. 41 min. W. Wild. Seed.
- PI 546796 **donor id:** 3474. **origin:** Mexico. **collected:** March 25, 1980. **collector id:** 61A. **other id:** CPI 93608. **locality:** 3km W of Tierra Nueva, Tabasco State. **latitude:** 17 deg. 39 min. N. **longitude:** 93 deg. 27 min. W. Wild. Seed.
- PI 546797 **donor id:** 3486. **origin:** Mexico. **collected:** March 25, 1980. **collector id:** 63A. **other id:** CPI 93609. **locality:** 13km W from Tierra Nueva, Tabasco State. **latitude:** 17 deg. 38 min. N. **longitude:** 93 deg. 34 min. W. Wild. Seed.

PI 546790 to 546822-continued

- PI 546798 donor id: 3491. origin: Mexico. collected: March 25, 1980. collector id: 64D. other id: CPI 93610. locality: 12km S of Huimangilla, Tabasco State. latitude: 17 deg. 44 min. N. longitude: 93 deg. 27 min. W. Wild. Seed.
- PI 546799 donor id: 3562. origin: Mexico. collected: March 31, 1980. collector id: 90A. other id: CPI 93611. locality: In water by small bridge, W of Paso San Juan, 2km E of Paso Real, Veracruz State. latitude: 19 deg. 14 min. N. longitude: 96 deg. 22 min. W. Wild. Seed.
- PI 546800 donor id: 3563. origin: Mexico. collected: March 31, 1980. collector id: 90B. other id: CPI 93612. locality: In water by small bridge, W of Paso San Juan, 2km E of Paso Real, Veracruz State. latitude: 19 deg. 14 min. N. longitude: 96 deg. 22 min. W. Wild. Seed.
- PI 546801 donor id: 4167. origin: Senegal. collected: August 17, 1984. locality: From D. Alazard, Office de la Recherche Scientifique, Centre Orstom de Dakar, Boite Postale N 1386 Dalar, Republic of Senegal. Wild. Seed.
- PI 546802 donor id: 4570. origin: Mexico. collected: March 12, 1985. collector id: 115. locality: 18.6km N of Palenque intersection with road to La Libertad, Chiapas State. latitude: 17 deg. 39 min. N. longitude: 91 deg. 53 min. W. elevation: 40m. remarks: Plants 2m tall. Associated species: Vigna adenantha, Arican stargrass. Annual rainfall 2032mm. Wild. Seed.
- PI 546803 donor id: 4709. origin: Costa Rica. collected: March 08, 1983. collector id: 4709. other id: CR 100897. locality: San Carlos, Muelle across river W Muelle, Quesdada, Alajuela State. latitude: 10 deg. 29 min. N. longitude: 84 deg. 28 min. W. elevation: 100m. remarks: Shrub 1 m tall. Annual rainfall 2580mm. Wild. Seed.
- PI 546804 donor id: 4710. origin: Costa Rica. collected: February 16, 1984. collector id: 4710. other id: CR 102479. locality: Dry stoney area near river, N of Rio Piedra, Laguna de Arenal, Guanacaste State. latitude: 10 deg. 23 min. N. longitude: 84 deg. 33 min. W. elevation: 500m. remarks: Shrub 1.5m tall. Annual rainfall 4653mm. Wild. Seed.

PI 546790 to 546822-continued

- PI 546805 donor id: 4711. origin: Costa Rica. collected: November 24, 1982. collector id: 4711. other id: CR 90850. locality: Lagunas Coyol y Guayabal, La Cruz, Guanacaste State. latitude: 11 deg. 03 min. N. longitude: 85 deg. 40 min. W. elevation: 250m. remarks: Annual rainfall 1776mm. Wild. Seed.
- PI 546806 donor id: 4712. origin: Costa Rica. collected: January 24, 1987. collector id: 4712. other id: CR 87631. locality: Growing in water, tropical moist forest life zone, 15km S San Isidre Hwy 2, Webers Finca Repunta, San Isidro de General, San Jose State. latitude: 09 deg. 17 min. N. longitude: 83 deg. 39 min. W. elevation: 600m. remarks: Plants 3m tall. Annual rainfall 2925mm. Wild. Seed.
- PI 546807 donor id: 4715. origin: Costa Rica. collected: March 30, 1981. collector id: 4715. other id: CR 83495. locality: Between Guapiles y Siquirres, Limon State. latitude: 10 deg. 16 min. N. longitude: 83 deg. 30 min. W. elevation: 100m. remarks: Annual rainfall 3719mm. Wild. Seed.
- PI 546808 donor id: 4720. origin: Costa Rica. collected: September 15, 1983. collector id: 4720. other id: CR 97817. locality: Villa Hermosa, Alajuela State. remarks: Plants 3m tall. Annual rainfall 2374mm. Wild. Seed.
- PI 546809 donor id: 4760. origin: Costa Rica. collected: April 29, 1986. collector id: 29-12. locality: In pasture of 3-40HA with cattle, part of area chopped, Quepos road to Dominical, 6km S of Rio Tulin, Quepos, Puntarenas State. latitude: 9 deg. 36 min. N. longitude: 84 deg. 32 min. W. elevation: 10m. remarks: Annual rainfall 2887mm. Wild. Seed.
- PI 546810 donor id: 4937. origin: Costa Rica. collected: March 11, 1987. collector id: 11/5. locality: 18km N of Vera Blanca road to La Virgen, Vera Blanca, Alajuela State. latitude: 10 deg. 16 min. N. longitude: 84 deg. 12 min. W. elevation: 850m. remarks: Annual rainfall 2374mm. Wild. Seed.
- PI 546811 donor id: 4953. origin: Costa Rica. collected: March 12, 1987. collector id: 13/3. locality: 5km past Watsii road, Bribri, Lemon State. latitude: 9 deg. 37 min. N. longitude: 82 deg. 54 min. W. elevation: 75m. remarks: Vine growing up bushes, 2m tall. Fruit small. Annual rainfall 3426mm. Associated species: C. plumiere. Wild. Seed.

PI 546790 to 546822-continued

- PI 546812 donor id: 4976. origin: Costa Rica. collected: March 18, 1987. collector id: 18/2. locality: Wet area roadside, 15km S of Mirador de Paraiso road to Orosi, then left 8km to Cachi road, Orosi, Cartage State. latitude: 9 deg. 49 min. N. longitude: 8 deg. 49 min. W. elevation: 1075m. remarks: Annual rainfall 2059mm. Wild. Seed.
- PI 546813 donor id: 5496. origin: Belize. collected: April 05, 1981. collector id: 18/2. remarks: Associated species: Vigna leuteola, Cassia sp., R. minima. Wild. Seed.
- PI 546814 donor id: 5523. origin: Belize. collected: April 07, 1981. collector id: 5223. locality: Dry soil, 50m S of Mango Creek Warf. remarks: Identified by V.E. Rudd. Wild. Seed.
- PI 546815 donor id: 6298. origin: Costa Rica. collected: February 10, 1988. collector id: 10/1. locality: North side of lake, 4km E of turnoff to Turrialba, Orosi, Cartago State. Wild. Seed.
- PI 546816 donor id: 6392. origin: Costa Rica. collected: February 16, 1988. collector id: 16/8. locality: 0.7km S of Aguas Claras, Guanacaste State. latitude: 10 deg. 48 min. N. longitude: 85 deg. 11 min. W. elevation: 425m. Wild. Seed.
- PI 546817 donor id: 889. origin: Costa Rica. collected: February 15, 1967. collector id: 889. locality: Finca de Gutierrez, Pital, Sarapiqui, Alajuela State. latitude: 10 deg. 27 min. N. longitude: 84 deg. 16 min. W. elevation: 150m. remarks: Annual rainfall 3025mm. received as: A. sensitiva var. sensitiva. Wild. Seed.
- PI 546818 donor id: 2063. origin: Costa Rica. collected: May 31, 1976. collector id: 107. other id: CPI 93625. locality: Clay loam soils, high in CA, flooded periodically, Saborio, 24km from Limon. latitude: 10 deg. 00 min. N. longitude: 83 deg. 10 min. W. elevation: 10m. remarks: Annual rainfall 4653mm. received as: A. sensitiva var. sensitiva. Wild. Seed.
- PI 546819 donor id: 2809. origin: Panama. collected: May 1978. other id: CIAT 7010. locality: Los Santos State. received as: A. sensitiva var. sensitiva. Wild. Seed.
- PI 546820 donor id: 2852. origin: Colombia. collected: May 1978. other id: CIAT 9240. locality: Meta State. received as: A. sensitiva var. sensitiva. Wild. Seed.

PI 546790 to 546822-continued

PI 546821 donor id: 2856. origin: Colombia. collected: May 1978.
other id: CIAT 9255. locality: Meta State. received as:
A. sensitiva var. sensitiva. Wild. Seed.

PI 546822 donor id: 2888. origin: Brazil. collected: May 1978.
other id: CIAT 9687. locality: Meta State. received as:
A. sensitiva var. sensitiva. Wild. Seed.

PI 546823 to 546877. *Aeschynomene* sp. FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft.
Pierce, Florida, United States. Received August 1990.

PI 546823 donor id: 1013. origin: Brazil. collected: April 27,
1967. other id: BR 0017. locality: Nova Odessa, Sao
Paulo State. Wild. Seed.

PI 546824 donor id: 1148. origin: Brazil. collected: March 05,
1970. collector id: 1148. locality: El Muelle, Ciudad
Quesada, Alejuela State. elevation: 100m. remarks:
Annual rainfall 4653mm. Wild. Seed.

PI 546825 donor id: 1159. origin: Costa Rica. collected: March
19, 1968. collector id: 1159. locality: 61km from west
end of lava on road to La Vieja, from Volcano, Volcano
Arenal. latitude: 10 deg. 29 min. N. longitude: 84
deg. 42 min. W. elevation: 1633m. remarks: Annual
rainfall 4000mm. Associated species: *Desmodium intortum*
and *D. canum*. Wild. Seed.

PI 546826 donor id: 1173. origin: Costa Rica. collected: March
19, 1968. collector id: 55. locality: From side of
road, Arenal Volcano, 120km from lava. latitude: 10 deg.
27 min. N. longitude: 84 deg. 42 min. W. elevation:
1633m. remarks: Annual rainfall 4000mm. Wild. Seed.

PI 546827 donor id: 1187. origin: Costa Rica. collected: January
07, 1970. collector id: 35S. locality: Rancho Alegre,
Filadelfia, Guanacaste State. latitude: 10 deg. 26 min.
N. longitude: 85 deg. 35 min. W. elevation: 17m.
remarks: Annual rainfall 1804mm. Associated species:
Teramnus uncinatus. Wild. Seed.

PI 546828 donor id: 1203. origin: Costa Rica. collected: December
10, 1969. collector id: 45S. locality: La Pacifica,
Canas, Guanacaste State. latitude: 10 deg. 27 min. N.
longitude: 85 deg. 07 min. W. elevation: 50m.
remarks: Annual rainfall 1556mm. Associated species:
Calopogonium mucundoides. Wild. Seed.

PI 546823 to 546877-continued

- PI 546829 donor id: 1555. origin: Honduras. collected: March 20, 1973. collector id: 1555. locality: Growing in water, Midence Ranch, Trujillo State. Wild. Seed.
- PI 546830 donor id: 2044. origin: Brazil. collected: May 20, 1976. collector id: 2044. locality: Main hwy from Aquidauana, about 59km from marker to Campo Grande, Aquidauana, Mato Grosso State. remarks: Two, 3, or 4 articulations. Associated species: Viscous. Wild. Seed.
- PI 546831 donor id: 2100. origin: Brazil. collected: May 27, 1976. locality: Fazenda Corrego Azul, Brazilandia, Mato Grosso State. latitude: 21 deg. 05 min. S. longitude: 52 deg. 05 min. W. remarks: Low hairy type. Wild. Seed.
- PI 546832 donor id: 2368. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 37616. other id: 150378. Wild. Seed.
- PI 546833 donor id: 2370. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 38178. Wild. Seed.
- PI 546834 donor id: 2371. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 40018. Wild. Seed.
- PI 546835 donor id: 2372. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 40019. Wild. Seed.
- PI 546836 donor id: 2373. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 52332. other id: IRF 2994. Wild. Seed.
- PI 546837 donor id: 2374. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 60163. Wild. Seed.
- PI 546838 donor id: 2375. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 66933. Wild. Seed.
- PI 546839 donor id: 2846. origin: Venezuela. collected: May 1978. other id: CIAT 7274. locality: Monagas State. Wild. Seed.
- PI 546840 donor id: 2926. origin: Colombia. collected: April 16, 1978. collector id: 2. locality: Edge of dry-wet area halfway between La Cumbre and Rest Repo. latitude: 3 deg. 45 min. N. longitude: 76 deg. 30 min. W. Wild. Seed.

PI 546823 to 546877-continued

- PI 546841 donor id: 2928. origin: Colombia. collected: April 16, 1978. collector id: 4. locality: Heavy grazing area, 6km W of Rest Repo and Lake Calimo. latitude: 3 deg. 50 min. N. longitude: 76 deg. 33 min. W. Wild. Seed.
- PI 546842 donor id: 2994. origin: Australia. collected: August 07, 1978. other id: CPI 52332. other id: IRFL 2373. Wild. Seed.
- PI 546843 donor id: 3000. origin: Colombia. collected: September 05, 1978. other id: CIAT 7435. locality: Quilichao Swamp. Wild. Seed.
- PI 546844 donor id: 3156. origin: West Indies. collected: November 13, 1978. collector id: 3156. locality: La Loma, Pedro Sanchez 14km from Dominican Republic. elevation: 1000m. Wild. Seed.
- PI 546845 donor id: 3368. origin: Mexico. collected: March 12, 1980. collector id: 15B. other id: CPI 93649. locality: 17km S of Juchatengo, San Pedro, Oaxaca State. latitude: 16 deg. 15 min. N. longitude: 97 deg. 10 min. W. elevation: 1500m. remarks: Plants small. Annual rainfall 800mm. Wild. Seed.
- PI 546846 donor id: 3394. origin: Mexico. collected: March 13, 1980. collector id: 32A. locality: 61km from Escondido Hwy marker 85, Oaxaca State. latitude: 16 deg. 00 min. N. longitude: 97 deg. 31 min. W. Perennial. Wild. Seed.
- PI 546847 donor id: 3401. origin: Mexico. collected: March 13, 1980. collector id: 36C. locality: Dry area, but near waterhole by small bridge at roadside, 216km S of Acapulco, Oaxaca State. latitude: 16 deg. 23 min. N. longitude: 98 deg. 22 min. W. elevation: 200m. remarks: One plant transplanted with adventitious roots. Annual rainfall 1200mm. Wild. Seed.
- PI 546848 donor id: 3402. origin: Mexico. collected: March 13, 1980. collector id: 36D. locality: Dry area, but near waterhole by small bridge at roadside, 216km S of Acapulco, Oaxaca State. latitude: 16 deg. 23 min. N. longitude: 98 deg. 22 min. W. elevation: 200m. remarks: One plant transplanted with taproot. Annual rainfall 1200mm. Wild. Seed.

PI 546823 to 546877-continued

- PI 546849 donor id: 3403. origin: Mexico. collected: March 13, 1980. collector id: 36E. locality: Dry area, but near waterhole by small bridge at roadside, 216km S of Acapulco, Oaxaca State. latitude: 16 deg. 23 min. N. longitude: 98 deg. 22 min. W. elevation: 200m. remarks: One plant transplanted with taproot. Annual rainfall 1200mm. Wild. Seed.
- PI 546850 donor id: 3472. origin: Mexico. collected: March 25, 1980. collector id: 59C. other id: CPI 93662. locality: 4km W of hwy marker 90, Tabasco State. latitude: 17 deg. 59 min. N. longitude: 93 deg. 41 min. W. Wild. Seed.
- PI 546851 donor id: 3490. origin: Mexico. collected: March 25, 1980. collector id: 64C. other id: CPI 93665. locality: 12km S of Huimangilla, Tabasco State. latitude: 17 deg. 44 min. N. longitude: 93 deg. 27 min. W. Wild. Seed.
- PI 546852 donor id: 3503. origin: Mexico. collected: March 25, 1980. collector id: 68A. locality: College of Tropical Agriculture, Tabasco State. latitude: 17 deg. 59 min. N. longitude: 93 deg. 27 min. W. Wild. Seed.
- PI 546853 donor id: 3570. origin: Mexico. collected: April 01, 1980. collector id: 92C. locality: 0.25km W of W. Corral Falso sign, off Hwy 140 to Pinoltepec, Veracruz State. latitude: 19 deg. 24 min. N. longitude: 96 deg. 36 min. W. Wild. Seed.
- PI 546854 donor id: 3657. origin: Brazil. collected: May 08, 1977. collector id: 3657. other id: CPI 78352. locality: Miranda, Mato Grosso State. latitude: 20 deg. 00 min. S. elevation: 150m. remarks: Annual rainfall 1000mm. Wild. Seed.
- PI 546855 donor id: 3674. origin: Brazil. collected: May 13, 1980. other id: CIAT 7585. locality: Bahia State. Wild. Seed.
- PI 546856 donor id: 3683. origin: Brazil. collected: May 13, 1980. other id: CIAT 7854. locality: Bahia State. Wild. Seed.
- PI 546857 donor id: 4688. origin: Mexico. collected: March 04, 1985. collector id: 061B. locality: Area very dry, other species heavily grazed by goats, 3km NW intersection Hwys 190 and 185. latitude: 16 deg. 20 min. N. longitude: 95 deg. 13 min. W. elevation: 50m. remarks: Annual rainfall 1063mm. Associated species: A. purpusii, Galactia straita. Wild. Seed.

PI 546823 to 546877-continued

- PI 546858 donor id: 4690. origin: Mexico. collected: March 05, 1985. collector id: 072H. locality: Pine forest, granite rock, grazed area, 0.4km on road to La Mina Microwave Tower which intersects 3km E of Las Perlas, Chiapas State. latitude: 16 deg. 28 min. N. longitude: 94 deg. 01 min. W. elevation: 775m. remarks: Annual rainfall 1773mm. Associated species: *D. barbatum*, *S. guianensis*, *S. humilis*, *A. americana*. Wild. Seed.
- PI 546859 donor id: 4713. origin: Costa Rica. collected: September 12, 1966. collector id: 4713. other id: CR 87617. locality: 160km W of U.S. Embassy, Escazu, San Jose State. latitude: 09 deg. 56 min. N. longitude: 84 deg. 09 min. W. elevation: 1000m. remarks: Plants sensitive. Stems hairy. Annual rainfall 1868mm. Wild. Seed.
- PI 546860 donor id: 4714. origin: Costa Rica. collected: October 13, 1966. collector id: 4714. other id: CR 87624. locality: Seasonal marsh area, 4-5km S of La Cruz, Guanacaste State. latitude: 11 deg. 02 min. N. longitude: 85 deg. 38 min. W. elevation: 200m. Wild. Seed.
- PI 546861 donor id: 4725. origin: Costa Rica. collected: September 21, 1980. collector id: 4725. other id: CR 78303. locality: 3km Despues del Puente de Guardia, Liberia, Guanacaste. latitude: 10 deg. 34 min. N. longitude: 83 deg. 40 min. W. elevation: 85m. remarks: Annual rainfall 1000mm. Wild. Seed.
- PI 546862 donor id: 4726. origin: Costa Rica. collected: February 04, 1964. collector id: 4726. other id: CR 40466. locality: Rio Grande de Tarcoles, Putarenas State. latitude: 09 deg. 48 min. N. longitude: 84 deg. 37 min. W. elevation: 75m. remarks: Annual rainfall 2419mm. Wild. Seed.
- PI 546863 donor id: 4868. origin: Costa Rica. collected: March 05, 1987. collector id: 5/2. locality: Lower pasture, Taboga ranch, Canas, Guanacaste State. latitude: 10 deg. 20 min. N. longitude: 85 deg. 12 min. W. elevation: 100m. remarks: Annual rainfall 1500mm. Plant dead. Wild. Seed.
- PI 546864 donor id: 5130. origin: Mexico. collected: November 12, 1980. collector id: 5130. other id: CPI 90490. other id: MEX 705. locality: Progreso, Morelos State. latitude: 19 deg. 00 min. N. elevation: 1500m. remarks: Annual rainfall 1200mm. Wild. Seed.

PI 546823 to 546877-continued

- PI 546865 donor id: 5133. origin: Mexico. collected: November 12, 1980. collector id: 5133. locality: Loam soil, 32km S of Parral, Chihuahua State. latitude: 27 deg. 00 min. N. elevation: 1750m. remarks: Soil pH 6.0. Annual rainfall 460mm. Wild. Seed.
- PI 546866 donor id: 5146. origin: Mexico. collected: November 12, 1980. collector id: 5146. other id: MEX 908. locality: 20km S of Cosala, Sinaloa State. latitude: 24 deg. 00 min. N. elevation: 300m. remarks: Annual rainfall 800mm. Wild. Seed.
- PI 546867 donor id: 5147. origin: Mexico. collected: November 12, 1980. collector id: 5147. other id: MEX 909. locality: Growing out of cliff, 6km S of Cosala, Sinaloa State. latitude: 24 deg. 00 min. N. elevation: 550m. remarks: Annual rainfall 1000mm. Soil pH 6.0. Wild. Seed.
- PI 546868 donor id: 5155. origin: Mexico. collected: September 08, 1980. collector id: 5155. other id: OPI 19358. locality: Open grass turf, 24km E of Alanios along road to Sierra, Tecurahui, Sonora State. remarks: Received from University of Arizona. Perennial. Wild. Seed.
- PI 546869 donor id: 5184. origin: Mexico. collected: September 08, 1980. collector id: 5184. other id: MEX 919. locality: Base of cliff, 8km S of Cosala, Sinaloa State. latitude: 24 deg. 00 min. N. elevation: 500m. remarks: Received from University of Arizona. Annual rainfall 1000mm. Bushy type. Wild. Seed.
- PI 546870 donor id: 5187. origin: Mexico. collected: September 08, 1980. collector id: 5187. other id: MEX 931. locality: 3km W of Escuenapa, Sinaloa State. remarks: Received from University of Arizona. Wild. Seed.
- PI 546871 donor id: 5221. origin: Mexico. collected: November 12, 1980. collector id: 5221. other id: MEX 1099. locality: Dry area, steep slope, decomposing granite, clay loam, 3km W of Salina Cruz, Oaxaca State. remarks: Prostrate plant. Soil pH 6.5. Annual rainfall 1060mm. Wild. Seed.
- PI 546872 donor id: 5222. origin: Mexico. collected: November 12, 1980. collector id: 5222. other id: MEX 1116. locality: 8km SW of Niltepec, on road to Los Tules Milroondas, Niltepec, Oaxaca State. latitude: 16 deg. 00 min. N. elevation: 10m. remarks: Annual rainfall 960mm. Wild. Seed.

PI 546823 to 546877-continued

- PI 546873 donor id: 5241. origin: United States. collected: January 26, 1981. collector id: 5241. locality: Ft. Pierce, Florida. Wild. Seed.
- PI 546874 donor id: 5504. origin: Belize. collected: April 05, 1981. collector id: 5504. locality: At 48MI marker, along both sides of road, lower soil area, hard works, high water table. Wild. Seed.
- PI 546875 donor id: 5527. origin: Belize. collected: April 08, 1981. collector id: 5527. locality: Roadside 4.8km S on road almost opposite turnoff to Spanish lookout bridge road. Wild. Seed.
- PI 546876 donor id: 6215. origin: United States. collected: August 10, 1983. collector id: 10-1A. locality: Roadside just after turn off to Masterpiece Gardens (off 17A), Lake Wales. Wild. Seed.
- PI 546877 donor id: 5178. origin: Senegal. collected: September 08, 1980. collector id: 5178. other id: OPI 4080. locality: San Miguel, Corrientes. remarks: Received from the University of Arizona. Perennial. Wild. Seed.

PI 546878. *Aeschynomene tambacoundensis* Berhaut FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

donor id: 4168. origin: Argentina. collected: August 17, 1984. remarks: From D. Alazard, Office de la Recherche Scientifique, Centre Orstom de Dakar, Boite Postale N 1386 Dalar, Republic of Senegal. Wild. Seed.

PI 546879 to 546881. *Aeschynomene uniflora* E. Meyer FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546879 donor id: 2358. origin: UNKNOWN. collected: March 15, 1978. other id: CPI 52333. remarks: Identified by V. Rudd. Wild. Seed.

PI 546880 donor id: 2991. origin: Australia. collected: August 07, 1978. other id: CPI 52333. other id: IRF 2358. Wild. Seed.

PI 546879 to 546881-continued

PI 546881 donor id: 4248. origin: Tanzania. collected: December 10, 1984. other id: M2870295. locality: In bog up to 80cm, Kibah location. elevation: 5m. remarks: Flowers brown and yellow. Identified by V.E. Rudd. Wild. Seed.

PI 546882 to 546935. *Aeschynomene villosa* Poiret FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546882 donor id: 2860. origin: Colombia. collected: May 1978. other id: CPI 93615. other id: CIAT 9539. locality: Valle del Cauca, Cauca State. Wild. Seed.

PI 546883 donor id: 2869. origin: Colombia. collected: May 1978. other id: CPI 93620. other id: CIAT 9570. locality: Narino State. Wild. Seed.

PI 546884 donor id: 2925. origin: Colombia. collected: April 16, 1978. collector id: 1. other id: CPI 93616. locality: 1920km from Yumbo, 10km before La Cumbre. latitude: 3 deg. 40 min. N. longitude: 76 deg. 30 min. W. Wild. Seed.

PI 546885 donor id: 2927. origin: Colombia. collected: April 16, 1978. collector id: 3. other id: CPI 93617. locality: 5km from IRFL 2926. latitude: 3 deg. 50 min. N. longitude: 76 deg. 33 min. W. elevation: 750m. Wild. Seed.

PI 546886 donor id: 2929. origin: Colombia. collected: April 16, 1978. collector id: 6. other id: CPI 93618. locality: Dry area, 3km from Lake Calimo on road to Buena Ventura. latitude: 3 deg. 52 min. N. longitude: 76 deg. 35 min. W. Wild. Seed.

PI 546887 donor id: 3359. origin: Mexico. collected: March 12, 1980. collector id: 10A. other id: CPI 93647. other id: MEX 348. locality: Pine oak forest, 22km SW of Sola de Vega on road to Escondido Hwy 131, Oaxaca State. latitude: 16 deg. 26 min. N. longitude: 97 deg. 02 min. W. elevation: 2000m. remarks: Annual rainfall 800mm. Wild. Seed.

PI 546888 donor id: 3361. origin: Mexico. collected: March 12, 1980. collector id: 11A. locality: 31km SW of Sola de Vega, Oaxaca State. latitude: 16 deg. 26 min. N. longitude: 97 deg. 02 min. W. elevation: 1500m. remarks: Transplant. Wild. Seed.

PI 546882 to 546935-continued

- PI 546889 donor id: 3444. origin: Mexico. collected: March 25, 1980. collector id: 49B. other id: CPI 93655. locality: 39km S of Santiago Tustla, Veracruz State. latitude: 18 deg. 12 min. N. longitude: 95 deg. 31 min. W. Wild. Seed.
- PI 546890 donor id: 3463. origin: Mexico. collected: March 25, 1980. collector id: 56A. other id: CPI 93607. locality: 10km SW of Coatzacoalcos on hwy, 17km NW of Minatitlan, Veracruz State. latitude: 18 deg. 06 min. N. longitude: 94 deg. 17 min. W. Wild. Seed.
- PI 546891 donor id: 3469. origin: Mexico. collected: March 25, 1980. collector id: 58. other id: CPI 93660. locality: 2km W of hwy marker 50. latitude: 17 deg. 58 min. N. longitude: 94 deg. 04 min. W. Wild. Seed.
- PI 546892 donor id: 3494. origin: Mexico. collected: March 25, 1980. collector id: 65C. locality: 1 km W of intersection S of Estacion, Chonpalpa, Tabasco State. latitude: 17 deg. 37 min. N. longitude: 93 deg. 28 min. W. Wild. Seed.
- PI 546893 donor id: 3517. origin: Mexico. collected: March 28, 1980. collector id: 75C. locality: 0.25km N of Hwy marker 66km, Chiapas State. latitude: 17 deg. 04 min. N. longitude: 92 deg. 51 min. W. elevation: 1500m. Wild. Seed.
- PI 546894 donor id: 3582. origin: Mexico. collected: April 01, 1980. collector id: 97A. other id: CPI 84942. other id: MEX 039. locality: Growing in lawn of private resident, Cuernavaca, Morelos State. latitude: 18 deg. 55 min. N. longitude: 99 deg. 15 min. W. elevation: 1600m. remarks: Annual rainfall 1250mm. Wild. Seed.
- PI 546895 donor id: 3627. origin: Mexico. collected: February 13, 1980. collector id: 270. other id: CPI 86132. other id: MEX 270. locality: 15km N of Guadalajara on road to Zalatelas, Jalisco State. latitude: 21 deg. 00 min. N. elevation: 600m. remarks: Annual rainfall 900mm. Soil pH 6.5. Identified by V.E. Rudd. Wild. Seed.
- PI 546896 donor id: 3638. origin: Mexico. collector id: 3638. other id: CPI 93671. locality: 65km NE of Tehuacan, 6km SW of Huatla de Jimenez, Puente Ferro, Oaxaca State. Wild. Seed.

PI 546882 to 546935-continued

- PI 546897 donor id: 4112. origin: Costa Rica. collected: October 21, 1983. collector id: 21-6A. locality: Hydroelectric Dam, 0.4km E Red School which is 2.9km E or S of Intersection of Paloma-Paraiso road to Cachi, 9km N of Palomo, 0.5km from Cachi, Paraiso-Orosi, Cartago State. latitude: 9 deg. 50 min. N. longitude: 83 deg. 49 min. W. elevation: 1019m. remarks: Annual rainfall 1890mm. Associated species: *A. americana*, *Vigna*, *Centrosema*, *Canavalia*. Wild. Seed.
- PI 546898 donor id: 4297. origin: Mexico. collected: February 25, 1985. collector id: 024E. locality: 1.3km N of Colipa road to Vega de Alatorre, Colipa, Veracruz State. latitude: 19 deg. 56 min. N. longitude: 96 deg. 43 min. W. elevation: 275m. remarks: Annual rainfall 2163mm. Associated species: *A. atropurpureum*, *C. pubescens*, *C. virginianum*, *G. straita*, *S. guianensis*. Wild. Seed.
- PI 546899 donor id: 4334. origin: Mexico. collected: February 28, 1985. collector id: 039A. locality: Dry area, 6.6km S of La Maria Hwy 175, road to Oaxaca-Puerto Angel, La Maria, Oaxaca State. latitude: 16 deg. 40 min. N. longitude: 96 deg. 44 min. W. elevation: 1450m. remarks: Annual rainfall 635mm. Associated species: *A. americana*, *M. atropurpureum*, *Desmodium* sp., *Zornia* sp. Wild. Seed.
- PI 546900 donor id: 4473. origin: Mexico. collected: March 07, 1985. collector id: 085E. locality: Rocky area, 4.3km Ixtapa road to Soyala Hwy 195, Ixtapa, Chiapas State. latitude: 16 deg. 50 min. N. longitude: 92 deg. 55 min. W. elevation: 1140m. remarks: Annual rainfall 1703mm. Soil pH 6.0. Identified by V.E. Rudd. Associated species: *S. humilis*, *D. barbatum*, *A. americana*, *Teramnus uncinatus*, *Stylosanthes* sp., *D. scorpiutis*, *Zornia* sp., *Indigofera* sp., *S. guianensis*. Plants dead. Wild. Seed.
- PI 546901 donor id: 4511. origin: Mexico. collected: March 09, 1985. collector id: 096. locality: Inside entrance Monte Bello Park, road marker 37km, La Trinitaria, Chiapas State. latitude: 16 deg. 04 min. N. longitude: 91 deg. 44 min. W. elevation: 1500m. remarks: Annual rainfall 1038mm. Associated species: *Stylo* sp. (flowering) and *Vigna* sp. (not flowering). Wild. Seed.

PI 546882 to 546935-continued

- PI 546902 donor id: 4514. origin: Mexico. collected: March 09, 1985. collector id: 097C. locality: Red soil, 0.2km E of pavement ending S side of road at Monte Bello Park, La Trinitaria, Chiapas State. latitude: 16 deg. 07 min. N. longitude: 91 deg. 44 min. W. elevation: 1475m. remarks: Annual rainfall 1038mm. Associated species: *Clitoria mexicana* (not flowering), *Desmodium* sp., *S. guianensis*. Wild. Seed.
- PI 546903 donor id: 4515. origin: Mexico. collected: March 09, 1985. collector id: 098A. locality: Pine forest, limestone soil, Monte Bello Park, La Trinitaria State. latitude: 16 deg. 07 min. N. longitude: 91 deg. 44 min. W. elevation: 1475m. remarks: Annual rainfall 1038mm. Plant 0.5 to 1.0m tall. Associated species: *M. gibbsifolium* and small leaved, purple flowered *Vigna*, *Desmodium* sp., *D. virgatus*. Wild. Seed.
- PI 546904 donor id: 4522. origin: Mexico. collected: March 10, 1985. collector id: 101A. locality: Black cracking clay with yellow colored surface soils in large patches, 6.3km E of intersection of Hwy 190 at La Trinitaria and road to Monte Bella near Hwy marker 7km, Chiapas State. latitude: 16 deg. 08 min. N. longitude: 92 deg. 00 min. W. elevation: 1525m. remarks: Annual rainfall 1038mm. Associated species: *Desmodium* sp. Wild. Seed.
- PI 546905 donor id: 4531. origin: Mexico. collected: March 11, 1985. collector id: 104C. locality: 15.3km N of Oxchuc road to Ocosingo Hwy 199, Oxchuc, Chiapas State. latitude: 16 deg. 50 min. N. longitude: 92 deg. 15 min. W. elevation: 1275m. remarks: Annual rainfall 1810mm. Plants to 1 m tall. Associated species: *Teramnus uncinatus*, *Teramnus* sp., *Desmodium* sp., *Vigna elegans*. Wild. Seed.
- PI 546906 donor id: 4543. origin: Mexico. collected: March 11, 1985. collector id: 106I. locality: 8.7km N of Ocosingo, road to San Cristobal, Palenque Hwy 199, Chiapas State. latitude: 16 deg. 58 min. N. longitude: 92 deg. 08 min. W. elevation: 925m. remarks: Annual rainfall 1810mm. Soil pH 5.5. Associated species: *V. luteola*, *M. atropurpureum*, *D. barbatum*, *Vigna elegans*, *Desmodium* sp., *G. striata*, *Teramnus uncinatus*, *A. brasiliana*, *Centrosema* sp., *S. guianensis*. Wild. Seed.

PI 546882 to 546935-continued

- PI 546907 donor id: 4584. origin: Mexico. collected: March 12, 1985. collector id: 119F. locality: Hwy 186 marker 104, 9.9km W on Hwy 186 from intererction of Palerque Hwy 199, Catazaja, Chiapas State. latitude: 17 deg. 40 min. N. longitude: 92 deg. 03 min. W. remarks: Annual rainfall 2032mm. Associated species: D. barbatum, S. barbatum, S. guianensis, Zornia sp., Tephrosia sp., A. americana, M. lathyroides. Wild. Seed.
- PI 546908 donor id: 4677. origin: Mexico. collected: March 12, 1985. collector id: 113G. locality: 3.3km NE intersection road to La Libertad and Hwy 199, Palenque, Chiapas State. latitude: 17 deg. 35 min. N. longitude: 91 deg. 58 min. W. elevation: 50m. remarks: Annual rainfall 2032mm. Associated species: Alysicarpus viginalis, A. americana, D. barbatum, M. gracile, G. striata, S. guianensis. Wild. Seed.
- PI 546909 donor id: 4686. origin: Mexico. collected: March 11, 1985. collector id: 106N. locality: 8.7km N Ocosingo road, San Cristobal-Palenque Hwy 199, Ocosingo, Chiapas State. latitude: 16 deg. 58 min. N. longitude: 92 deg. 08 min. W. elevation: 925m. remarks: Annual rainfall 1810mm. Associated species: V. luteola, M. atropurpureum, D. barbatum, Vigna elegans, Desmodium sp., G. striata. Wild. Seed.
- PI 546910 donor id: 4975. origin: Costa Rica. collected: March 18, 1985. collector id: 18/1. locality: 11km S of Mirador de Paraiso road to Orosi, 4km after turning left to Cachi, Orosi, Cartago State. latitude: 9 deg. 49 min. N. longitude: 83 deg. 50 min. W. elevation: 1075m. remarks: Annual rainfall 2059mm. Plants 1-2m tall, dead. Wild. Seed.
- PI 546911 donor id: 5138. origin: Mexico. collected: November 12, 1980. collector id: 5138. other id: CPI 90811. other id: MEX 797. locality: 11km NW of Tequila on road to Tepic, Tequila, Jalisco State. latitude: 21 deg. 00 min. N. elevation: 1300m. remarks: Annual rainfall 1040mm. Wild. Seed.
- PI 546912 donor id: 5141. origin: Mexico. collected: November 12, 1980. collector id: 5141. other id: CPI 90897. other id: MEX 883. locality: 34km NE of Chiox, Sinaloa State. latitude: 27 deg. 00 min. N. elevation: 1150m. remarks: Annual rainfall 800mm. Soil pH 6.0. Wild. Seed.

PI 546882 to 546935-continued

- PI 546913 donor id: 5172. origin: Mexico. collected: September 08, 1980. collector id: 5172. other id: OPI 80068. locality: Loam soil, oak-pine hillside, 28.8km NE of Choix, 10.4km NE of El Cajan, Sinaloa State. latitude: 26 deg. 50 min. N. longitude: 108 deg. 11 min. W. elevation: 1430m. remarks: Received from University of Arizona. Wild. Seed.
- PI 546914 donor id: 5192. origin: Mexico. collected: September 08, 1980. collector id: 5192. other id: MEX 995. locality: Loam soil, pine forest grassland, 63km NE of Concordia on road to Durango, Sinaloa State. latitude: 24 deg. 00 min. N. elevation: 1900m. remarks: Annual rainfall 1200mm. Soil pH 5.5. Received from the University of Arizona. Identified by V.E. Rudd. Possibly *A. villosa* var *longifolia*. Wild. Seed.
- PI 546915 donor id: 5209. origin: Mexico. collected: September 12, 1980. collector id: 5209. other id: CPI 91219. other id: MEX 1056. locality: 63km from Mexico City on road to Cuernavaca, Morelos State. latitude: 19 deg. 00 min. N. elevation: 2100m. remarks: Annual rainfall 1500mm. Wild. Seed.
- PI 546916 donor id: 5210. origin: Mexico. collected: September 12, 1980. collector id: 5210. other id: CPI 91221. other id: MEX 1058. locality: 74km from Mexico City to Cuernavaca, Morelos State. latitude: 19 deg. 00 min. N. elevation: 1900m. remarks: Annual rainfall 1300mm. Wild. Seed.
- PI 546917 donor id: 5214. origin: Mexico. collected: September 12, 1980. collector id: 5214. other id: CPI 91235. other id: MEX 1072. locality: Wet seepage shale, 18km W of Seultepec on road to Tejpilco, Mexico State. latitude: 19 deg. 00 min. N. elevation: 1350m. remarks: Annual rainfall 1600mm. Perennial. Wild. Seed.
- PI 546918 donor id: 5216. origin: Mexico. collected: September 12, 1980. collector id: 5216. other id: MEX 1084. locality: 10km NE of Tejpilco on road to Temascaltepec, Tejpilco, Mexico State. latitude: 19 deg. 00 min. N. elevation: 1500m. remarks: Annual rainfall 1700mm. Wild. Seed.
- PI 546919 donor id: 5219. origin: Mexico. collected: September 12, 1980. collector id: 5219. locality: Acid pine soils, 0.25km N of Hwy marker 66km. elevation: 1500m. Wild. Seed.

PI 546882 to 546935-continued

- PI 546920 donor id: 6242. origin: Guatemala. collected: August 24, 1983. other id: OPI 2740056. locality: Canyon or Rio Seligua in El Tapon near Monos Bridge, 40km NE of Huehuetuango. elevation: 1200m. Wild. Seed.
- PI 546921 donor id: 6250. origin: Mexico. collected: August 24, 1983. other id: OPI 218840. locality: S. Lake Cuitzeo, road from Morelia to Cuitzeo, Michoacan State. Wild. Seed.
- PI 546922 donor id: 6343. origin: Costa Rica. collected: February 12, 1988. collector id: 12/5B. locality: 9.3km N from Hotel Bouganvillea, road to Guapiles via tunnel, San Jose State. latitude: 10 deg. 02 min. N. longitude: 84 deg. 02 min. W. elevation: 1400m. remarks: Plants and fruit green. Associated species: *T. uncinatus*, *S. villosa*, *P. lunatus*, *D. intortum*. Wild. Seed.
- PI 546923 donor id: 6352. origin: Costa Rica. collected: February 15, 1988. collector id: 15/2D. locality: 2km S of Penas Blancas, Guanacast State. latitude: 11 deg. 12 min. N. longitude: 85 deg. 37 min. W. elevation: 125m. remarks: Plants green. Associated species: *Desmathus virgatus*, *V. vexillata*, *T. uncinatus*, *Zornia* species, *C. macrocarpum*, *D. barbatum*, *A. vaginalus*, *S. humilis*. Wild. Seed.
- PI 546924 donor id: 6508. origin: Costa Rica. collected: January 31, 1989. collector id: 31-2A. locality: 20.0km S of intersection of Ruta 1 on Ruta 18, Tempisque Ferry, Guanacaste State. latitude: 10 deg. 14 min. N. longitude: 85 deg. 09 min. W. elevation: 75m. remarks: Annual rainfall 1775mm. Wild. Seed.
- PI 546925 donor id: 6519. origin: Costa Rica. collected: January 31, 1989. collector id: 31-5E. locality: 1.3km S of Curime, Guanacaste State. latitude: 10 deg. 07 min. N. longitude: 85 deg. 28 min. W. elevation: 150m. remarks: Annual rainfall 1978mm. Associated species *S. humilis*, *A. american*, *A. villosa*, *C. pubescens*. Wild. Seed.
- PI 546926 donor id: 4332. origin: Mexico. collected: February 28, 1985. collector id: 038A. locality: 1.1km N of 2.5 concrete road marker Hwy 175, Oaxaca- Tuxtepec, 45km N of Guelatao, Amatlan, Oaxaca State. latitude: 17 deg. 25 min. N. longitude: 96 deg. 30 min. W. elevation: 2250m. remarks: Annual rainfall 600mm. Plants abundant, dead. Identified by V.E. Rudd. Associated species: *M. atropurpureum*, *Desmodium* sp. received as: *A. villosa* var *longifolia*. Wild. Seed.

PI 546882 to 546935-continued

- PI 546927 donor id: 2807. origin: Panama. collected: May 1978.
other id: CPI 93619. other id: CIAT 7008. received as:
A. villosa var villosa. Wild. Seed.
- PI 546928 donor id: 3195. origin: Australia. collected: November
20, 1978. other id: CPI 93644. other id: CIAT 9503.
locality: Cape York, Queensland State. received as: A.
villosa var villosa. Wild. Seed.
- PI 546929 donor id: 3569. origin: Mexico. collected: April 01,
1980. collector id: 92B. other id: CPI 93621.
locality: 0.25km W of W. Corral Falso sign, off Hwy 140
to Pinoltepec, Veracruz State. latitude: 19 deg. 24 min.
N. longitude: 96 deg. 36 min. W. received as: A.
villosa var villosa. Wild. Seed.
- PI 546930 donor id: 4258. origin: Mexico. collected: February 23,
1985. collector id: 004A. locality: Area heavily grazed
by goats and cattle, 1 km off Maltrata turnoff road
Orizaba to Puebla, Maltrata, Veracruz State. latitude:
18 deg. 51 min. N. longitude: 97 deg. 15 min. W.
elevation: 1750m. remarks: Annual rainfall 2117mm. Soil
pH 8.0. Identified by V. E. Rudd. Associated species:
Zornia sp., M. heterophyllum, Medicago sp. (black medic).
received as: A. villosa var villosa. Wild. Seed.
- PI 546931 donor id: 4435. origin: Mexico. collected: March 05,
1985. collector id: 072F. locality: Pine forest,
granite rock, grazed area, 0.4km from road to La Mina
Microwave Tower which intersection Inter State, 3km E of
La perlas, Hwy 190, Las Perlas, Chiapas State. latitude:
16 deg. 28 min. N. longitude: 94 deg. 01 min. W.
elevation: 775m. remarks: Annual rainfall 1773mm.
Identified by V.E. Rudd. Associated species: D. barbatum,
S. guianensis, S. humilis, A. americana, Aeschynomene sp.
Plants dead. received as: A. Villosa var villosa. Wild.
Seed.
- PI 546932 donor id: 4485. origin: Mexico. collected: March 08,
1985. collector id: 090A. locality: Limestone rock
outcropping, road marker 109 Tuxtla-Comitan Hwy 190, 6km
N Teopisca, Chiapas State. latitude: 16 deg. 34 min. N.
longitude: 92 deg. 30 min. W. elevation: 2000m.
remarks: Annual rainfall 1201mm. Identified by V.E. Rudd.
Associated species: M. gibbsifolium, Canavalia sp.,
Rhynchosia sp. received as: A. villosa var villosa.
Wild. Seed.

PI 546882 to 546935-continued

PI 546933 donor id: 4575. origin: Mexico. collected: March 12, 1985. collector id: 117C. locality: 3.3km S on Hwy 199 road to Palenque from Hwy 186, Catazaja, Chiapas State. latitude: 17 deg. 42 min. N. longitude: 92 deg. 02 min. W. elevation: 20m. remarks: Annual rainfall 2032mm. Identified by V.E. Rudd. Associated species: *D. barbatum*, *S. guianensis*. received as: *A. villosa* var *villosa*. Wild. Seed.

PI 546934 donor id: 4669. origin: Mexico. collected: March 17, 1985. collector id: 149B. locality: Sand hills, road marker 62 W of Lerdo de Tejada Hwy 180, 11km E of toll bridge at Alvarado, Veracruz State. latitude: 18 deg. 45 min. N. longitude: 95 deg. 41 min. W. elevation: 25m. remarks: Annual rainfall 1710mm. Identified by V.E. Rudd. Associated species: *M. atropurpureum*, *Zornia* sp. received as: *A. villosa* var *villosa*. Wild. Seed.

PI 546935 donor id: 5145. origin: Mexico. collected: November 12, 1980. collector id: 5145. other id: MEX 907. locality: 20km S of Cosala, Sinaloa State. latitude: 24 deg. 00 min. N. elevation: 300m. remarks: Annual rainfall 800mm. Identified by V.E. Rudd. received as: *A. villosa* var *villosa*. Wild. Seed.

PI 546936 to 546938. *Aeschynomene viscidula* Michaux FABACEAE

Donated by: Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received August 1990.

PI 546936 donor id: 3200. origin: Venezuela. other id: CIAT 9895. locality: Arzoategui. Wild. Seed.

PI 546937 donor id: 5168. origin: United States. collector id: 5168. other id: OPI 73305. locality: Corpus Bay, spartina grassland, sandy soil, 16km E of Corpus Christi, Nueces, Texas. remarks: Received from the University of Arizona. Wild. Seed.

PI 546938 donor id: 5176. origin: United States. collector id: 5176. other id: OPI 33379. locality: 9.6km SSE of Dennellon on long leaf pine, turkey-oak sand ridge, Citrus, Florida. remarks: Received from the University of Arizona. Wild. Seed.

PI 546939. *Phyllostachys aureosulcata* McClure POACEAE Bamboo

Donated by: PGQO, National Germplasm Resources Lab., USDA-ARS, 11601 Old Pond Drive, Glenn Dale, Maryland, United States. Received December 27, 1990.

origin: United States. **cultivar:** HARBIN. **pedigree:** Sport from a zigzag culm type (PI 70741) previously collected from the Plant Introduction Garden (now Plant Materials Center, USDA-SCS), Brooksville, Florida. **remarks:** Culms and branches yellow. Green stripes random, run length of internodes, depressed forming a rough multi-grooved surface, variable in width and number on each internode. Leaves typical green. Older culms sometime show a rich, red-brown color in sun-exposed areas. Perennial. Cultivar. Plant.

PI 546940 to 546949. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Haunold, A., Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon, United States; and Oregon Agr. Exp. Sta.. **remarks:** Ten Hop Germplasm. Received January 31, 1991.

PI 546940 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-18. **pedigree:** 21397 x 64035M (4x Hallertauer m.f. x Zattler Seedling). **other id:** GP-18. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity early. Maximum anthesis July 10. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.

PI 546941 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-19. **pedigree:** 21397 x 64035M (4x Hallertauer m.f. x Zattler Seedling). **other id:** GP-19. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity med. early. Maximum anthesis July 15. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.

PI 546940 to 546949-continued

- PI 546942 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-20. **pedigree:** 21397 x 21362M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-20. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity early. Maximum anthesis July 10. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.
- PI 546943 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-21. **pedigree:** 21397 x 21362M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-21. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity early. Maximum anthesis July 10. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.
- PI 546944 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-22. **pedigree:** 21397 x 21362M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-22. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity med. early. Maximum anthesis July 15. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.

- PI 546945 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-23. **pedigree:** 21397 x 21362M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-23. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity early. Maximum anthesis July 12. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.
- PI 546946 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-24. **pedigree:** 21397 x 21362M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-24. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity early. Maximum anthesis July 12. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.
- PI 546947 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-25. **pedigree:** 21397 x 21381M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-25. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity very early. Maximum anthesis July 8. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.

PI 546948 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-26. **pedigree:** 21397 x 21381M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-26. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity med. early. Maximum anthesis July 15. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.

PI 546949 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-27. **pedigree:** 21397 x 21381M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-27. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity med. early. Maximum anthesis July 15. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.

PI 546950 to 546954. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Kenny, S.T., Washington Agricultural Research Center, Washington State University, Prosser, Washington, United States. **remarks:** Five Hop Germplasms For Hop Downy Mildew Research. Received January 31, 1991.

PI 546950 **origin:** United States. **origin institute:** Washington Agricultural Research Center, Washington State University, Prosser, Washington 99350. **cultivar:** Ph1. **pedigree:** Open pollinated seed from clone of Hersbrucker. **other id:** GP-28. **source:** Crop Sci. 31(5):1391 1991. **group:** CSR-HOP. **locality:** Harrah, Washington. **remarks:** Unique and valuable for hop downy mildew research due to ability to survive hop downy mildew infection every year until mid-summer. (Systemically infected shoots 38%). Perennial. Breeding Material. Rhizome.

PI 546950 to 546954-continued

PI 546951 **origin:** United States. **origin institute:** Washington Agricultural Research Center, Washington State University, Prosser, Washington 99350. **cultivar:** Ph2. **pedigree:** Open pollinated seed from clone of Hersbrucker. **other id:** GP-29. **source:** Crop Sci. 31(5):1391 1991. **group:** CSR-HOP. **remarks:** Unique and valuable for hop downy mildew research due to ability to survive hop downy mildew infection every year until mid-summer. (Systemically infected shoots 26%). Perennial. Breeding Material. Rhizome.

PI 546952 **origin:** United States. **origin institute:** Washington Agricultural Research Center, Washington State University, Prosser, Washington 99350. **cultivar:** Ph3. **pedigree:** Open pollinated seed from clone of Hersbrucker. **other id:** GP-30. **source:** Crop Sci. 31(5):1391 1991. **group:** CSR-HOP. **remarks:** Unique and valuable for hop downy mildew research due to ability to survive hop downy mildew infection every year until mid-summer. (Systemically infected shoots 21%). Perennial. Breeding Material. Rhizome.

PI 546953 **origin:** United States. **origin institute:** Washington Agricultural Research Center, Washington State University, Prosser, Washington 99350. **cultivar:** Ph4. **pedigree:** Open pollinated seed from clone of Hersbrucker. **other id:** GP-31. **source:** Crop Sci. 31(5):1391 1991. **group:** CSR-HOP. **remarks:** Unique and valuable for hop downy mildew research due to ability to survive hop downy mildew infection every year until mid-summer. (Systemically infected shoots 35%). Perennial. Breeding Material. Rhizome.

PI 546954 **origin:** United States. **origin institute:** Washington Agricultural Research Center, Washington State University, Prosser, Washington 99350. **cultivar:** Ph5. **pedigree:** Open pollinated seed from clone of Hersbrucker. **other id:** GP-32. **source:** Crop Sci. 31(5):1391 1991. **group:** CSR-HOP. **remarks:** Unique and valuable for hop downy mildew research due to ability to survive hop downy mildew infection every year until mid-summer. (Systemically infected shoots 14%). Perennial. Breeding Material. Rhizome.

PI 546955 to 546956. *Eleusine coracana* (L.) Gaertn. POACEAE Finger millet

Donated by: Denton, I.R., IBPGR, Rome, Italy; and Toll, J.A., IBPGR, Rome, Italy. **remarks:** Received through IPBGR, Rome Italy. Received January 29, 1991.

PI 546955 to 546956-continued

PI 546955 donor id: D004C. origin: Kenya. local name: Livanse.
collector id: D004C. locality: Shikulu village, Kakamega
District, Western Province. remarks: Part of previous
collection received November, 1978 (PI 521364 - PI
521573). Wild. Seed.

PI 546956 donor id: D005C. origin: Kenya. collector id: D005C.
locality: Musoli village, Kabamega District, Western
Province. remarks: Part of previous collection received
November, 1978 (PI 521364 - PI 521573). Wild. Seed.

PI 546957 to 546958. *Glycine tomentella* Hayata FABACEAE Perennial
soybean

Donated by: Lawn, R.J., Division of Plant Industry, CSIRO, Canberra
City, Aus. Cap. Terr., Australia. Received November 28, 1990.

PI 546957 origin: Indonesia. collected: July 15, 1988. locality:
Collected on Timor Island, Indonesia. Perennial. Wild.
Seed.

PI 546958 origin: Indonesia. collected: July 15, 1988. locality:
Collected on Timor Island, Indonesia. Perennial. Wild.
Seed.

PI 546959 to 546960. *Glycine canescens* F. J. Herm. FABACEAE Perennial
soybean

Donated by: Brown, A.D.H., CSIRO, Division of Plant Industry, GPO
1600, Canberra City, Aus. Cap. Terr., Australia. Received November
28, 1990.

PI 546959 origin: Australia. collected: October 26, 1985.
locality: Collected at Weetootla Gorge, 9km northwest of
Balcanoona Headquarters, South Australia. latitude: 30
deg. 30 min. S. longitude: 139 deg. 15 min. E.
elevation: 250m. Perennial. Wild. Seed.

PI 546960 origin: Australia. collected: October 30, 1985.
locality: Collected at Lake Gairdnes, 18.4km west of Mt.
Ive Tum, South Australia. latitude: 32 deg. 23 min. S.
longitude: 135 deg. 55 min. E. elevation: 180m.
Perennial. Wild. Seed.

PI 546961 to 546968. *Glycine clandestina* Wendl. FABACEAE Perennial
soybean

Donated by: Brown, A.D.H., CSIRO, Division of Plant Industry, GPO
1600, Canberra City, Aus. Cap. Terr., Australia. Received November
28, 1990.

- PI 546961 origin: Australia. collected: August 09, 1985.
locality: Collected at Dogwood Creek, 1km west of Miles,
Queensland. latitude: 26 deg. 39 min. S. longitude: 150
deg. 11 min. E. elevation: 300m. Perennial. Wild.
Seed.
- PI 546962 origin: Australia. collected: August 11, 1985.
locality: Collected Carnarvor Gorge, path to lookout at
entrance. latitude: 25 deg. 04 min. S. longitude: 148
deg. 15 min. E. elevation: 400m. Perennial. Wild.
Seed.
- PI 546963 origin: Australia. collected: August 13, 1985.
locality: Collected at Emerald Airport, 7km south of
Emerald, Queensland. latitude: 23 deg. 34 min. S.
longitude: 148 deg. 10 min. E. elevation: 190m.
Perennial. Wild. Seed.
- PI 546964 origin: Australia. collected: August 17, 1985.
locality: Collected at Charleville Airport, 2km southeast
of Charleville, Queensland. latitude: 26 deg. 25 min. S.
longitude: 146 deg. 16 min. E. elevation: 280m.
Perennial. Wild. Seed.
- PI 546965 origin: Australia. collected: August 19, 1985.
locality: Collected at Drillhan Creek, Drillham, 20km
west of Miles, Queensland. latitude: 26 deg. 39 min. S.
longitude: 149 deg. 59 min. E. elevation: 320m.
Perennial. Wild. Seed.
- PI 546966 origin: Australia. collected: August 21, 1985.
locality: Collected at Stuart River, 15km southwest of
Kingaroy, Queensland. latitude: 26 deg. 36 min. S.
longitude: 151 deg. 46 min. E. elevation: 350m.
Perennial. Wild. Seed.
- PI 546967 origin: Australia. collected: October 26, 1985.
locality: Collected at Barrarannana Gorge, 12km north of
Arkaroola, South Australia. latitude: 30 deg. 18 min. S.
longitude: 139 deg. 25 min. E. elevation: 400m.
Perennial. Wild. Seed.
- PI 546968 origin: Australia. collected: October 28, 1985.
locality: Collected at Bunyerroo Creek, 47km southeast of
Parachilna, South Australia. latitude: 31 deg. 23 min.
S. longitude: 138 deg. 35 min. E. elevation: 350m.
Perennial. Wild. Seed.

PI 546969 to 546972. *Glycine latifolia* (Benth.) C. Newell & Hymowitz
FABACEAE Perennial soybean

Donated by: Brown, A.D.H., CSIRO, Division of Plant Industry, GPO
1600, Canberra City, Aus. Cap. Terr., Australia. Received November
28, 1990.

PI 546969 **origin:** Australia. **collected:** August 09, 1985.
locality: Collected at Warra, 18.2km west of Macalister,
Queensland. **latitude:** 26 deg. 56 min. S. **longitude:** 150
deg. 56 min. E. **elevation:** 320m. Perennial. Wild.
Seed.

PI 546970 **origin:** Australia. **collected:** August 26, 1985.
locality: Collected at Gurley Creek, 27km south of Moree,
New South Wales. **latitude:** 29 deg. 41 min. S.
longitude: 149 deg. 45 min. E. **elevation:** 220m.
Perennial. Wild. Seed.

PI 546971 **origin:** Australia. **collected:** August 11, 1985.
locality: Collected at Carnarvon Gorge, on path of
amphitheatre, Queensland. **latitude:** 25 deg. 03 min. S.
longitude: 148 deg. 12 min. E. **elevation:** 420m.
Perennial. Wild. Seed.

PI 546972 **origin:** Australia. **collected:** August 13, 1985.
locality: Collected at Mt. Sirius, 50km northwest of
Rolleston, Queensland. **latitude:** 24 deg. 13 min. S.
longitude: 148 deg. 13 min. E. **elevation:** 350m.
Perennial. Wild. Seed.

PI 546973 to 546974. *Glycine microphylla* (Benth.) Tind. FABACEAE
Perennial soybean

Donated by: Brown, A.D.H., CSIRO, Division of Plant Industry, GPO
1600, Canberra City, Aus. Cap. Terr., Australia. Received November
28, 1990.

PI 546973 **origin:** Australia. **collected:** August 20, 1985.
locality: Collected at Bunya Mountain National Park,
54.3km northeast of Dalby, Queensland. **latitude:** 26 deg.
54 min. S. **longitude:** 151 deg. 38 min. E. **elevation:**
1000m. Perennial. Wild. Seed.

PI 546974 **origin:** Australia. **collected:** August 24, 1985.
locality: Collected at The Twins Mountains, 29.4km west
of Boonah, toward Warwick, Queensland. **latitude:** 28 deg.
02 min. S. **longitude:** 152 deg. 27 min. E. **elevation:**
250m. Perennial. Wild. Seed.

PI 546975 to 547034. *Glycine tabacina* (Labill.) Benth. FABACEAE
Perennial soybean

Donated by: Brown, A.D.H., CSIRO, Division of Plant Industry, GPO
1600, Canberra City, Aus. Cap. Terr., Australia. Received November
28, 1990.

PI 546975 **origin:** Australia. **collected:** August 15, 1985.
locality: Collected at Gap Creek overflow, 16.6km west of
Anakie, Queensland. **latitude:** 23 deg. 38 min. S.
longitude: 147 deg. 36 min. E. **elevation:** 230m.
Perennial. Wild. Seed.

PI 546976 **origin:** Australia. **collected:** August 09, 1985.
locality: Collected 5.4km west of Dalby, towards
Chinchilla, Queensland. **latitude:** 27 deg. 10 min. S.
longitude: 151 deg. 12 min. E. **elevation:** 330m.
Perennial. Wild. Seed.

PI 546977 **origin:** Australia. **collected:** August 09, 1985.
locality: Collected 0.7km east of Warra, 18.2km west of
Macalistar, Queensland. **latitude:** 26 deg. 56 min. S.
longitude: 150 deg. 55 min. E. **elevation:** 320m.
Perennial. Wild. Seed.

PI 546978 **origin:** Australia. **collected:** August 09, 1985.
locality: Collected at Chinchilla, 0.4km east of
Saleyards, Queensland. **latitude:** 26 deg. 46 min. S.
longitude: 150 deg. 40 min. E. **elevation:** 300m.
Perennial. Wild. Seed.

PI 546979 **origin:** Australia. **collected:** August 10, 1985.
locality: Collected 15.4km north of Wandoan towards
Taroom, Queensland. **latitude:** 25 deg. 59 min. S.
longitude: 149 deg. 55 min. E. **elevation:** 260m.
Perennial. Wild. Seed.

PI 546980 **origin:** Australia. **collected:** August 10, 1985.
locality: Collected near Dawson River, 0.6km west of
Taroom, Queensland. **latitude:** 25 deg. 38 min. S.
longitude: 149 deg. 47 min. E. **elevation:** 190m.
Perennial. Wild. Seed.

PI 546981 **origin:** Australia. **collected:** August 10, 1985.
locality: Collected at Glengarry, 11km east of Mjune,
Queensland. **latitude:** 25 deg. 51 min. S. **longitude:** 148
deg. 41 min. E. **elevation:** 400m. Perennial. Wild.
Seed.

PI 546982 **origin:** Australia. **collected:** August 10, 1985.
locality: Collected at Mjune Creek, 1km west of Mjune,
Queensland. **latitude:** 25 deg. 51 min. S. **longitude:** 148
deg. 34 min. E. **elevation:** 390m. Perennial. Wild.
Seed.

PI 546975 to 547034-continued

- PI 546983 **origin:** Australia. **collected:** August 11, 1985.
locality: Collected at Carnarvon Creek, 27km west of Wyseby, Queensland. **latitude:** 25 deg. 01 min. S.
longitude: 148 deg. 18 min. E. **elevation:** 300m.
Perennial. Wild. Seed.
- PI 546984 **origin:** Australia. **collected:** August 14, 1985.
locality: Collected 14.7km northwest of Capella beside creek, Queensland. **latitude:** 23 deg. 03 min. S.
longitude: 147 deg. 54 min. E. **elevation:** 240m.
Perennial. Wild. Seed.
- PI 546985 **origin:** Australia. **collected:** August 14, 1985.
locality: Collected near Nogoia River, 2km east of Emerald, Queensland. **latitude:** 23 deg. 32 min. S.
longitude: 148 deg. 01 min. E. **elevation:** 180m.
Perennial. Wild. Seed.
- PI 546986 **origin:** Australia. **collected:** August 16, 1985.
locality: Collected near Barcoo River, 40.5km southeast of Blackall, towards Tambo, Queensland. **latitude:** 24 deg. 35 min. S. **longitude:** 145 deg. 48 min. E.
elevation: 330m. Perennial. Wild. Seed.
- PI 546987 **origin:** Australia. **collected:** August 17, 1985.
locality: Collected at Bedurie Creek, 80.8km southeast of Tambo, Queensland. **latitude:** 25 deg. 30 min. S.
longitude: 146 deg. 36 min. E. **elevation:** 410m.
Perennial. Wild. Seed.
- PI 546988 **origin:** Australia. **collected:** August 18, 1985.
locality: Collected at Amby Creek, Amby, 22.9km east of Mitchell, Queensland. **latitude:** 26 deg. 33 min. S.
longitude: 148 deg. 11 min. E. **elevation:** 330m.
Perennial. Wild. Seed.
- PI 546989 **origin:** Australia. **collected:** August 20, 1985.
locality: Collected at Benair 9.6km northeast of Kumbia, Queensland. **latitude:** 26 deg. 39 min. S. **longitude:** 151 deg. 43 min. E. **elevation:** 500m. Perennial. Wild. Seed.
- PI 546990 **origin:** Australia. **collected:** August 10, 1985.
locality: Collected at Kinnoule Creek, 16.9km west of Taroon, Queensland. **latitude:** 25 deg. 41 min. S.
longitude: 149 deg. 38 min. E. **elevation:** 200m.
Perennial. Wild. Seed.

PI 546975 to 547034-continued

- PI 546991 **origin:** Australia. **collected:** August 11, 1985.
locality: Collected near Dawson River, second crossing,
56.4km north of Mjune, Queensland. **latitude:** 25 deg. 23
min. S. **longitude:** 148 deg. 38 min. E. **elevation:** 450m.
Perennial. Wild. Seed.
- PI 546992 **origin:** Australia. **collected:** August 11, 1985.
locality: Collected at Bullaro Creek, 72.6km north of
Mjune, Queensland. **latitude:** 25 deg. 14 min. S.
longitude: 148 deg. 37 min. E. **elevation:** 500m.
Perennial. Wild. Seed.
- PI 546993 **origin:** Australia. **collected:** August 12, 1985.
locality: Collected at Baffle Creek, 32km north of Mjune,
Queensland. **latitude:** 25 deg. 35 min. S. **longitude:** 148
deg. 42 min. E. **elevation:** 450m. Perennial. Wild.
Seed.
- PI 546994 **origin:** Australia. **collected:** August 12, 1985.
locality: Collected 14km south of Wyesby, 93.6km from
Mjune toward Rolleston, Queensland. **latitude:** 25 deg. 06
min. S. **longitude:** 148 deg. 35 min. E. **elevation:** 290m.
Perennial. Wild. Seed.
- PI 546995 **origin:** Australia. **collected:** August 12, 1985.
locality: Collected at Aldinga Droughtmaster Stud, 44km
southwest of Rolleston, Queensland. **latitude:** 24 deg. 46
min. S. **longitude:** 148 deg. 22 min. E. **elevation:** 250m.
Perennial. Wild. Seed.
- PI 546996 **origin:** Australia. **collected:** August 12, 1985.
locality: Collected at Sandy Creek, 40km west southwest
of Rolleston, Queensland. **latitude:** 24 deg. 38 min. S.
longitude: 148 deg. 20 min. E. **elevation:** 213m.
Perennial. Wild. Seed.
- PI 546997 **origin:** Australia. **collected:** August 12, 1985.
locality: Collected at Consuelo Creek, 25km west
southwest of Rolleston, Queensland. **latitude:** 24 deg. 39
min. S. **longitude:** 148 deg. 29 min. E. **elevation:** 300m.
Perennial. Wild. Seed.
- PI 546998 **origin:** Australia. **collected:** August 13, 1985.
locality: Collected 4.8km from Springsure, towards
Emerald, Queensland. **latitude:** 24 deg. 05 min. S.
longitude: 148 deg. 06 min. E. **elevation:** 300m.
Perennial. Wild. Seed.

PI 546975 to 547034-continued

- PI 546999 **origin:** Australia. **collected:** August 15, 1985.
locality: Collected at Medway Creek, 95.6km west of Emerald, Queensland. **latitude:** 23 deg. 39 min. S.
longitude: 147 deg. 17 min. E. **elevation:** 350m.
Perennial. Wild. Seed.
- PI 547000 **origin:** Australia. **collected:** August 15, 1985.
locality: Collected at Native Companion Creek, 7km east of Alpha, Queensland. **latitude:** 23 deg. 39 min. S.
longitude: 146 deg. 42 min. E. **elevation:** 350m.
Perennial. Wild. Seed.
- PI 547001 **origin:** Australia. **collected:** August 15, 1985.
locality: Collected at Jericho, Jordan River, town dam, Queensland. **latitude:** 23 deg. 36 min. S. **longitude:** 146 deg. 08 min. E. **elevation:** 340m. Perennial. Wild. Seed.
- PI 547002 **origin:** Australia. **collected:** August 16, 1985.
locality: Collected near the Barcoo River, 0.5km north of Tambo, Queensland. **latitude:** 24 deg. 53 min. S.
longitude: 146 deg. 15 min. E. **elevation:** 415m.
Perennial. Wild. Seed.
- PI 547003 **origin:** Australia. **collected:** August 17, 1985.
locality: Collected at Barduthulla, Warrego River, 40km northeast of Augathella, Queensland. **latitude:** 26 deg. 05 min. S. **longitude:** 146 deg. 25 min. E. **elevation:** 350m. Perennial. Wild. Seed.
- PI 547004 **origin:** Australia. **collected:** August 17, 1985.
locality: Collected near the Warrego River, Charleville, near bridge at edge of town, Queensland. **latitude:** 26 deg. 24 min. S. **longitude:** 146 deg. 14 min. E. **elevation:** 400m. Perennial. Wild. Seed.
- PI 547005 **origin:** Australia. **collected:** August 18, 1985.
locality: Collected at Angellala Creek, 65km east of Charleville, Queensland. **latitude:** 26 deg. 25 min. S. **longitude:** 146 deg. 53 min. E. **elevation:** 400m.
Perennial. Wild. Seed.
- PI 547006 **origin:** Australia. **collected:** August 18, 1985.
locality: Collected at Mungallala Creek, 42.9km east of Morven, Queensland. **latitude:** 26 deg. 27 min. S. **longitude:** 147 deg. 33 min. E. **elevation:** 440m.
Perennial. Wild. Seed.

PI 546975 to 547034-continued

- PI 547007 **origin:** Australia. **collected:** August 18, 1985.
locality: Collected at Bungeworgorai Creek, 74.7km east of Mitchell, Queensland. **latitude:** 26 deg. 36 min. S. **longitude:** 148 deg. 41 min. E. **elevation:** 300m. Perennial. Wild. Seed.
- PI 547008 **origin:** Australia. **collected:** August 18, 1985.
locality: Collected at Roma Airport, 2km north of Roma, Queensland. **latitude:** 26 deg. 33 min. S. **longitude:** 148 deg. 46 min. E. **elevation:** 310m. Perennial. Wild. Seed.
- PI 547009 **origin:** Australia. **collected:** August 19, 1985.
locality: Collected at Wallumbilla Creek, 39.2km east of Roma, Queensland. **latitude:** 26 deg. 35 min. S. **longitude:** 149 deg. 10 min. E. **elevation:** 330m. Perennial. Wild. Seed.
- PI 547010 **origin:** Australia. **collected:** August 19, 1985.
locality: Collected at Chinchilla Weir, Condamine River, 8.4km southwest of Chinchilla, Queensland. **latitude:** 26 deg. 47 min. S. **longitude:** 150 deg. 34 min. E. **elevation:** 300m. Perennial. Wild. Seed.
- PI 547011 **origin:** Australia. **collected:** August 19, 1985.
locality: Collected at Myall Creek, 46km north east of Dalby, Queensland. **latitude:** 26 deg. 57 min. S. **longitude:** 151 deg. 37 min. E. **elevation:** 560m. Perennial. Wild. Seed.
- PI 547012 **origin:** Australia. **collected:** August 20, 1985.
locality: Collected at Wengen Creek, 11km west of Maidenwell, Queensland. **latitude:** 26 deg. 50 min. S. **longitude:** 151 deg. 42 min. E. **elevation:** 550m. Perennial. Wild. Seed.
- PI 547013 **origin:** Australia. **collected:** August 20, 1985.
locality: Collected at Middle Creek, 3.2km west of Maidenwell, Queensland. **latitude:** 26 deg. 50 min. S. **longitude:** 151 deg. 45 min. E. **elevation:** 567m. Perennial. Wild. Seed.
- PI 547014 **origin:** Australia. **collected:** August 21, 1985.
locality: Collected at Tingoorra, 22.4km, north of Kingaroy, toward Murgon, Queensland. **latitude:** 26 deg. 22 min. S. **longitude:** 151 deg. 48 min. E. **elevation:** 500m. Perennial. Wild. Seed.

PI 546975 to 547034-continued

- PI 547015 **origin:** Australia. **collected:** August 21, 1985.
locality: Collected at Wide Bay Creek, 9km southwest of Kilkivan, Queensland. **latitude:** 26 deg. 09 min. S.
longitude: 152 deg. 12 min. E. **elevation:** 167m.
Perennial. Wild. Seed.
- PI 547016 **origin:** Australia. **collected:** August 24, 1985.
locality: Collected at Mt. Moy, 24.7km west of Beaudesert to Boonah, Queensland. **latitude:** 27 deg. 56 min. S.
longitude: 152 deg. 47 min. E. **elevation:** 100m.
Perennial. Wild. Seed.
- PI 547017 **origin:** Australia. **collected:** August 24, 1985.
locality: Collected at The Twins Mountain, 29.4km from Boonah to Warwick, Queensland. **latitude:** 28 deg. 02 min. S. **longitude:** 152 deg. 27 min. E. **elevation:** 250m.
Perennial. Wild. Seed.
- PI 547018 **origin:** Australia. **collected:** August 25, 1985.
locality: Collected at McMtyre River, Goomdiwindi, growing near bridge, Queensland. **latitude:** 28 deg. 32 min. S. **longitude:** 150 deg. 17 min. E. **elevation:** 250m.
Perennial. Wild. Seed.
- PI 547019 **origin:** Australia. **collected:** August 26, 1985.
locality: Collected at Marshall's Ponds, 15km north of Moree, Queensland. **latitude:** 29 deg. 19 min. S. **longitude:** 150 deg. 11 min. E. **elevation:** 220m.
Perennial. Wild. Seed.
- PI 547020 **origin:** Australia. **collected:** August 13, 1985.
locality: Collected at Comet River, Rolleston, growing near bridge, Queensland. **latitude:** 24 deg. 28 min. S. **longitude:** 148 deg. 37 min. E. **elevation:** 200m.
Perennial. Wild. Seed.
- PI 547021 **origin:** Australia. **collected:** August 20, 1985.
locality: Collected at Alice Creek, 18.7km from Bunya Mountain National Park Office to Kingary. **latitude:** 26 deg. 45 min. S. **longitude:** 151 deg. 36 min. E. **elevation:** 566m. Perennial. Wild. Seed.
- PI 547022 **origin:** Australia. **collected:** August 15, 1985.
locality: Collected at Tipperary Creek, 106km west of Emerald, Queensland. **latitude:** 23 deg. 39 min. S. **longitude:** 147 deg. 11 min. E. **elevation:** 500m.
Perennial. Wild. Seed.

PI 546975 to 547034-continued

- PI 547023 **origin:** Australia. **collected:** August 09, 1985.
locality: Collected at Dogwood Creek, 1km west of Miles,
Queensland. **latitude:** 26 deg. 39 min. S. **longitude:** 150
deg. 11 min. E. **elevation:** 300m. Perennial. Wild.
Seed.
- PI 547024 **origin:** Australia. **collected:** August 10, 1985.
locality: Collected at Kinnowl Creek, 17km west of
Taroom, Queensland. **latitude:** 25 deg. 41 min. S.
longitude: 149 deg. 38 min. E. **elevation:** 200m.
Perennial. Wild. Seed.
- PI 547025 **origin:** Australia. **collected:** August 10, 1985.
locality: Collected at Dawson River, 73.6km west of
Taroom, Queensland. **latitude:** 25 deg. 41 min. S.
longitude: 149 deg. 13 min. E. **elevation:** 300m.
Perennial. Wild. Seed.
- PI 547026 **origin:** Australia. **collected:** August 10, 1985.
locality: Collected at Commissioner Creek, 102.5km W of
Taroom, Queensland. **latitude:** 25 deg. 50 min. S.
longitude: 149 deg. 02 min. E. **elevation:** 390m.
Perennial. Wild. Seed.
- PI 547027 **origin:** Australia. **collected:** August 10, 1985.
locality: Collected at Mjune Creek, 1km east of Mjune
River, Queensland. **latitude:** 25 deg. 51 min. S.
longitude: 148 deg. 34 min. E. **elevation:** 390m.
Perennial. Wild. Seed.
- PI 547028 **origin:** Australia. **collected:** August 11, 1985.
locality: Collected at Dawson River, second crossing
56.4km north of Mjune, Queensland. **latitude:** 25 deg. 23
min. S. **longitude:** 148 deg. 38 min. E. **elevation:** 450m.
Perennial. Wild. Seed.
- PI 547029 **origin:** Australia. **collected:** August 11, 1985.
locality: Collected at Bullaroo Creek, 72.6km north of
Mjune, Queensland. **latitude:** 25 deg. 14 min. S.
longitude: 148 deg. 37 min. E. **elevation:** 350m.
Perennial. Wild. Seed.
- PI 547030 **origin:** Australia. **collected:** August 11, 1985.
locality: Collected at Ingelara, 13.6km west of Wyesby,
Queensland. **latitude:** 24 deg. 59 min. S. **longitude:** 148
deg. 23 min. E. **elevation:** 300m. Perennial. Wild.
Seed.

PI 546975 to 547034-continued

- PI 547031 **origin:** Australia. **collected:** August 11, 1985.
locality: Collected at Carnarvon Creek, 27km west of Wyesby, Queensland. **latitude:** 25 deg. 01 min. S.
longitude: 148 deg. 18 min. E. **elevation:** 300m.
Perennial. Wild. Seed.
- PI 547032 **origin:** Australia. **collected:** August 11, 1985.
locality: Collected at Carnarvon Gorge, path to lookout at entrance, Queensland. **latitude:** 25 deg. 04 min. S.
longitude: 148 deg. 15 min. E. **elevation:** 400m.
Perennial. Wild. Seed.
- PI 547033 **origin:** Australia. **collected:** August 12, 1985.
locality: Collected at Hutton Creek, 14km northeast of Mjune, Queensland. **latitude:** 25 deg. 45 min. S.
longitude: 148 deg. 40 min. E. **elevation:** 380m.
Perennial. Wild. Seed.
- PI 547034 **origin:** Australia. **collected:** August 12, 1985.
locality: Collected at Baffle Creek, 32km north of Mjune, Queensland. **latitude:** 25 deg. 35 min. S. **longitude:** 148 deg. 42 min. E. **elevation:** 450m. Perennial. Wild. Seed.

PI 547035 to 547036. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by: Wilson, J.P., Agricultural Research Service -- USDA, Forage and Turf Unit, Tifton, Georgia, United States; and Georgia Agr. Exp. Sta.. **remarks:** Tift #3 and Tift #4 Rust Resistant Pearl Millet Germplasms. Received February 01, 1991.

- PI 547035 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Forage and Turf Unit, Tifton, Georgia 31793. **cultivar:** TIFT #3. **pedigree:** S6 selections from 19 Burkina Faso landraces (BF nos. 14, 17, 19, 34, 49, 63, 119, 122, 137, 156, 178, 201, 221, 246, 268, 296, 301, 326 and 329). **other id:** GP-26. **source:** Crop Sci. 31(6):1713 1991. **group:** CSR-MILLET, PEARL. **remarks:** Highly resistant to *Puccinia substriata* var. *indica*. Plants tall, photoperiod sensitive. Seed increase in the greenhouse during the winter is recommended. Spring Annual. Breeding Material. Seed.

PI 547035 to 547036-continued

PI 547036 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Forage and Turf Unit, Tifton, Georgia 31793. **cultivar:** TIFT #4. **pedigree:** S6 selections from 15 Burkina Faso landraces (BF nos. 19, 34, 45, 49, 53, 63, 122, 156, 201, 221, 320, 326, 329, 334 and 337). **other id:** GP-27. **source:** Crop Sci. 31(6):1713 1991. **group:** CSR-MILLET, PEARL. **remarks:** Moderately resistant to Puccinia substriata var. indica. Plants tall, photoperiod sensitive. Seed increase in the greenhouse during the winter is recommended. Spring Annual. Breeding Material. Seed.

PI 547037 to 547039. *Lens culinaris* Medikus FABACEAE Lentil

Donated by: Spaeth, S.C., Agricultural Research Service -- USDA, Pullman, Washington, United States; and Washington Agr. Exp. Sta..
remarks: No certificate requested. Received February 01, 1991.

PI 547037 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pullman, Washington 99164-6421. **cultivar:** WA8649090. **pedigree:** Pureline selection from bulk of 8 PI lines from Turkey (PI 370629 - 370636, consecutively). **other id:** GP-2. **source:** Crop Sci. 31(5):1395 1991. **group:** CSR-LENTIL. **remarks:** Plants 21cm tall. Flower late May. Slight tendency to lodge. Seeds small (3.1g/100 seeds), yellow cotyledons and blunt seed edge. Sufficient winter hardiness for use as fall-sown crop in eastern Washington and northern Idaho. Winter Annual. Breeding Material. Seed.

PI 547038 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pullman, Washington 99164-6421. **cultivar:** WA8649085. **pedigree:** Pureline selection from bulk of 8 PI lines from Turkey (PI 370629 - 370636, consecutively). **other id:** GP-3. **source:** Crop Sci. 31(5):1395 1991. **group:** CSR-LENTIL. **remarks:** Plants 25cm tall. Flower mid May. Tendency to lodge. Seeds large (7.5g/100 seeds), yellow cotyledons. Sufficient winter hardiness for use as fall-sown crop in eastern Washington and northern Idaho. Winter Annual. Breeding Material. Seed.

PI 547037 to 547039-continued

PI 547039 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pullman, Washington 99164-6421. **cultivar:** WA8649041. **pedigree:** Pureline selection from bulk of 8 PI lines from Turkey (PI 370629 - 370636, consecutively). **other id:** GP-4. **source:** Crop Sci. 31(5):1395 1991. **group:** CSR-LENTIL. **remarks:** Plants 34cm tall. Flower early June. Slight tendency to lodge. Seeds small (2.8 g/100 seeds), red cotyledons. Sufficient winter hardiness for use as fall-sown crop in eastern Washington and northern Idaho. Winter Annual. Breeding Material. Seed.

PI 547040. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Griffey, C.A., Virginia Agr. Exp. Sta., Blacksburg, Virginia, United States. **remarks:** Wakefield Wheat. Received February 01, 1991.

origin: United States. **origin institute:** Virginia Agr. Exp. Sta., Blacksburg, Virginia. **cultivar:** WAKEFIELD. **pedigree:** Selection from one of four populations: Arthur//CI 13836/8* Chancellor, VA 68-22-7//CI 13836/8*Chancellor, Doublecrop// Abe/VA 68-24-42/3//CI 13836/8*Chancellor, and Oasis/VA 68-24-42//CI 13836/8*Chancellor. **other id:** PVP 9100055. **source:** Pending. **group:** PVPO. **other id:** CV-768. **source:** Crop Sci. 31(6):1705 1991. **group:** CSR-WHEAT. **remarks:** Maturity mid- to late season. Height semidwarf. Coleoptiles partially colored light purple. Anthers yellow, some anthocyanin at base. Spikes fusiform to oblong, middense and awnleted. Glumes white to cream colored, long and midwide to wide with oblique shoulders, acute beaks. Kernels red, soft, midlong and ovate with narrow and middeep crease, rounded cheeks and midlong brush. Phenol reaction brown. Pml. Winter Annual. Cultivar. Seed.

PI 547041. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Griffey, C.A., Virginia Agr. Exp. Sta., Blacksburg, Virginia, United States. **remarks:** Madison Wheat. Received February 01, 1991.

origin: United States. **origin institute:** Virginia Agr. Exp. Sta., Blacksburg, Virginia 24061. **cultivar:** MADISON. **pedigree:** Abe//Blueboy/VA 71-54-147/3/VA 72-54-14. **other id:** PVP 9100056. **source:** Pending. **group:** PVPO. **other id:** CV-769. **source:** Crop Sci. 31(6):1705 1991. **group:** CSR-WHEAT. **remarks:** Maturity early. Semidwarf, soft red type. Coleoptiles white. Anthers yellow. Spikes fusiform, middense and awnleted. Glumes white to cream colored, long and midwide with oblique to rounded shoulders and acute beaks. Kernels red, soft, midlong and ovate with narrow and middeep crease, rounded cheeks and midlong brush. Phenol reaction brown. Moderately resistant to powdery mildew (*Erysiphe graminis*) in both. Winter Annual. Cultivar. Seed.

PI 547042. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Kelly, J.D., Michigan Agr. Exp. Sta., East Lansing, Michigan, United States. Received February 01, 1991.

origin: United States. **origin institute:** Michigan Agr. Exp. Sta., Michigan. **cultivar:** ISABELLA. **pedigree:** Redcloud/Mecosta. **other id:** MSU K77002. **other id:** CV-73. **source:** Crop Sci. 27(2):363 1987. **group:** CSR-OTHER LEGUMES. **remarks:** Type-I, upright, determinate plant habit, averaging 45cm tall. Lodging resistance excellent. Maturity early, 84-89 days. Unique combination of single dominant inhibitor I-gene form of resistance to all strains of bean common mosaic virus and the recessive bc-1 gene. Seed large, light red. Cultivar. Seed.

PI 547043 to 547067. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Metzger, R.J., Department of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received September 05, 1989.

PI 547043 **donor id:** 84TK521-001. **origin:** Turkey. **origin institute:** IZMIR, ICARDA/USDA/CIMMYT, Hakkari. **collected:** August 11, 1984. **collector id:** 84TK521-001. **other id:** W6 656. **group:** W6. **locality:** Collected near Gecitli, 16km west of Hakkari or 8km east of Gecitli, Hakkari Province. **latitude:** 37 deg. 40 min. N. **longitude:** 43 deg. 35 min. E. **elevation:** 1900m. **remarks:** Mountainous slope not irrigated or transplanted where small patches are farmed, of rocky stoniness and good drainage. Small quantity of material from an isolated plant with no apparent disease. Annual. Wild. Seed.

- PI 547044 **donor id:** 86TK1270-002. **origin:** Pakistan. **origin institute:** PARC/ICARDA, North-West Frontier. **collected:** July 21, 1984. **collector id:** 86TK1270-002. **other id:** W6 657. **group:** W6. **locality:** Collected near Mohammed Abad near Donar, 13.5km east from, Gilgit Hunza Road, Gilgit Province. **latitude:** 35 deg. 55 min. N. **longitude:** 74 deg. 20 min. E. **elevation:** 1380m. **remarks:** Hilly slope of low stoniness, brown sandy soil and moderate drainage, irrigated but not terraced or transplanted. Planting in August, harvest in July. Used as fodder. Annual. Primitiv-cv. Seed.
- PI 547045 **donor id:** 86TK1275-003. **origin:** Pakistan. **origin institute:** PARC/ICARDA, North-West Frontier. **collected:** July 22, 1986. **collector id:** 86TK1275-003. **other id:** W6 659. **group:** W6. **locality:** Collected near Hurmay, 10km from Nomal at Natar Road, Gilgit Province. **latitude:** 36 deg. 12 min. N. **longitude:** 74 deg. 10 min. E. **elevation:** 1820m. **remarks:** Terraced area of medium stoniness, sandy brown loam and good drainage. Annual crop planted in August and used as fodder. Annual. Cultivated. Seed.
- PI 547046 **donor id:** 86TK1276-004. **origin:** Pakistan. **origin institute:** PARC/ICARDA, North-West Frontier. **collected:** July 22, 1986. **collector id:** 86TK1276-004. **other id:** W6 660. **group:** W6. **locality:** Collected near Hurmay, 13km north of Nomal toward Naltar, west side of the Hunza River, Gilgit Province. **latitude:** 36 deg. 15 min. N. **longitude:** 74 deg. 10 min. E. **elevation:** 1850m. **remarks:** Hilly, irrigated farmland level, not transplanted, of brown soil, medium stoniness and moderate drainage. Plants collected from edge of wheat field, used as fodder. Annual. Primitiv-cv. Plant.
- PI 547047 **donor id:** 86TK1277-004. **origin:** Pakistan. **origin institute:** PARC/ICARDA, North-West Frontier. **collected:** July 22, 1986. **collector id:** 86TK1277-004. **other id:** W6 661. **group:** W6. **locality:** Collected near Nadlar Pine, Gilgit Province. **latitude:** 36 deg. 18 min. N. **longitude:** 74 deg. 08 min. E. **elevation:** 2040m. **remarks:** Terraced slope on irrigated farmland, not transplanted, of brown soil, medium stoniness and good drainage. Used as border of wheat field. Annual. Wild. Plant.

PI 547043 to 547067-continued

- PI 547048 donor id: 86TK1278-002. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. collected: July 22, 1986. collector id: 86TK1278-002. other id: W6 662. group: W6. locality: Collected near Naltar, 3km before Naltar Bala, Gilgit Province. latitude: 36 deg. 18 min. N. longitude: 74 deg. 08 min. E. elevation: 2120m. remarks: Terraced, irrigated but not transplanted site of low stoniness, brown soil and good drainage. Used as border of a barley field. Annual. Wild. Seed.
- PI 547049 donor id: 86TK1282-002. origin: Pakistan. origin institute: PARC/ICARDA, Jammu and Kashmir. collected: July 23, 1986. collector id: 86TK1282-002. other id: W6 664. group: W6. locality: Collected near Yelgon, 118km southeast of Gilgit, toward Skardu, Baltistan Province. latitude: 35 deg. 04 min. N. longitude: 74 deg. 05 min. E. elevation: 1600m. remarks: Mountainous slope of farmland of medium stoniness, brown loam and good drainage. Planting in August. Annual. Wild. Seed.
- PI 547050 donor id: 86TK1286-003. origin: Pakistan. origin institute: PARC/ICARDA, Jammu and Kashmir. collected: July 24, 1986. collector id: 86TK1286-003. other id: W6 667. group: W6. locality: Collected at airport, 16km northwest of Skardu, Baltistan Province. latitude: 35 deg. 20 min. N. longitude: 75 deg. 30 min. E. elevation: 2000m. remarks: Plants collected from farmland, as a weed in a wheat crop. Annual. Wild. Seed.
- PI 547051 donor id: 86TK1288-003. origin: Pakistan. origin institute: PARC/ICARDA, Jammu and Kashmir. collected: July 24, 1986. collector id: 86TK1288-003. other id: W6 668. group: W6. locality: Collected at Hussain Abad, 3km northeast from Skardu to Shigar, Baltistan Province. latitude: 35 deg. 17 min. N. longitude: 75 deg. 42 min. E. elevation: 2080m. remarks: 10 plants sampled from farmland. Annual. Wild. Plant.
- PI 547052 donor id: 86TK1293-001. origin: Pakistan. origin institute: PARC/ICARDA, Jammu and Kashmir. collected: July 25, 1986. collector id: 86TK1293-001. other id: W6 674. group: W6. locality: Collected at Changing, near Bala Kachura Lake, Baltistan Province. latitude: 35 deg. 20 min. N. longitude: 75 deg. 30 min. E. elevation: 2160m. remarks: 30 plants sampled. Soil sandy loam. Flowers cream colored. Rhizobium samples collected. Annual. Wild. Seed.

PI 547043 to 547067-continued

- PI 547053 donor id: 86TK1295-002. origin: Pakistan. origin institute: PARC/ICARDA, Jammu and Kashmir. collected: July 25, 1986. collector id: 86TK1295-002. other id: W6 675. group: W6. locality: Collected near Hajigam, 3km from Skardu toward Satpra, Baltistan Province. latitude: 35 deg. 15 min. N. longitude: 75 deg. 37 min. E. elevation: 2160m. remarks: 10 plants from irrigated farmland. Irrigated level site in hilly area of brown loam, medium stones and good drainage. Flowers mostly blue, a few white, cream and blue. Annual. Wild. Plant.
- PI 547054 donor id: 86TK1298-001. origin: Pakistan. origin institute: PARC/ICARDA, Jammu and Kashmir. collected: July 25, 1986. collector id: 86TK1298-001. other id: W6 678. group: W6. locality: Collected near Skardu, (EADA office), Baltistan Province. latitude: 35 deg. 12 min. N. longitude: 75 deg. 40 min. E. elevation: 2150m. remarks: 30 plants from water channel at Extension Agricultural Experiment Site. Level area in mountainous region of brown loam, low stoniness and good drainage. Flowers creamy white. Annual. Primitiv-cv. Seed.
- PI 547055 donor id: 86TK1298-004. origin: Pakistan. origin institute: PARC/ICARDA, Jammu and Kashmir. collected: July 25, 1986. collector id: 86TK1298-004. other id: W6 679. group: W6. locality: High plateau level, close to Indus River, may have been a flood plain, at Skardu EADA grounds, Baltistan Province. latitude: 35 deg. 12 min. N. longitude: 75 deg. 40 min. E. elevation: 2150m. remarks: 1 plant collected near stone wall along side of alfalfa field, irrigated, not terraced or transplanted, of brown soil, low stoniness and good drainage. Flowers cream colored. Plant vigor good, with some yellow leaves. Annual. Wild. Seed.
- PI 547056 donor id: 86TK1298-006. origin: Pakistan. origin institute: PARC/ICARDA, Jammu and Kashmir. collected: July 25, 1986. collector id: 86TK1298-006. other id: W6 681. group: W6. locality: High plateau level, close to Indus River, may have been a flood plain, at Skardu EADA grounds, Baltistan Province. latitude: 35 deg. 12 min. N. longitude: 75 deg. 40 min. E. elevation: 2150m. remarks: Several plants collected from irrigated, but not terraced or transplanted level field of brown soil, low stoniness and good drainage. Flowers creamy white. Some plants with many yellow leaves. Annual. Wild. Seed.

PI 547043 to 547067-continued

- PI 547057 donor id: 86TK1302-002. origin: Pakistan. origin institute: PARC/ICARDA, Jammu and Kashmir. collected: July 26, 1986. collector id: 86TK1302-002. other id: W6 682. group: W6. locality: 40km from Skardu toward Gilgit, Baltistan Province. latitude: 35 deg. 05 min. N. longitude: 75 deg. 02 min. E. elevation: 2010m. remarks: 15 plants collected from farmland. Annual. Wild. Seed.
- PI 547058 donor id: 86TK1309-001. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. collected: July 27, 1986. collector id: 86TK1309-001. other id: W6 683. group: W6. locality: Collected at Yal, 78km southeast from Gilgit toward Hunza Road, Gilgit Province. latitude: 36 deg. 15 min. N. longitude: 74 deg. 32 min. E. elevation: 1850m. remarks: Collected on level farmland in hilly area of brown loam, low stoniness and good drainage, Site irrigated but not transplanted. Planting in August, harvest in November. White flowered alfalfa observed, but it had no seed. Annual. Primitiv-cv. Seed.
- PI 547059 donor id: 86PK1310-002. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. cultivar: ASPIT. collected: July 27, 1986. collector id: 86PK1310-002. other id: W6 684. group: W6. locality: Collected at Murtiza Abad, 88km from Gilgit to Hunza, Gilgit Province. latitude: 36 deg. 17 min. N. longitude: 74 deg. 40 min. E. elevation: 1960m. remarks: Collected on hilly farmland in area of brown sand, low stoniness and moderate drainage, irrigated but not terraced or transplanted. Seed from apparently virus free green plants although many others had yellow leaves. Annual. Primitiv-cv. Seed.
- PI 547060 donor id: 86PK1310-002. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. local name: Riksha. collected: July 27, 1986. collector id: 86PK1312-002. other id: W6 685. group: W6. locality: Collected at Chambe Khun (Hyberald), near Karimabad, Gilgit Province. latitude: 36 deg. 17 min. N. longitude: 74 deg. 40 min. E. elevation: 2150m. remarks: Few seeds collected. Annual. Wild. Seed.
- PI 547061 donor id: 86PK1313-004. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. local name: Riksha. collected: July 28, 1986. collector id: 86PK1313-004. other id: W6 686. group: W6. locality: Collected at Ayeena Abad, 35km from Hunza Road to Khunjerab, Gilgit Province. latitude: 36 deg. 20 min. N. longitude: 74 deg. 50 min. E. elevation: 2140m. remarks: 10 plants collected. Annual. Wild. Seed.

- PI 547062 donor id: 86PK1315-006. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. collected: July 28, 1986. collector id: 86PK1315-006. other id: W6 687. group: W6. locality: Collected at Moorkhund, 60km north of Karimabad on Khunjerab Road, Gilgit Province. latitude: 36 deg. 42 min. N. longitude: 74 deg. 50 min. E. elevation: 2480m. remarks: Irrigated terraced level in mountainous area, not transplanted, of brown loam, low stoniness and good drainage. Plants collected in rock fence by wheat field. Most seed pods green. Few plants sampled. Small quantity of seed collected. Annual. Wild. Seed.
- PI 547063 donor id: 86PK1317-003. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. local name: Riksha. collected: July 30, 1986. collector id: 86PK1317-003. other id: W6 688. group: W6. locality: Collected at Nafora Baseem, north of Gilgit, Gilgit Province. latitude: 36 deg. 55 min. N. longitude: 74 deg. 13 min. E. elevation: 1520m. remarks: Irrigated hilly farmland level area of brown loam, low stoniness and good drainage. Several plants sampled. Small quantity of seed collected. Annual. Primitiv-cv. Seed.
- PI 547064 donor id: 86PK1321-004.00. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. local name: Riksha. collected: July 31, 1986. collector id: 86PK1321-004.00. other id: W6 689. group: W6. locality: Collected at Tawos Pine, 5km from Yasin to Thui Road, Gilgit Province. latitude: 36 deg. 22 min. N. longitude: 73 deg. 22 min. E. elevation: 2200m. remarks: 20gms seed collected at local market. Annual. Primitiv-cv. Seed.
- PI 547065 donor id: 86PK1324-004. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. cultivar: RIKSHA. collected: July 31, 1986. collector id: 86PK1324-004. other id: W6 691. group: W6. locality: Collected at Harf, 19km from Yasin toward Thui, Gilgit Province. latitude: 36 deg. 35 min. N. longitude: 73 deg. 10 min. E. elevation: 2400m. remarks: Hilly slope of irrigated, not transplanted, farmland of brown loam, rocky stoniness and moderate drainage. Few plants sampled from stone fence row. Very small quantity of seed collected. Annual. Primitiv-cv. Seed.

PI 547043 to 547067-continued

PI 547066 donor id: 86PK1325-006. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. collected: July 31, 1986. collector id: 86PK1325-006. other id: W6 692. group: W6. locality: Collected at Barkulti, 10km from Yasin toward Darkot, Gilgit Province. latitude: 36 deg. 27 min. N. longitude: 73 deg. 25 min. E. elevation: 2260m. remarks: Undulating, irrigated but not transplanted slope of medium stoniness, brown loam and moderate drainage. Sample collected in fodder-hay and mixed in with grasses. Annual. Wild. Seed.

PI 547067 donor id: 86PK1327-005. origin: Pakistan. origin institute: PARC/ICARDA, North-West Frontier. collected: August 01, 1986. collector id: 86PK1327-005. other id: W6 693. group: W6. locality: Collected at Sauharng, 16km from Yasin toward Gupis, Gilgit Province. latitude: 36 deg. 18 min. N. longitude: 73 deg. 22 min. E. elevation: 1970m. remarks: Hilly, irrigated but not transplanted farmland of brown loam, rocky stoniness and good drainage. Seed from farmer's seed production area (10m by 20m). Annual. Primitiv-cv. Seed.

PI 547068. *Vicia villosa* subsp. *varia* (Host) Corbiere FABACEAE Vetch

Donated by: Diekmann, J., ICARDA, P.O. Box 5466, Aleppo, Syria. Received January 23, 1991.

origin: Syria. remarks: Winter hardy. Seed.

PI 547069. *Capsicum annuum* L. SOLANACEAE Chili pepper

Donated by: Laowhakaseth, P., King Monkut Institute, 52 Paholyotin Road, Bangkok, Thailand. Received January 23, 1991.

origin: Thailand. cultivar: THAI HOT. Cultivated. Seed.

PI 547070. *Cyamopsis tetragonoloba* (L.) Taubert FABACEAE Guar

Donated by: Stafford, R.E., Cropping Systems Res. Lab., USDA-ARS, Route 3, Box 215, Lubbock, Texas, United States. Received January 23, 1991.

origin: United States. cultivar: MS-II. pedigree: Selection from breeding line TX76-3285. remarks: Mutant guar plant, designated as a male-sterile-II. Indeterminate growth habit. Partially sterile racemes. Spring Annual. Breeding Material. Seed.

PI 547071. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Pure-Seed Testing, Inc., Hubbard, Oregon, United States.
Received January 22, 1991.

origin: United States. **origin institute:** Pure-Seed Testing, Inc.. **cultivar:** TRAILBLAZER II. **other id:** PVP 9100046. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547072. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: O.M. Scott & Sons Company, United States. Received January 22, 1991.

origin: United States. **origin institute:** O.M. Scott & Sons Company. **cultivar:** AQUARA. **other id:** PVP 9100047. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547073. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: North Carolina Agr. Res. Service, North Carolina, United States. Received January 22, 1991.

origin: United States. **origin institute:** North Carolina Agr. Res. Service, North Carolina. **cultivar:** NC 8276. **other id:** PVP 9100048. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547074. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: North Carolina Agr. Res. Service, North Carolina, United States. Received January 22, 1991.

origin: United States. **origin institute:** North Carolina Agr. Res. Service, North Carolina. **cultivar:** NC 84173. **other id:** PVP 9100049. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547075. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: North Carolina Agr. Res. Service, North Carolina, United States. Received January 22, 1991.

origin: United States. **origin institute:** North Carolina Agr. Res. Service, North Carolina. **cultivar:** NC 1C. **other id:** PVP 9100050. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547076. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: North Carolina Agr. Res. Service, North Carolina, United States. Received January 22, 1991.

origin: United States. **origin institute:** North Carolina Agr. Res. Service, North Carolina. **cultivar:** NC 2C. **other id:** PVP 9100051. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547077. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: North Carolina Agr. Res. Service, North Carolina, United States. Received January 22, 1991.

origin: United States. **origin institute:** North Carolina Agr. Res. Service, North Carolina. **cultivar:** MOUNTAIN GOLD. **other id:** PVP 9100052. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547078. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Pure-Seed Testing, Inc., Hubbard, Oregon, United States. Received January 22, 1991.

origin: United States. **origin institute:** Pure-Seed Testing, Inc.. **cultivar:** LEGACY. **other id:** PVP 9100053. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547079. X *Triticosecale* sp. POACEAE Triticale

Donated by: Resource Seeds, Inc., United States. Received January 22, 1991.

origin: United States. **origin institute:** Resource Seeds, Inc.. **cultivar:** STAN II. **other id:** PVP 9100054. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547080. *Lotus corniculatus* L. FABACEAE Birdsfoot trefoil

Donated by: Alabama Agr. Exp. Sta., Alabama, United States. Received January 22, 1991.

origin: United States. **origin institute:** Alabama Agr. Exp. Sta., Alabama. **cultivar:** AU DEWEY. **other id:** PVP 9100057. **source:** Pending. **group:** PVPO. **other id:** CV-7. **source:** Crop Sci. 26(5):1081 1986. **group:** CSR-TREFOIL, BIRDSFO. Cultivated. Seed.

PI 547081. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Goertzen Seed Research, United States. Received January 22, 1991.

origin: United States. **origin institute:** Goertzen Seed Research. **cultivar:** ADVANTAGE. **other id:** PVP 9100059. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547082. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Goertzen Seed Research, United States. Received January 22, 1991.

origin: United States. **origin institute:** Goertzen Seed Research. **cultivar:** HAVEN. **other id:** PVP 9100060. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547083. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: International Seeds, Inc., United States. Received January 22, 1991.

origin: United States. **origin institute:** International Seeds, Inc.. **cultivar:** DERBY SUPREME. **other id:** PVP 9100064. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547084. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Jones, J.E., Louisiana Agr. Exp. Sta., Louisiana State Univ. Agric. Center, Baton Rouge, Louisiana, United States. **remarks:** LA 887 Cotton. Received January 22, 1991.

origin: United States. **origin institute:** Louisiana Agr. Exp. Sta., Louisiana State Univ. Agric. Center, Baton Rouge, Louisiana 70803. **cultivar:** LA 887. **pedigree:** LA 434-RKR/DES 11-9. **other id:** PVP 9100065. **source:** Pending. **group:** PVPO. **other id:** CV-97. **source:** Crop Sci. 31(6):1701 1991. **group:** CSR-COTTON. **remarks:** Premium fiber quality. Similar to Deltapine 41 in plant height, maturity, and lint percentage but has 22% heavier bolls and seed. Resistance to root-knot nematode/fusarium- wilt disease complex. High yield potential. Cultivar. Seed.

PI 547085. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Finelawn Research, Inc., United States. Received January 22, 1991.

PI 547085-continued

origin: United States. **origin institute:** Finelawn Research, Inc.. **cultivar:** 8855. **other id:** PVP 9100066. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547086. Zea mays L. subsp. mays POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received January 22, 1991.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc.. **cultivar:** LH128. **other id:** PVP 9100067. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547087. Zea mays L. subsp. mays POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received January 22, 1991.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc.. **cultivar:** LH181. **other id:** PVP 9100068. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547088. Zea mays L. subsp. mays POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received January 22, 1991.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc.. **cultivar:** LH208. **other id:** PVP 9100069. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547089. Zea mays L. subsp. mays POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received January 22, 1991.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc.. **cultivar:** LH212. **other id:** PVP 9100070. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547090. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received January 22, 1991.

origin: United States. origin institute: Holden's
Foundation Seeds, Inc.. cultivar: LH213. other id: PVP
9100071. source: Pending. group: PVPO. Cultivated.
Seed.

PI 547091. *Buchloe dactyloides* (Nutt.) Engelm. POACEAE Buffalograss

Donated by: Bamert Seed Company, United States. Received January
22, 1991.

origin: United States. origin institute: Bamert Seed
Company. cultivar: BAM 101. other id: PVP 9100072.
source: Pending. group: PVPO. Cultivated. Seed.

PI 547092. *Buchloe dactyloides* (Nutt.) Engelm. POACEAE Buffalo grass

Donated by: Bamert Seed Company, United States. Received January
22, 1991.

origin: United States. origin institute: Bamert Seed
Company. cultivar: BAM 301. other id: PVP 9100073.
source: Pending. group: PVPO. Cultivated. Seed.

PI 547093. *Pisum sativum* L. FABACEAE Garden pea

Donated by: Rogers Brothers Seed Co., United States. Received
January 22, 1991.

origin: United States. origin institute: Rogers Brothers
Seed Co.. cultivar: SOMERSET. other id: PVP 9100074.
source: Pending. group: PVPO. Cultivated. Seed.

PI 547094. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Dekalb Plant Genetics, United States. Received January
22, 1991.

origin: United States. origin institute: Dekalb Plant
Genetics. cultivar: CX 291. other id: PVP 9100075.
source: Pending. group: PVPO. Cultivated. Seed.

PI 547095. *Triticum durum* Desf. POACEAE Durum wheat

Donated by: Farmers Marketing Corp., United States. Received January 22, 1991.

origin: United States. **origin institute:** Farmers Marketing Corp.. **cultivar:** D5317. **other id:** PVP 9100076. **source:** Pending. **group:** PVPO. **received as:** *Triticum turgidum* var. durum. Cultivated. Seed.

PI 547096. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Farmers Marketing Corp., United States. Received January 22, 1991.

origin: United States. **origin institute:** Farmers Marketing Corp.. **cultivar:** BR5702. **other id:** PVP 9100077. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547097. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Farmers Marketing Corp., United States. Received January 22, 1991.

origin: United States. **origin institute:** Farmers Marketing Corp.. **cultivar:** BR5738. **other id:** PVP 9100078. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547098. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Pure-Seed Testing, Inc., Hubbard, Oregon, United States. Received January 22, 1991.

origin: United States. **origin institute:** Pure-Seed Testing, Inc.. **cultivar:** ARRIBA. **other id:** PVP 9100079. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547099. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Pure-Seed Testing, Inc., Hubbard, Oregon, United States. Received January 22, 1991.

origin: United States. **origin institute:** Pure-Seed Testing, Inc.. **cultivar:** PST-5MW. **other id:** PVP 9100080. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547100 to 547103. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: CIMMYT, Apdo. Postal 6-641, 06600, Mexico, D.F., Mexico.
Received February 11, 1991.

- PI 547100 **origin:** Mexico. **cultivar:** MEZCLA AMARILLA. **pedigree:** Mixture of Tuxpeno, Cuban flints, Antigua yellow ETO, Corn Belt/Tuxpeno crosses, plus germplasm from the Caribbean, South America, Surinam and India. **other id:** Population 26. **remarks:** Yellow, semi-flint adapted to lowland tropical environments. Maturity intermediate. Resistant to *Helminthosporium maydis*, *Puccinia polysora*, and ear rot (*Fusarium moniliforme*). Intermediate resistance to *Phyllacora maydis*/*Monographella maydis*. Average mid-silk 54 days. Plant and ear heights 201 and 94cm, respectively. Spring Annual. Breeding Material. Seed.
- PI 547101 **origin:** Mexico. **cultivar:** TUXPENO CARIBE. **pedigree:** Mixture of Tuxpeno, Cuban flints, and ETO. **other id:** Population 29. **remarks:** White, dent, adapted to lowland tropical environments. Maturity late. Resistant to *Helminthosporium maydis* and *Puccinia polysora*. Based on multi-location trials, average mid-silk 56 days, plant and ear heights 201 and 103cm, respectively and stalk and root lodging levels 5% and 20%, respectively. Spring Annual. Breeding Material. Seed.
- PI 547102 **origin:** Mexico. **cultivar:** BLANCO SUBTROPICAL. **pedigree:** Mixture of Cuban flints, ETO, Tuxpeno, Corn Belt dents and germplasm from India and Nepal. **other id:** Population 34. **remarks:** White, semi-flint adapted to mid-altitude tropical and subtropical environments. Maturity late. Resistant to *Exserohilum turcicum* and *Puccinia sorghi*. Based on multi-location trials, average plant and ear heights 192 and 89cm, respectively, and root and stalk lodging 9% and 4%, respectively. Spring Annual. Breeding Material. Seed.
- PI 547103 **origin:** Mexico. **cultivar:** AED TUXPENO. **pedigree:** American Early Dent (from Egypt)/Tuxpeno Crema I. **other id:** Population 44. **remarks:** White, dent, adapted to tropical and subtropical environments. Maturity late. Very resistant to *Exserohilum turcicum* and *Puccinia sorghi*. Based on multi-location trials, average mid-silk 62 days, plant and ear heights 220 and 112cm, respectively, 12% of ears had symptoms of various ear rot organisms, root and stalk lodging were 6% and 3%, respectively. Spring Annual. Breeding Material. Seed.

PI 547104. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Pure-Seed Testing, Inc., Hubbard, Oregon, United States.
Received February 11, 1991.

origin: United States. **origin institute:** Pure-Seed
Testing, Inc.. **cultivar:** ENVY. **other id:** PVP 9100081.
source: Pending. **group:** PVPO. Cultivated. Seed.

PI 547105. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Genecorp, Inc., United States. Received February 11,
1991.

origin: United States. **origin institute:** Genecorp, Inc..
cultivar: RED EYE COS. **other id:** PVP 9100082. **source:**
Pending. **group:** PVPO. Cultivated. Seed.

PI 547106. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE
Watermelon

Donated by: Coffey Seed Company, United States. Received February
11, 1991.

origin: United States. **origin institute:** Coffey Seed
Company. **cultivar:** TASTIGOLD. **other id:** PVP 9100083.
source: Pending. **group:** PVPO. Cultivated. Seed.

PI 547107. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Wilson Hybrids, Inc., United States. Received February
11, 1991.

origin: United States. **origin institute:** Wilson Hybrids,
Inc.. **cultivar:** Lp 215D. **other id:** PVP 9100084.
source: Pending. **group:** PVPO. Cultivated. Seed.

PI 547108. *Cynodon dactylon* (L.) Pers. POACEAE Bermudagrass

Donated by: Farmers Marketing Corp., United States. Received
February 11, 1991.

origin: United States. **origin institute:** Farmers
Marketing Corp.. **cultivar:** GIT-16. **other id:** PVP
9100085. **source:** Pending. **group:** PVPO. Cultivated.
Seed.

PI 547109. *Cynodon dactylon* (L.) Pers. POACEAE Bermudagrass

Donated by: Farmers Marketing Corp., United States. Received February 11, 1991.

origin: United States. **origin institute:** Farmers Marketing Corp.. **cultivar:** NM S-3. **other id:** PVP 9100086. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547110. *Lolium multiflorum* Lam. POACEAE Annual ryegrass

Donated by: Nelson, L.R., Texas Agr. Exp. Sta., Overton, Texas, United States. **remarks:** TAM 90 Annual Ryegrass. Received February 11, 1991.

origin: United States. **origin institute:** Texas Agr. Exp. Sta., Texas A&M University, Overton, Texas 75684. **cultivar:** TAM 90. **pedigree:** Bulk selection from polycross involving Gulf, Marshall, and TX-R-78-2. **other id:** PVP 9100087. **source:** Pending. **group:** PVPO. **other id:** CV-148. **group:** CSR-OTHER GRASSES. **remarks:** Developed for forage production. Adapted to East Texas and the Southeastern U.S. Improved winter hardiness compared to Gulf. Crown rust resistance (*Puccinia coronata*). Good stem rust resistance (*Puccinia graminus*). Forage yields above average in the south. Seed yields above average in Oregon. Winter Annual. Cultivar. Seed.

PI 547111. *Brassica napus* var. *oleifera* Del. BRASSICACEAE Rape

Donated by: Auld, D.L., Idaho Agr. Exp. Sta., University of Idaho, Moscow, Idaho, United States. **remarks:** Aspen Rapeseed. Received February 11, 1991.

origin: United States. **origin institute:** Idaho Agr. Exp. Sta., University of Idaho, Moscow, Idaho 83843-4196. **cultivar:** ASPEN. **pedigree:** Four F4 parental lines. Both WRE 4 and WRE 17 were selected from Sipal/Indore. WRE 14 was selected from Liraglu/Sipal/ Indore and WRE 21 was selected from WW 827/Indore. **other id:** PVP 9100088. **source:** Pending. **group:** PVPO. **other id:** CV-10. **group:** CSR-RAPESEED. **remarks:** Canola quality synthetic cultivar. Very low levels of glucosinolates and erucic acid. Best adapted to U.S. locations between 32-36 deg. latitude. Limited winter hardiness. Mature plant height 90-170cm. Shorter, flowers earlier, and demonstrates more determinate growth habit than most cultivars. Seeded in October, harvested in June. Winter Annual. Cultivar. Seed.

PI 547112. *Brassica napus* var. *oleifera* Del. BRASSICACEAE Rape

Donated by: Auld, D.L., Idaho Agr. Exp. Sta., University of Idaho, Moscow, Idaho, United States. **remarks:** Humus Rapeseed. Received February 11, 1991.

origin: United States. **origin institute:** Idaho Agr. Exp. Sta., University of Idaho, Moscow, Idaho 83843-4196. **cultivar:** HUMUS. **pedigree:** Four parental lines selected for very high levels of glucosinolates and for intermediate levels of erucic acid. WRGM 1 and WRGM 5 were selected from WW 827/Indore and WRGM 2 and WRGM 4 were selected from Norde/Indore. **other id:** PVP 9100089. **source:** Pending. **group:** PVPO. **other id:** CV-11. **group:** CSR-RAPESEED. **remarks:** Grown as winter cover crop to protect soil from erosion during winter rains and incorporated into the soil as a green manure crop at full bloom. In years when liquid fuel supplies are limited, the crop could be harvested as seed crop and the oil processed into a biologically renewable substitute for diesel fuel. The high glucosinolate meal remaining after oil extraction would be returned to the soil. Winter Annual. Cultivar. Seed.

PI 547113. *Brassica napus* var. *oleifera* Del. BRASSICACEAE Rape

Donated by: Auld, D.L., Idaho Agr. Exp. Sta., University of Idaho, Moscow, Idaho, United States. **remarks:** Lei III Rapeseed. Received February 11, 1991.

origin: United States. **origin institute:** Idaho Agr. Exp. Sta., University of Idaho, Moscow, Idaho 83843-4196. **cultivar:** LEI III. **pedigree:** Eleven parental lines selected from Syn3 generation of Bridger. **other id:** PVP 9100090. **source:** Pending. **group:** PVPO. **other id:** CV-12. **group:** CSR-RAPESEED. **remarks:** Industrial quality synthetic. Selections screened for very low levels of glucosinolates and for high levels of erucic acid. The very low levels of glucosinolate may be useful to oilseed processors who market the meal as high protein animal feed supplement. Mature plant height 90-170cm. Shorter, flowers earlier, and demonstrates a more determinate growth habit than other industrial cultivars. Winter Annual. Cultivar. Seed.

PI 547114. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Pure-Seed Testing, Inc., Hubbard, Oregon, United States. Received February 11, 1991.

PI 547114-continued

origin: United States. **origin institute:** Pure-Seed Testing, Inc.. **cultivar:** THUNDERBIRD. **other id:** PVP 9100091. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 547115 to 547119. *Elymus lanceolatus* (Scribner & J. G. Smith) Gould
subsp. *lanceolatus* POACEAE

Donated by: Jones, T.A., USDA-ARS, Forage and Range, Utah State University, Logan, Utah, United States. Received January 15, 1991.

PI 547115 **origin:** United States. **other id:** W6 4089. **group:** W6. **other id:** ACC: 358. **locality:** 9mm E of Farson. Perennial. Wild. Seed.

PI 547116 **origin:** United States. **other id:** W6 4090. **group:** W6. **other id:** ACC: 383. **locality:** 3m NE of Wells. Perennial. Wild. Seed.

PI 547117 **origin:** United States. **other id:** W6 4091. **group:** W6. **other id:** ACC: 529. **locality:** Kemmerer. Perennial. Wild. Seed.

PI 547118 **origin:** United States. **other id:** W6 4092. **group:** W6. **other id:** ACC: 693. **locality:** 15m W of Arco. Perennial. Wild. Seed.

PI 547119 **origin:** United States. **other id:** W6 4093. **group:** W6. **other id:** ACC: 694. **locality:** 3m NW of Thermopolis. Perennial. Wild. Seed.

PI 547120 to 547121. *Leymus hybrid* POACEAE

Donated by: Jones, T.A., USDA-ARS, Forage and Range, Utah State University, Logan, Utah, United States. Received January 15, 1991.

PI 547120 **origin:** United States. **pedigree:** *Leymus triticoides*/
Leymus cinereus. **other id:** W6 4094. **group:** W6. **other id:** ACC: 638. **locality:** Crescent Valley. Perennial. Wild. Seed.

PI 547121 **origin:** United States. **pedigree:** *Leymus triticoides*/
Leymus cinereus. **other id:** W6 4095. **group:** W6. **other id:** T-56. **locality:** Secret Pass. Perennial. Wild. Seed.

PI 547122 to 547150. *Oryzopsis hymenoides* (Roem. & Schult.) Ricker
POACEAE Indian ricegrass

Donated by: Jones, T.A., USDA-ARS, Forage and Range, Utah State
University, Logan, Utah, United States. Received January 15, 1991.

PI 547122 **origin:** United States. **other id:** W6 4096. **group:** W6.
other id: ACC: 90. **locality:** Lincoln Flat. Perennial.
Wild. Seed.

PI 547123 **origin:** United States. **other id:** W6 4097. **group:** W6.
other id: T-43. **locality:** 39m NNW of Eureka. Perennial.
Wild. Seed.

PI 547124 **origin:** United States. **other id:** W6 4098. **group:** W6.
other id: T-435. **locality:** 1 m E of Wells. Perennial.
Wild. Seed.

PI 547125 **origin:** United States. **other id:** W6 4099. **group:** W6.
other id: T-437. **locality:** 6m SW of Montello.
Perennial. Wild. Seed.

PI 547126 **origin:** United States. **other id:** W6 4100. **group:** W6.
other id: T-439. **locality:** 8m NE of Montello.
Perennial. Wild. Seed.

PI 547127 **origin:** United States. **other id:** W6 4101. **group:** W6.
other id: T-440. **locality:** 2m E of Rabbit Springs.
Perennial. Wild. Seed.

PI 547128 **origin:** United States. **other id:** W6 4102. **group:** W6.
other id: T-442. **locality:** 5m NW of Winnemucca.
Perennial. Wild. Seed.

PI 547129 **origin:** United States. **other id:** W6 4103. **group:** W6.
other id: T-443. **locality:** N. Winnemucca. Perennial.
Wild. Seed.

PI 547130 **origin:** United States. **other id:** W6 4104. **group:** W6.
other id: T-444. **locality:** 3m E of Heber. Perennial.
Wild. Seed.

PI 547131 **origin:** United States. **other id:** W6 4105. **group:** W6.
other id: T-445. **locality:** 15m W of Duchesne.
Perennial. Wild. Seed.

PI 547132 **origin:** United States. **other id:** W6 4106. **group:** W6.
other id: T-446. **locality:** 13m W of Duchesne.
Perennial. Wild. Seed.

PI 547133 **origin:** United States. **other id:** W6 4107. **group:** W6.
other id: T-448. **locality:** 5m E of Duchesne. Perennial.
Wild. Seed.

PI 547122 to 547150-continued

- PI 547134 origin: United States. other id: W6 4108. group: W6.
other id: T-449. locality: 4m W of Dinosaur. Perennial.
Wild. Seed.
- PI 547135 origin: United States. other id: W6 4109. group: W6.
other id: T-450. locality: 2m N of Dinosaur Nat.
Monument info center. Perennial. Wild. Seed.
- PI 547136 origin: United States. other id: W6 4110. group: W6.
other id: T-451. locality: 6m N of Dinosaur Nat.
Monument info center. Perennial. Wild. Seed.
- PI 547137 origin: United States. other id: W6 4111. group: W6.
other id: T-452. locality: 23m E of Rangley. Perennial.
Wild. Seed.
- PI 547138 origin: United States. other id: W6 4112. group: W6.
other id: T-453. locality: 15m W of Meeker. Perennial.
Wild. Seed.
- PI 547139 origin: United States. other id: W6 4113. group: W6.
other id: T-454. locality: 3m W of Meeker. Perennial.
Wild. Seed.
- PI 547140 origin: United States. other id: W6 4114. group: W6.
other id: T-457. locality: 24m SW of Walden. Perennial.
Wild. Seed.
- PI 547141 origin: United States. other id: W6 4115. group: W6.
other id: T-460. locality: 7m N of Boulder. Perennial.
Wild. Seed.
- PI 547142 origin: United States. other id: W6 4116. group: W6.
other id: T-469. locality: 4m N of Penrose. Perennial.
Wild. Seed.
- PI 547143 origin: United States. other id: W6 4117. group: W6.
other id: T-470. locality: 7m W of Canon City.
Perennial. Wild. Seed.
- PI 547144 origin: United States. other id: W6 4118. group: W6.
other id: T-471. locality: 9m W of Gunnison. Perennial.
Wild. Seed.
- PI 547145 origin: United States. other id: W6 4119. group: W6.
other id: T-473. locality: 20m S of Moab. Perennial.
Wild. Seed.
- PI 547146 origin: United States. other id: W6 4120. group: W6.
other id: T-474. locality: 7m S of Moab. Perennial.
Wild. Seed.

PI 547122 to 547150-continued

- PI 547147 **origin:** United States. **other id:** W6 4121. **group:** W6.
other id: T-476. **locality:** 6.3m E of Green River.
Perennial. Wild. Seed.
- PI 547148 **origin:** United States. **other id:** W6 4122. **group:** W6.
other id: T-479. **locality:** 6m N of Winnemucca.
Perennial. Wild. Seed.
- PI 547149 **origin:** United States. **other id:** W6 4123. **group:** W6.
other id: T-57. **locality:** 2m NW of Pleasant Valley.
Perennial. Wild. Seed.
- PI 547150 **origin:** United States. **other id:** W6 4124. **group:** W6.
other id: T-60. **locality:** 3m SE of Mountain Home.
Perennial. Wild. Seed.

PI 547151 to 547162. *Elytrigia spicata* (Pursh) D. R. Dewey POACEAE

Donated by: Jones, T.A., USDA-ARS, Forage and Range, Utah State University, Logan, Utah, United States. Received January 15, 1991.

- PI 547151 **origin:** United States. **other id:** W6 4125. **group:** W6.
other id: ACC:657. **locality:** 10m N of Brogan. **received as:** *Pseudoroegneria inermis* subsp. *inermis*. Perennial.
Wild. Seed.
- PI 547152 **origin:** United States. **other id:** W6 4126. **group:** W6.
other id: ACC:206. **locality:** 10m N of New Meadows. **received as:** *Pseudoroegneria spicata* subsp. *spicata*.
Perennial. Wild. Seed.
- PI 547153 **origin:** United States. **other id:** W6 4127. **group:** W6.
other id: ACC:656. **locality:** Arco. **received as:** *Pseudoroegneria spicata* subsp. *spicata*. Perennial.
Wild. Seed.
- PI 547154 **origin:** United States. **other id:** W6 4128. **group:** W6.
other id: T-668. **locality:** 2.5m S of Cambridge. **received as:** *Pseudoroegneria spicata* subsp. *spicata*.
Perennial. Wild. Seed.
- PI 547155 **origin:** United States. **other id:** W6 4129. **group:** W6.
other id: T-669. **locality:** 12.5m NW of Cambridge. **received as:** *Pseudoroegneria spicata* subsp. *spicata*.
Perennial. Wild. Seed.
- PI 547156 **origin:** United States. **other id:** W6 4130. **group:** W6.
other id: T-670. **locality:** 2.5M S Brownlee Dam. **received as:** *Pseudoroegneria spicata* subsp. *spicata*.
Perennial. Wild. Seed.

PI 547151 to 547162-continued

- PI 547157 **origin:** United States. **other id:** W6 4131. **group:** W6.
other id: T-671. **locality:** Oxbow Dam. **received as:**
Pseudoroegneria spicata subsp. spicata. Perennial.
Wild. Seed.
- PI 547158 **origin:** United States. **other id:** W6 4132. **group:** W6.
other id: T-672. **locality:** Big Bar, Hells Canyon.
received as: Pseudoroegneria spicata subsp. spicata.
Perennial. Wild. Seed.
- PI 547159 **origin:** United States. **other id:** W6 4133. **group:** W6.
other id: T-673. **locality:** Hells Canyon Dam. **received**
as: Pseudoroegneria spicata subsp. spicata. Perennial.
Wild. Seed.
- PI 547160 **origin:** United States. **other id:** W6 4134. **group:** W6.
other id: T-674. **locality:** 2m S of Richland. **received**
as: Pseudoroegneria spicata subsp. spicata. Perennial.
Wild. Seed.
- PI 547161 **origin:** United States. **other id:** W6 4136. **group:** W6.
other id: T-675. **locality:** 14m S of Richland. **received**
as: Pseudoroegneria spicata subsp. spicata. Perennial.
Wild. Seed.
- PI 547162 **origin:** United States. **other id:** W6 4137. **group:** W6.
other id: T-676. **locality:** 7m N of Huntington. **received**
as: Pseudoroegneria spicata subsp. spicata. Perennial.
Wild. Seed.

PI 547163. *Hordeum vulgare* L. POACEAE Barley

Donated by: Helm, J.H., Alberta Agriculture Crop Research, Lacombe,
Alberta, Canada. **remarks:** Condor Barley. Received January 30,
1991.

origin: Canada. **origin institute:** Alberta Agriculture
Crop Research, Lacombe, Alberta TOC 1SO. **cultivar:**
CONDOR. **pedigree:** A.S.A./TR 410 (Centennial/Fergus).
other id: H75197013*N. **other id:** TR 607. **other id:**
CV-227. **source:** Crop Sci. 32(1):278 1992. **group:**
CSR-BARLEY. **remarks:** Two-rowed hulless variety adapted
to the Western Prairies. Yield 11-15% higher, maturity
1-2 days earlier, test weight 2-3kg per hectoliter higher
and thrashes easier and cleaner than Scout. Shorter,
stronger straw than check varieties. Feed value superior.
Protein and energy content high. Moderately susceptible
to common root rot, surface borne smuts and loose smut.
Moderately resistant to. Spring Annual. Cultivar.
Seed.

PI 547164. X Triticosecale sp. POACEAE Triticale

Donated by: Salmon, D.F., Alberta Agriculture, Field Crops Branch, Lacombe, Alberta, Canada. **remarks:** Pika Winter Triticale. Received January 30, 1991.

origin: Canada. **origin institute:** Alberta Agriculture, Field Crops Branch, Bag Service #47, Lacombe, Alberta
TOC 1SO. cultivar: PIKA. **pedigree:** Derived from 77 winter Triticale lines. **other id:** 81DE01015. **other id:** CV-12. **group:** CSR-TRITICALE. **remarks:** Hexaploid (2n=6x=42), complete winter variety similar in height (108cm) and days to maturity (217) to Wintri. Improved winter survival (84 vs 79%), yield potential (4.15 vs 4.08t ha⁻¹), seed protein (115 vs 101g kg⁻¹) and falling number (200 vs 60) compared to Wintri. Juvenile plant growth habit prostrate. Flag leaf length med., width med.- narrow, dark green, pronounced waxy bloom. Culm neck slightly kinked. Winter Annual. Cultivar. Seed.

PI 547165 to 547168. Helianthus annuus L. ASTERACEAE Sunflower

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota, United States. Received February 12, 1991.

PI 547165 **donor id:** ANN-2034. **origin:** United States. **collected:** September 16, 1989. **collector id:** ANN-2034. **other id:** Ames 12993. **source:** NC-7. **group:** Ames. **locality:** Disturbed waste area, roadside ditch by concrete dump pile 12km south of Rutland, Hwy 51S, Woodfork County. **latitude:** 40 deg. 52 min. N. **longitude:** 89 deg. 02 min. W. **remarks:** Seed collected from 75 plants, collected from two parts of the population, large scattered population. Typical annuus except for some larger central heads on some of the tall main stem. Typical leaves, etc. probably had some cultivated in it. Sunflower was raised in area 40 years ago according to locals. Some insect leaf damage, no insect observed. Specimen collected. Collection #2034. Seed.

PI 547166 **origin:** United States. **collected:** September 16, 1989. **collector id:** ANN-2038. **other id:** Ames 12994. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, intersection of I-57 and Hwy. 24E just west of Gilman, Iroquois County. **latitude:** 40 deg. 45 min. N. **longitude:** 88 deg. 02 min. W. **remarks:** Seed collected from 75 plants, localized population, plants scattered. Good seed set, just past peak flowering. Typical H. annuus, some tall plants. Some leaf damage, leaf feeders. Some rust on all plants, some lower leaves dead from rust. Some head damage, larvae in heads. Specimen collected. Collection #2038. Seed.

PI 547165 to 547168-continued

PI 547167 **origin:** United States. **collected:** September 24, 1989. **collector id:** ANN-2086. **other id:** Ames 12995. **source:** NC-7. **group:** Ames. **locality:** Road-side ditch along fence-row. Scattered population over several km. Intersection of Hwy. 36W and Hwy. 4N, Springfield, Sangamon county. **latitude:** 39 deg. 49 min. N. **longitude:** 89 deg. 39 min. W. **remarks:** Seed collected from 75 plants. Past peak flowering, seed set very good. Variable plant height. Typical annuus, many single or slightly branched plants. Growing in tall grass, scattered, *H. maximiliani* and *grosseseratus* growing in same general area. Some rust present on a few plants, most lower leaves had died. Specimen collected. Collection #2086. Seed.

PI 547168 **origin:** United States. **collected:** September 24, 1989. **collector id:** ANN-2093. **other id:** Ames 12996. **source:** NC-7. **group:** Ames. **locality:** 7.4km west of Camp Point, Hwy. 24W, along right-of-way of railroad, area had been recently sprayed, Adams County. **latitude:** 40 deg. 03 min. N. **longitude:** 91 deg. 09 min. W. **remarks:** Seed collected from 40 plants, small scattered population. Plants past flowering, good seed set. Most plants shorter, normal heads typical. No insect or disease damage. Specimen collected. Collection #2093. Seed.

PI 547169 to 547170. *Helianthus decapetalus* L. ASTERACEAE

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota, United States. Received February 12, 1991.

PI 547169 **origin:** United States. **collected:** September 20, 1989. **collector id:** DEC-2053. **other id:** Ames 12997. **source:** NC-7. **group:** Ames. **locality:** 0.2km east of Salineville, Hwy. 164S, roadside ditch, steep bank, edge of woods, chert slate slope, Columbiana County. **latitude:** 40 deg. 38 min. N. **longitude:** 80 deg. 39 min. W. **remarks:** Seed collected from 25 plants, small isolated population, about 40 plants. Past peak flower, seed set probably good, 5-10 seeds per head. Plant had typical *decapetalus* bracts, long and spreading. Leaves were somewhat larger and thicker than usual, but were in the sun. Leaf characteristics otherwise typical. Specimen collected. Collection #2053. Seed.

PI 547169 to 547170-continued

PI 547170 **origin:** United States. **collected:** September 20, 1989. **collector id:** DEC-2054. **other id:** Ames 12998. **source:** NC-7. **group:** Ames. **locality:** Growing mostly in shade, population scattered for 90m of roadside along edge of dense mixed woods. Slate (chert) slope, 8.6km east of Kilgore, Hwy. 164N, Jefferson County. **latitude:** 40 deg. 30 min. N. **longitude:** 80 deg. 55 min. W. **remarks:** Seed collected from 30 plants. Plants past flowering, seed set 5-10 seeds per head. Plants typical of decapetalus which grows in woods, thin serrate leaves, and quite large. Some stems and leaves purple (anthocyanan). Had typical spreading bracts. Some rust present on few plants. Specimen collected. Collection #2054. Seed.

PI 547171 to 547174. *Helianthus divaricatus* L. ASTERACEAE

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota, United States. Received February 12, 1991.

PI 547171 **origin:** United States. **collected:** September 20, 1989. **collector id:** DIV-2056. **other id:** Ames 12999. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, recently cut-over wooded area, population growing among tree stumps, 1.1 km northwest of Antrim, Hwy. 22W, Guernsey County. **latitude:** 40 deg. 04 min. N. **longitude:** 81 deg. 23 min. W. **remarks:** Seed collected from 75 plants, population scattered along edge of permanent woods in recently cut over area. Seed set very good, past flowering. Plants typical of *divaricatus* sessile leaves (mostly dark green), rolled at edge. Spreading bracts. Some rust present on many plants. Rust spores collected. Specimen collected. Collection #2056. Seed.

PI 547172 **origin:** United States. **collected:** September 22, 1989. **collector id:** DIV-2078. **other id:** Ames 13000. **source:** NC-7. **group:** Ames. **locality:** Along drier area of railroad tracks up slope from swampy area, east edge of Lewis, Hwy. 246E, Vigo County. **latitude:** 39 deg. 15 min. N. **longitude:** 87 deg. 15 min. W. **remarks:** Seed collected from 75 plants, small isolated population. Plants much past flowering, seed set hard to tell many dead already and lost seeds. Plants typical *divaricatus*, sessile leaves. Most plants single headed, few branches above. Specimen collected. Rhizomes collected. Collection #2078. Seed.

PI 547171 to 547174-continued

PI 547173 **origin:** United States. **collected:** September 23, 1989. **collector id:** DIV-2082. **other id:** Ames 13001. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, open area of woods, along edge of woods, clay soil, 14.8km south of Trimble, Hwy. 1S, Crawford County. **latitude:** 38 deg. 55 min. N. **longitude:** 87 deg. 42 min. W. **remarks:** Seed collected from 150 plants, small isolated population, only population seen in the immediate area. Plants much past flowering, seed set variable. Most plants had dry heads. Most plants were single headed, few were branched (three above). Very typical *divaricatus*, sessile leaves, opposite, *H. grosseserratus* intermixed in population. Both species appear to be clear species with no introgression. Seed.

PI 547174 **origin:** United States. **collected:** September 23, 1989. **collector id:** DIV-2085. **other id:** Ames 13002. **source:** NC-7. **group:** Ames. **locality:** Population dense along edge of woods and for several meters into woods. Along roadside ditch, on both sides of road. 0.5km east of Beecher City, Hwy. 33W, Effingham County. **latitude:** 39 deg. 11 min. N. **longitude:** 88 deg. 48 min. W. **remarks:** Seed collected from 200 plants. Good seed set, much past flowering, much seed shattered. Typical *divaricatus*, some plants very tall, large leaves, some plants branched above. Several heads per plant. Rust present on some plants. Specimen collected. Collection #2085. Seed.

PI 547175 to 547184. *Helianthus giganteus* L. ASTERACEAE

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota, United States. Received February 12, 1991.

PI 547175 **origin:** United States. **collected:** September 13, 1989. **collector id:** GIG-2013. **other id:** Ames 13003. **source:** NC-7. **group:** Ames. **locality:** Population scattered over 120 m, along roadside ditch, on edge of birch woods, near low swampy area. 9.6km southwest of Minong, Hwy. 77E and County Road K (North), Washburn County. **latitude:** 46 deg. 02 min. N. **longitude:** 91 deg. 55 min. W. **remarks:** Seed collected from 15 plants. Plants much shorter than typical *H. giganteus*, but were in sandy soil. Plants just flowering, flowering in leaf axils with purple stems. Seed set may be early. No disease present. Small scattered population. Specimen collected. Collection #2013. Seed.

PI 547175 to 547184-continued

- PI 547176 **origin:** United States. **collected:** September 13, 1989. **collector id:** GIG-2014. **other id:** Ames 13004. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, clay loam soil, moist, near mixed wooded area, 0.6km north of Seeley, Hwy. 63N, Sawyer County. **latitude:** 46 deg. 08 min. N. **longitude:** 91 deg. 21 min. W. **remarks:** Seeds collected from 3 plants, a small population. Plants tall, more typical *H. giganteus*. Plants have purple stems, branched above, flowering or just flowering. No diseases present or apparent insect damage. Population mixed with *H. maximiliani*. No seed collected from *H. maximiliani* because they were just flowering. Collection #2014. Seed.
- PI 547177 **origin:** United States. **collected:** September 01, 1989. **collector id:** GIG-2015. **other id:** Ames 13005. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch along edge of mixed woods, sandy-loam soil, somewhat swampy, 4.8km west of Odanah, Hwy. 2E, Ashland County. **latitude:** 46 deg. 37 min. N. **longitude:** 90 deg. 46 min. W. **remarks:** Seeds collected from 40 plants, population probably had 100 plants. Plants typical of *H. giganteus* About 1 1/2 meters tall, branched above, just past flowering Anthocyan in some leaves, and most stems. No disease present or insect damage. Plants had typical rhizomes, enlarged with smaller tubers. Rhizomes collected for nursery, specimens collected. Collection #2015. Seed.
- PI 547178 **origin:** United States. **collected:** September 14, 1989. **collector id:** GIG-2016. **other id:** Ames 13006. **source:** NC-7. **group:** Ames. **locality:** Population scattered over 90m area, near edge of pine woods, along isolated, restricted roadside, in sandy soil, 22.4km north of Keshena, Hwy. 55N, Menominee County. **latitude:** 45 deg. 15 min. N. **longitude:** 88 deg. 36 min. W. **remarks:** Seeds collected from 35 plants. Plants typical for *H. giganteus*, about 2 m tall. Lighter yellow ray petals, some plants had all purple (anthocyan) color leaves, most stems were purple, and bracts on heads low cealate cilitate and spreading. Typical enlarged rhizomes with smaller tubers. Specimen collected. Collection # 2016. Seed.

PI 547175 to 547184-continued

PI 547179 **origin:** United States. **collected:** September 14, 1989. **collector id:** GIG-2017. **other id:** Ames 13007. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, low swampy type area, loam soils, edge of pasture, 5.1 km north of Auroraville, Hwy. 49N, Waushara County. **latitude:** 44 deg. 04 min. N. **longitude:** 88 deg. 59 min. W. **remarks:** Seeds collected from ca. 100 plants, large scattered pop'n. Plants typical ht., ca. 2 m. Just past flowering, seed set looks good. Leaves somewhat toothed, purple stems. Rhizome with expanded tubers. Some insect damage to heads. Stem collected for insect emergence. Specimen collected. Collection #2017. Seed.

PI 547180 **origin:** United States. **collected:** September 14, 1989. **collector id:** GIG-2018. **other id:** Ames 13008. **source:** NC-7. **group:** Ames. **locality:** Population extending for 450m in roadside ditch, along edge of cultivated field. Moist bank, loam soil. 3.5km southwest of Pickett, Fond de Lac County. **latitude:** 43 deg. 50 min. N. **longitude:** 88 deg. 56 min. W. **remarks:** Seeds collected from over 100 plants, very large dense population. Plants typical, ca. 2 m. Just flowering, leaves larger somewhat toothed, some leaves and stems purple. Typical enlarged Rhizome. Plants had pretty severe attack of rust. One plant (pressed) had "mum" type heads. Some *H. strumosus* mixed in part of population, no evidence of crossing. Collection #2018. Seed.

PI 547181 **origin:** United States. **collected:** September 15, 1989. **collector id:** GIG-2020. **other id:** Ames 13009. **source:** NC-7. **group:** Ames. **locality:** Very large population in roadside ditch, scattered over 160 m, in loam soil. Just south of intersection of Hwy. 26E and Hwy. 41S. 4.8km south of Oshkosh, Winnebago County. **latitude:** 43 deg. 57 min. N. **longitude:** 88 deg. 34 min. W. **remarks:** Seeds collected from ca. 150 plants. Plants typical, some over 2 m tall. Just past flowering, good seed set. Plants had expanded rhizomes, typical branching, some purple stems. Specimens collected. Collection #2020. Seed.

PI 547175 to 547184-continued

- PI 547182 **origin:** United States. **collected:** September 15, 1989. **collector id:** GIG-2021. **other id:** Ames 13010. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, on the edge of hay pasture. In moist swampy clay soil. On Hwy. 26S, 6.6km south of Rosendale, Fond du Lac County. **latitude:** 43 deg. 44 min. N. **longitude:** 88 deg. 49 min. W. **remarks:** Seeds collected from 75 plants, large population, scattered plants. Collection #2021. Plants typical of species. Probably good seed set, plants just past flowering. Stem damage, insect galls on plants (wasp?) eggs inside, also evidence of stem borer damage. Many diseases present, very bad rust, some plants dried up probably due to rust Powdery mildew present, also Alternaria leaf spot. Seed.
- PI 547183 **origin:** United States. **collected:** September 15, 1989. **collector id:** GIG-2023. **other id:** Ames 13011. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, on edge of waste area. 10.4km west of Fox Lake, Columbia County. **latitude:** 43 deg. 32 min. N. **longitude:** 89 deg. 02 min. W. **remarks:** Seeds collected from 50 plants, small scattered population Plants generally typical, some plants looked like they had *H. grosseserratus* characteristics mixed in. Probably good seed set. Some leaves had some rust spots, not severe. Insect damage to heads, some stems had insect galls(wasp) Plant specimen collected. Collection #2023. Seed.
- PI 547184 **origin:** United States. **collected:** September 16, 1989. **collector id:** GIG-2029. **other id:** Ames 13012. **source:** NC-7. **group:** Ames. **locality:** Population scattered over 100m in roadside ditch, on edge of small flowing stream in clay soil. On Hwy. 251S, 7.7km south of New Milford, Ogle County. **latitude:** 42 deg. 10 min. W. **longitude:** 89 deg. 06 min. W. **remarks:** Seeds collected from 60 plants, Typical *H. giganteus*, had some very large plants, >2 m. and larger stem diameter. Just past flowering, good seed set. Insect gall on some stems. No diseases present. Specimen collected. Collection #2029. Seed.

PI 547185 to 547202. *Helianthus grosseserratus* Martens ASTERACEAE

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota, United States. Received February 12, 1991.

PI 547185 to 547202-continued

PI 547185 **origin:** United States. **collected:** September 13, 1989. **collector id:** GRO-2022. **other id:** Ames 13013. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, along waste area by corn field. Swampy area, in clay soil. Along Hwy. 68S, 11.2km southwest of Waupun, Dodge County. **latitude:** 43 deg. 35 min. W. **longitude:** 88 deg. 56 min. N. **remarks:** Seeds collected from 100 plants, large dense population. Typical plants. Just past flowering, larger stem diameter. Dense leaf clusters. Good seed set. Population had very severe rust, few plants appeared free of rust. Root- stocks collected. Specimen collected. Collection #2022. Seed.

PI 547186 **origin:** United States. **collected:** September 15, 1989. **collector id:** GRO-2025. **other id:** Ames 13014. **source:** NC-7. **group:** Ames. **locality:** Large, dense population in sqampy area, near roadside, extending about 0.4km. Near Hwy. 18E, 11.2km east and 1.6km south of Mt. Horeb, Dane County. **latitude:** 42 deg. 57 min. W. **longitude:** 89 deg. 47 min. W. **remarks:** Seeds collected from 150 plants, just past flowering. Typical plants, purple stems, serrate leaves, compact arrangement of leaves. Larger diameter of stems. Some insect head damage, and also stem damage. Some leaf damage (spray). No rust present. Bidens and typha present near stream of water, not flowing. Specimen collected. Collection #2025. Seed.

PI 547187 **origin:** United States. **collected:** September 15, 1989. **collector id:** GRO-2026. **other id:** Ames 13015. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch swampy area, near culvert. On Hwy. 78S, 5.6km south of Daleyville, Dane County. **latitude:** 42 deg. 50 min. W. **longitude:** 89 deg. 50 min. N. **remarks:** Seed collected from 60 plants, small dense restricted population. Plants typical, some leaves in axil of primary leaves of stem. Past flowering, good seed set. Some insect galls (wasps). Leaf damage, but not a disease. No rust present. Specimen collected. Collection #2026. Seed.

PI 547188 **origin:** United States. **collected:** September 15, 1989. **collector id:** GRO-2027. **other id:** Ames 13016. **source:** NC-7. **group:** Ames. **locality:** On steep roadside ditch at top of bank, on drier rocky soils. Population scattered on both sides of road, separated by 100m. Hwy. 69N, 1.6km west and 1.9km north of Clarno, Green County. **latitude:** 42 deg. 31 min. W. **longitude:** 89 deg. 41 min. N. **remarks:** Seed collected from 100 plants. Plants were variable, especially leaves, lower leaves very serrate, stem pithy, whitish bloom on stems, compact leaves. Some *H. giganteus* characteristics - leaves, stems branching. Peak flower time. Good seed set. Leaves had rust. Specimen collected. Collection #2027. Seed.

PI 547185 to 547202-continued

PI 547189 **origin:** United States. **collected:** September 15, 1989. **collector id:** GRO-2028. **other id:** Ames 13017. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, edge of corn field, on top of bank, in clay soil. Hwy. 20W, 12km west of Rockford, Winnebago County. **latitude:** 42 deg. 16 min. W. **longitude:** 89 deg. 08 min. N. **remarks:** Seed collected from 40 plants, dense small population. More typical *H. grosseserratus*, longer stems. Several heads had "mum" type heads, multiple flowered. Close to peak flower time, few heads collected, probably good seed set. No disease present, but plants were young. Collection # 2028. Seed.

PI 547190 **origin:** United States. **collected:** September 16, 1989. **collector id:** GRO-2032. **other id:** Ames 13018. **source:** NC-7. **group:** Ames. **locality:** In rocky gravel soil, waste area by radio tower. Hwy. 251S, 26km south of Rochelle, Lee County. **latitude:** 41 deg. 43 min. W. **longitude:** 89 deg. 05 min. N. **remarks:** Seed collected from 50 plants, large scattered population. Some very large lower leaves in population. Purple stems, serrate leaves, larger diameter stems. Just peak flower. Some variation in leaf size and serration. Good seed set. No rust collected or seen. Some insect head damage. Specimen collected. Collection #2032. Seed.

PI 547191 **origin:** United States. **collected:** September 16, 1989. **collector id:** GRO-2035. **other id:** Ames 13019. **source:** NC-7. **group:** Ames. **locality:** Along edge of flowing stream, along old railroad right-of-way. Population scattered along 250m of creek. Hwy. 51S, 21km south of Rutland, Woodfork County. **latitude:** 40 deg. 48 min. W. **longitude:** 89 deg. 02 min. N. **remarks:** Seed collected from 35 plants. Typical large serrate lower leaves, taller plants, purple stems. Several plants were dead prematurely, along edge of stream. Some plants had *H. giganteus* characteristics, but not the general appearance. Just peak flowering, seed set good. No rust present. Specimen collected. Collection #2035. Seed.

PI 547192 **origin:** United States. **collected:** September 16, 1989. **collector id:** GRO-2037. **other id:** Ames 13020. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, edge of flowing stream. Hwy. 24W, 4.8km west of Chenoa, Livingston County. **latitude:** 40 deg. 44 min. W. **longitude:** 88 deg. 46 min. N. **remarks:** Seed collected from 20 plants, small group of plants. Plants tall, 2.5 meter, typical *H. grosseserratus*. Just toward peak flowering. Some insect galls, some leaf damage, but not diseases. Specimen collected. Collection #2037. Seed.

PI 547185 to 547202-continued

PI 547193 **origin:** United States. **collected:** September 16, 1989. **collector id:** GRO-2039. **other id:** Ames 13021. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch. Hwy. 24E, 4.8km east of Wolcott. Just west of Gilman, Iroquois County. **latitude:** 40 deg. 45 min. W. **longitude:** 86 deg. 56 min. N. **remarks:** Seed collected from 20 plants, small population in small area. Typical plants, larger lower leaves, serrate. Plants just past peak flowering. Good seed set. Specimen collected. Collection #2039. Seed.

PI 547194 **origin:** United States. **collected:** September 16, 1989. **collector id:** GRO-2040. **other id:** Ames 13022. **source:** NC-7. **group:** Ames. **locality:** Small scattered population, in roadside ditch, edge of swampy area, by small stream. Hwy. 39S, 9.6km south of North Judson, Pulaski County. **latitude:** 41 deg. 16 min. W. **longitude:** 86 deg. 46 min. N. **remarks:** Seed collected from 50 plants. Plants were tall up to 2 meters, lower leaves not as serrate as normal but many lower leaves were dead. Plants did not have compact leaf arrangement, but did have secondary leaves in leaf axils. Also had purple stems. Good seed set. Some plants looked like *H. giganteus* type. Just past flowering. Specimen collected. Collection #2040. Seed.

PI 547195 **origin:** United States. **collected:** September 17, 1989. **collector id:** GRO-2043. **other id:** Ames 13023. **source:** NC-7. **group:** Ames. **locality:** Population isolated but very dense, in roadside ditch, along edge of dry stream bed, in sandy soil. Opening in mixed woods. Hwy. 66S, 14.4km south of Charlevoix, Charlevoix County. **latitude:** 45 deg. 12 min. W. **longitude:** 85 deg. 10 min. N. **remarks:** Seed collected from 150 plants. Many single headed, single stemmed plants. Very typical *H. grosseserratus*. Good seed set. Just past peak flowering. No disease or insect damage present. Specimen collected. Collection #2043. Seed.

PI 547196 **origin:** United States. **collected:** September 23, 1989. **collector id:** GRO-2077. **other id:** Ames 13024. **source:** NC-7. **group:** Ames. **locality:** Small isolated population, along swampy area next to railroad tracks. Hwy. 246E, east edge of Lewis, Vigo County. **latitude:** 39 deg. 15 min. W. **longitude:** 87 deg. 15 min. N. **remarks:** Seed collected from 84 plants. Plants at peak flower. Typical plants, tall, serrate leaves, branched above. Good seed set. Specimen collected. Collection #2077. Seed.

PI 547185 to 547202-continued

- PI 547197 **origin:** United States. **collected:** September 23, 1989. **collector id:** GRO-2081. **other id:** Ames 13025. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch along swampy area. Small isolated population, near wooded area about 500 square meters. In clay soil. Hwy. 1S, 14.8km south of Trimble, Crawford County. **latitude:** 38 deg. 55 min. N. **longitude:** 87 deg. 42 min. N. **remarks:** Seed collected from 100 plants, small isolated population. Good seed set. Plants at peak of flowering. Typical *H. grosseserratus* plants, most plants branched above. *H. divaricatus* intermixed, both appear to be good species. *H. grosseserratus* scattered along road for several miles. Specimen collected. Collection #2081. Seed.
- PI 547198 **origin:** United States. **collected:** September 23, 1989. **collector id:** GRO-2083. **other id:** Ames 13026. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, in recently cleared area, large scattered population extending 150m along edge of soybean field, in clay soil. Hwy. 130S, 16.5km south of Newton, Richland County. **latitude:** 38 deg. 53 min. W. **longitude:** 88 deg. 05 min. N. **remarks:** Seed collected from 75 plants. Seed set good. Peak flowering. Plants had some *H. maximiliani* characteristics, folded leaves, but still serrate, spreading bracts, alternate leaves somewhat in whorls, but not as compact as *H. maximiliani*. Plants 2 meters tall, red stems. Specimen collected. Collection #2083. Seed.
- PI 547199 **origin:** United States. **collected:** September 24, 1989. **collector id:** GRO-2088. **other id:** Ames 13027. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch along fence row. Intersection of Hwy. 36W and Hwy. 4N, Springfield, Sangamon County. **latitude:** 39 deg. 24 min. W. **longitude:** 89 deg. 39 min. N. **remarks:** Seed collected from 35 plants, small locally isolated population. Just past peak flowering. Good seed set. This population has some (many) characteristics of *grosseserratus*. Plants had serrated leaves opposite below, alternate above, red stems. tall plants, 2 - 2 1/2 meters, less compact leaf arrangement, branched above, narrow bracts. *H. maximiliani* and *H. annuus* found in general area next to population. Seed.

PI 547185 to 547202-continued

PI 547200 **origin:** United States. **collected:** September 24, 1989. **collector id:** GRO-2091. **other id:** Ames 13028. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, recently disturbed area along edge of corn field. Hwy. 24W, 3.2km west of Mt. Sterling, Brown County. **latitude:** 39 deg. 59 min. W. **longitude:** 90 deg. 50 min. N. **remarks:** Seed collected from 35 plants, small isolated population. Plants just past peak flowering. Good seed set. Plants more typical *H. grosseserratus*. Specimen collected. Collection #2091. Seed.

PI 547201 **origin:** United States. **collected:** September 24, 1989. **collector id:** GRO-2094. **other id:** Ames 13029. **source:** NC-7. **group:** Ames. **locality:** Along right-of-way of railroad, in area recently sprayed. Hwy. 24W, 7.4km west of Camp Point, Adams County. **latitude:** 40 deg. 03 min. W. **longitude:** 91 deg. 09 min. N. **remarks:** Seed collected from 75 plants, scattered population, much of which had been destroyed by spraying. Growing plants show signs of damage. Plants just past flowering, good seed set. Plants typical outside of spray area. Specimen collected. Collection #2094. Seed.

PI 547202 **origin:** United States. **collected:** September 24, 1989. **collector id:** GRO-2096. **other id:** Ames 13030. **source:** NC-7. **group:** Ames. **locality:** 0.8km east of I-80 and Exit 142 (US Hwy. 6) or 3.2km south of Lambs Grove, Jasper County. **latitude:** 41 deg. 41 min. W. **longitude:** 93 deg. 08 min. N. **remarks:** Seed collected from 20 plants, small isolated population. Plants just at peak flowering, good seed set. Typical *grosseserratus*, more serrate leaf than seen before. 2-2 1/2 meters tall. No disease or insect noticed. Specimen collected. Collection #2096. Seed.

PI 547203 to 547204. *Helianthus hirsutus* Raf. ASTERACEAE

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota, United States. Received February 12, 1991.

PI 547203 to 547204-continued

PI 547203 **origin:** United States. **collected:** September 21, 1989. **collector id:** HIR-2065. **other id:** Ames 13031. **source:** NC-7. **group:** Ames. **locality:** Restricted to roadside bank in ditch, opposite wooded area along slope of road. Open habitat. Hwy. 73W, 12km north of Locust Grove, Adams County. **latitude:** 39 deg. 02 min. W. **longitude:** 83 deg. 19 min. N. **remarks:** Seed collected from 50 plants, small isolated population. Past flowering, good seed set. Typical *H. hirsutus* opposite leaves, decussate ciliate petioles, short dark green leaves. Stems red (purple). About 5cm between leaf petioles. Bracts reflexed. Specimen collected. Collection #2065. Seed.

PI 547204 **origin:** United States. **collected:** September 24, 1989. **collector id:** HIR-2092. **other id:** Ames 13032. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch along edge of woods. Hwy. 24E, 3.2km east of Clayton, Adams County. **latitude:** 40 deg. 02 min. W. **longitude:** 90 deg. 54 min. N. **remarks:** Seed collected from 250 plants, very dense large population. Plants all much past flowering, good seed set. Many heads were dry and already shattered seeds. Very typical *hirsutus* plants. Dark green leaves, short ciliate petioles, most single headed, some slightly branched above. Plants typical height. Specimen collected. Rust present on many leaves, but not severe. Collection #2092. Seed.

PI 547205 to 547208. *Helianthus maximiliani* Schrader ASTERACEAE

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota, United States. Received February 12, 1991.

PI 547205 **origin:** United States. **collected:** September 16, 1989. **collector id:** MAX-2031. **other id:** Ames 13033. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, along tree row for about 100m, along waste area by Industrial Plant. Population scattered. Hwy. 251S, 26km south of Rochelle, Lee County. **latitude:** 41 deg. 43 min. W. **longitude:** 89 deg. 05 min. N. **remarks:** Seed collected from 75 plants, and rhizome collected. Peak flowering, good seed set. Plants appear to be *H. maximiliani*, leaf arrangement folded long narrow leaves, but not as pubescent as typical *H. maximiliani*. Also some plants like Ames 13041. Insect galls. No rust, maybe *Phomopsis*. Specimen collected. Collection #2031. Seed.

PI 547205 to 547208-continued

PI 547206 **origin:** United States. **collected:** September 19, 1989. **collector id:** MAX-2049. **other id:** Ames 13034. **source:** NC-7. **group:** Ames. **locality:** Edge of shelter belt by abandoned farm, also along edge of soybean field and in waste area near field, clay soil. Population scattered on both sides of road and in fields. Hwy. 53W, 17.3km west of Forest, Harfin County. **latitude:** 40 deg. 52 min. W. **longitude:** 83 deg. 34 min. N. **remarks:** Seed collected from 72 plants. Just past peak flowering. Good seed set. Plants generally have *H. maximiliani* characteristics. Leaves folded, wavy margins, lower one's quite large (long and wide). Stems very purple, very branched above. Multiple heads, some enlarged. Some heads had insect damage. Specimen collected. Collection #2049. Seed.

PI 547207 **origin:** United States. **collected:** September 23, 1989. **collector id:** MAX-2084. **other id:** Ames 13035. **source:** NC-7. **group:** Ames. **locality:** Along railroad right-of-way, extending for 50-100m, in clay soil. Hwy. 33E, 7km southeast of Effingham, Effingham County. **latitude:** 39 deg. 06 min. W. **longitude:** 88 deg. 29 min. N. **remarks:** Seed collected from 121 plants, scattered population Good seed set, small seeds. Plants short, 1/2 m tall, single headed, whorled and compact, folded, narrow (1 cm) wide. Plant did not have a grayish color as seen in northern *H. maximiliani*. Leaves were not serrate, undulating margins. Stems green. Several stems had gall from insect damage. Specimen collected. Collection #2084. Seed.

PI 547208 **origin:** United States. **collected:** September 24, 1989. **collector id:** MAX-2087. **other id:** Ames 13036. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch along fence row. Intersection of Hwy. 36W and Hwy. 4N, Springfield, Snagamon County. **latitude:** 39 deg. 49 min. W. **longitude:** 89 deg. 39 min. N. **remarks:** Seed collected from 75 plants, small isolated population. Plants peak flowering, good seed set. This population has mostly *maximiliani* characters, i.e. compact leaf arrangement, long and narrow somewhat folded, wavy margin, reflexed bracts. *H. annuus* and *grosseseratus* in general area. Specimen collected. Collection #2087. Seed.

PI 547209. *Helianthus mollis* Lam. ASTERACEAE

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PI 547209-continued

origin: United States. **collected:** September 23, 1989.
collector id: MOL-2079. **other id:** Ames 13037. **source:**
NC-7. **group:** Ames. **locality:** Up bank from swampy area,
along drier area by railroad tracks. Hwy. 246E, east
edge of Lewis, Vigo County. **latitude:** 39 deg. 15 min. W.
longitude: 86 deg. 15 min. N. **remarks:** Seed collected
from 45 plants and rhizomes collected. Small isolated
population. Seed set very good. Much past peak
flowering. Plants good H. mollis, sessile leaves, less
pubescent than other H. mollis populations. Specimen
collected. Collection #2079. Seed.

PI 547210. *Helianthus petiolaris* Nutt. ASTERACEAE

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P.O. Box 5677, Fargo, North Dakota, United States. Received
February 12, 1991.

origin: United States. **collected:** September 24, 1989.
collector id: PET-2090. **other id:** Ames 13038. **source:**
NC-7. **group:** Ames. **locality:** Roadside ditch, in
disturbed sandy soil. Hwy. 125E, east edge of
Beardstown, Cass County. **latitude:** 40 deg. 01 min. W.
longitude: 90 deg. 26 min. N. **remarks:** Seed collected
from 75 plants, small isolated population along sandy
roadside ditch, had been cut this year. Good seed set.
Past flowering, many heads dry. Plant shorter than normal
for *H. petiolaris* ssp. *petiolaris*. Head diameter somewhat
smaller in diameter than normal. Depauperate plants,
smaller leaves than normal. Specimen collected.
Collection #2090. Seed.

PI 547211. *Helianthus pauciflorus* Nutt. subsp. *pauciflorus* ASTERACEAE

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P.O. Box 5677, Fargo, North Dakota, United States. Received
February 12, 1991.

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Helianthus pauciflorus Nutt. ASTERACEAE
origin: United States. **collected:** September 16, 1989.
collector id: RIG-2036. **other id:** Ames 13039. **source:**
NC-7. **group:** Ames. **locality:** Roadside ditch, swampy
soil, by fence row. Hwy. 51S, 21km south of Rutland,
Woodford County. **latitude:** 40 deg. 48 min. W.
longitude: 89 deg. 02 min. N. **remarks:** Seed collected
from 25 plants, small isolated population (ca. 50
plants). Just peak flowering, seed set only 3-5 seed per
head. Plants had several *H. rigidus* ssp. *rigidus*
characteristics. Larger wider bracts than anything seen
until now, but not typical stature of rig-rig. Leaves
were not as hirsute and thick as one would expect. Rig is
my best estimation at this time. Specimen collected.
Seed.

PI 547212 to 547226. *Helianthus strumosus* L. ASTERACEAE

Donated by: Seiler, G.J., Agricultural Research Service -- USDA,
P.O. Box 5677, Fargo, North Dakota, United States. Received
February 12, 1991.

PI 547212 **origin:** United States. **collected:** September 14, 1989.
collector id: STR-2019. **other id:** Ames 13040. **source:**
NC-7. **group:** Ames. **locality:** Along edge of corn field,
waste area, in drier loam soil. Just off highway in
corner. Hwy. 44SW, 3.5km southwest of Pickett, Fond du
Lac County. **latitude:** 43 deg. 50 min. W. **longitude:** 88
deg. 56 min. N. **remarks:** Seed collected from 50 plants,
and rootstocks were also collected. Small scattered
population. Plants all past flowering, good seed set.
Shorter plants than typical, typical leaves slightly
branched above, 3-5 heads per plant, opposite, decussate,
lower leaf surface tomentose (puberulent). Population
mixed close to *H. giganteus*, Ames 13008. No apparent
outcrossing. No rust present. Specimen. Seed.

PI 547213 **origin:** United States. **collected:** September 16, 1989.
collector id: STR-2030. **other id:** Ames 13041. **source:**
NC-7. **group:** Ames. **locality:** In roadside ditch, edge of
stream and edge of corn field. Hwy. 251S, 22.9km south of
Rochelle, Lee County. **latitude:** 41 deg. 44 min. W.
longitude: 89 deg. 05 min. N. **remarks:** Seed collected
from 35 plants, small scattered population of ca. 50
plants. Plants in 50% flowering. Plants look very much
like *H. strumosus*, also has some characteristics of *H.*
tuberosus, but plants did not have tubers. Plants had 12
ray flowers, narrow petals, ca. 2-4 mm wide, spreading.
Insect damage to heads. Specimen collected. Collection
#2030. Seed.

PI 547212 to 547226-continued

- PI 547214 **origin:** United States. **collected:** September 16, 1989. **collector id:** STR-2033. **other id:** Ames 13042. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, along old railroad track bed, in very rocky soil. Hwy. 51N, 2.4km north of Tonica, LaSalle County. **latitude:** 41 deg. 13 min. W. **longitude:** 89 deg. 02 min. N. **remarks:** Seed collected from 49 plants, large scattered population (ca. 200 plants). Just peak flowering. Plants occurred in a very dry area, edge of old railroad bed. Typical *H. strumosus* otherwise. Seed set rather poor, only 3-4 seeds per head. Stem galls present on some plants. Rust on some plants, spores collected for Tom Gulya. Specimen collected. Collection #2033. Seed.
- PI 547215 **origin:** United States. **collected:** September 17, 1989. **collector id:** STR-2041. **other id:** Ames 13043. **source:** NC-7. **group:** Ames. **locality:** Higher bank of roadside ditch, in sandy soil. 4.8km west of Three Rivers, St. Joseph County. **latitude:** 41 deg. 57 min. W. **longitude:** 85 deg. 41 min. N. **remarks:** Seed collected from 35 plants, small population, restricted in area. Past peak flowering, good seed set. Most plants had very rough leaves on top, but tomentose on bottom. Somewhat larger bracts, reflexed. Powdery mildew present but no rust. Specimen collected. Collection #2041. Seed.
- PI 547216 **origin:** United States. **collected:** September 17, 1989. **collector id:** STR-2042. **other id:** Ames 13044. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, on edge of corn field, 90m along fence row. Hwy. 66S, 14.6km south of Nashville, Barry County. **latitude:** 42 deg. 24 min. W. **longitude:** 85 deg. 01 min. N. **remarks:** Seed collected from 35 plants, Plants past flowering, good set. Some plants very large(tall), had opposite leaves, but decussate. Plants had red stems, and stiff leaves, some lower leaves wide, 3-4", *H. tomentose* below. Maybe some *H. rigidus* characters. Specimen collected. Collection #2042. Seed.
- PI 547217 **origin:** United States. **collected:** September 19, 1989. **collector id:** STR-2044. **other id:** Ames 13045. **source:** NC-7. **group:** Ames. **locality:** In scrap metal pile, waste area along railroad right-of-way, rocky dry soil. On alternate Hwy. 66, 0.3km west of (truck) alternate 66 and Ohio Hwy. 111, Defiance, Defiance County. **latitude:** 41 deg. 17 min. W. **longitude:** 84 deg. 21 min. N. **remarks:** Seed collected from 75 plants. Plants past flowering. Seed set 10-15 seeds per head. Population had no leaf damage or diseases. Typical habitat for *H. strumosus* plants, typical characters, many branched above. Specimen collected. Collection #2044. Seed.

PI 547212 to 547226-continued

- PI 547218 **origin:** United States. **collected:** September 20, 1989. **collector id:** STR-2058. **other id:** Ames 13046. **source:** NC-7. **group:** Ames. **locality:** Population scattered over a wide area, 0.2km, gorge at edge of woods and cultivated wheat field. Along slope in roadside ditch, clay soil. Hwy. 37E, 2.0km east of Lancaster, Fairfield County. **latitude:** 39 deg. 43 min. W. **longitude:** 82 deg. 36 min. N. **remarks:** Seed collected from 150 plants. Past flowering, very good seed set. Plants typical of *H. strumosus*, tomentose lower leaves. Plants had a severe attack of powdery mildew. Some evidence of stem damage by top of heads, looked like head clipper. Specimen collected. Collection #2058. Seed.
- PI 547219 **origin:** United States. **collected:** September 21, 1989. **collector id:** STR-2059. **other id:** Ames 13047. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch along edge of waste area, in clay soils. 0.2km south of intersection of Hwy. 66S and Hwy. 10W, west of Pleasant Corners, Franklin County. **latitude:** 39 deg. 66 min. N. **longitude:** 83 deg. 05 min. N. **remarks:** Seed collected from 75 plants, small isolated population. Past peak flowering, seed set 3-5 seeds per head. Typical habitat for *strumosus*, plants were about 1 - 1 1/2 m tall, narrow bracts, tomentose lower leaves. Rust was present on many plants. Insect gall on several stems. One plant had been destroyed by ants burrowing into stem. Ditch had been sprayed, several heads were deformed. Seed.
- PI 547220 **origin:** United States. **collected:** September 21, 1989. **collector id:** STR-2060. **other id:** Ames 13048. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch a couple hundred meters along soybean field and in it, in clay soil swampy at some time of year. Hwy. 104N, 23km north of Andersonville, Pickaway County. **latitude:** 39 deg. 38 min. W. **longitude:** 83 deg. 00 min. N. **remarks:** Seed collected from 100 plants. Swampy area at some time of year. Lower leaves (surface) more glabrous bracts ciliate. Plants had expanded red rootstocks (tubers?) which were sprouting. Diseases present, verticillium, rust, and powdery mildew. Specimen collected. Collection #2060. Seed.

PI 547212 to 547226-continued

- PI 547221 **origin:** United States. **collected:** September 21, 1989. **collector id:** STR-2068. **other id:** Ames 13049. **source:** NC-7. **group:** Ames. **locality:** In thickets, in roadside ditch along edge of woods. Hwy. 27S 8.8km south of Richmond, Wayne County. **latitude:** 39 deg. 46 min. W. **longitude:** 84 deg. 52 min. N. **remarks:** Seed collected from 33 plants, population part of larger population scattered for a few meters. Plant just past peak flowering, 1-3 seeds per head. Plants in dry area, more single headed plants along edge of woods. More branched, bracts glabrous, somewhat reflexed, heads about 1/2" diameter. Leaves tomentose below, deeply veined (lateral), powdery mildew present, possibly verticillium. Also had. Seed.
- PI 547222 **origin:** United States. **collected:** September 22, 1989. **collector id:** STR-2072. **other id:** Ames 13050. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, along edge of wooded area, near recent bridge construction. Hwy. 56W, 5.1km west of Salem, Washington County. **latitude:** 38 deg. 36 min. W. **longitude:** 86 deg. 09 min. N. **remarks:** Seed collected from 40 plants, small isolated population. Plants at peak flowering, 3-5 seeds per head. Many single headed plants on drier slopes. Many lower leaves already dried up, but no evidence of rust. Lower leaf surface tomentose. Prominently veined. Some plants branched above. Bracts ciliate. Specimen collected. Collection #2072. Seed.
- PI 547223 **origin:** United States. **collected:** September 23, 1989. **collector id:** STR-2074. **other id:** Ames 13051. **source:** NC-7. **group:** Ames. **locality:** Edge of roadside ditch, edge of stream. Area had been mowed close by. Hwy. 46W, 10.1km southeast of Spenser, Monroe County. **latitude:** 39 deg. 17 min. W. **longitude:** 86 deg. 40 min. N. **remarks:** Seed collected from 30 plants, small isolated population. Plants at peak flowering, seed set 3-5 seed per head. Plants tall, 2 - 2 1/2 m. More typical strumosus, leaves, bracts glabrous, branched above. Specimen collected. Collection #2074. Seed.
- PI 547224 **origin:** United States. **collected:** September 23, 1989. **collector id:** STR-2075. **other id:** Ames 13052. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, in swampy area next to stream. Hwy. 246W, 4.8km west of Patricksburg, Owen County. **latitude:** 39 deg. 16 min. W. **longitude:** 86 deg. 59 min. N. **remarks:** Seed collected from 40 plants, small isolated population. Plants just past peak flowering, seed set variable, 1-5 seeds per head. Plants had mostly strumosus characteristics but tuberosus leaf characters. Specimen collected. Collection #2075. Seed.

PI 547212 to 547226-continued

PI 547225 **origin:** United States. **collected:** September 23, 1989. **collector id:** STR-2076. **other id:** Ames 13053. **source:** NC-7. **group:** Ames. **locality:** Drainage ditch along edge of soybean field, edge of small stream, extending for about a km along bank of stream. Hwy. 246W, 3.2km west of Martz, Clay County. **latitude:** 39 deg. 14 min. W. **longitude:** 87 deg. 08 min. N. **remarks:** Seed collected from 150 plants, large spreading population. Collection #2076. Seed.

PI 547226 **origin:** United States. **collected:** September 24, 1989. **collector id:** STR-2095. **other id:** Ames 13054. **source:** NC-7. **group:** Ames. **locality:** Plants along lower slope of steep bank of roadside ditch. Hwy. 96W, 1.6km southwest of Lomax, Henderson County. **latitude:** 40 deg. 40 min. W. **longitude:** 91 deg. 06 min. N. **remarks:** Seed collected from ca. 50 plants, isolated population, but had seen scattered population before. Seed set good. Plants were short for *H. strumosus*, but were growing on roadside bank. Lower surface of leaves tomentose, highly veined. Specimen collected. Collection #2095. Seed.

PI 547227 to 547248. *Helianthus tuberosus* L. ASTERACEAE

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota, United States. Received February 12, 1991.

PI 547227 **origin:** United States. **collected:** September 15, 1989. **collector id:** TUB-2024. **other id:** Ames 13055. **source:** NC-7. **group:** Ames. **locality:** Edge of roadside ditch, edge of corn field, near farm house. Sandy loam soil, wet at times of the year. Hwy. 78N, 8.5km northeast of Mirrimace, Columbia County. **latitude:** 43 deg. 24 min. W. **longitude:** 89 deg. 43 min. N. **remarks:** Seed collected from 50 plants. Plants just in peak flowering seed set low, only 1-4 seeds per head. Large seeds but probably good. Plants did not appear to be typical *tuberosus*, tubers were usually few and small. Plants had some *H. strumosus* (leaves tomentose below) characteristics. Sever rust present some plants appear dead from rust. Spores collected. Specimen collected. Collection #2024. Seed.

PI 547227 to 547248-continued

- PI 547228 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2045. **other id:** Ames 13056. **source:** NC-7. **group:** Ames. **locality:** Along stream near mixed hardwood forest, in clay soil. Hwy. 66N, 5.3km north of Arthur, Defiance County. **latitude:** 41 deg. 14 min. W. **longitude:** 84 deg. 21 min. N. **remarks:** Seed collected from 35 plants, small population - only 40 plants. Past flowering, seed set 3-5 seeds per head. Most plants were single headed. Plants typical at edge of stream those on slope much smaller and shorter. No disease or insect damage present. Specimen collected. Collection #2045. Seed.
- PI 547229 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2046. **other id:** Ames 13057. **source:** NC-7. **group:** Ames. **locality:** Very large population ca. 0.1 hectares, scattered along edge of soybean field and along wooded stream, in clay soils. Hwy. 66N, 6.2km north of Mandal, Paulding County. **latitude:** 41 deg. 04 min. W. **longitude:** 84 deg. 22 min. N. **remarks:** Seed collected from 150 plants. Just toward peak flower, seed set about 4-5 seeds per head. Had mostly tuberosus characteristics. Powdery mildew present on several plants, but did not kill leaves. Specimen collected. Collection #2046. Seed.
- PI 547230 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2047. **other id:** Ames 13058. **source:** NC-7. **group:** Ames. **locality:** Along edge of swampy area of roadside ditch, clay soil. Population scattered over 0.4 km area, narrow sand ditch. Hwy. 81W, 16.8km west of Ada, Allen County. **latitude:** 40 deg. 44 min. W. **longitude:** 84 deg. 01 min. N. **remarks:** Seed collected from 100 plants. Past peak flowering, seed set about 5-7 seeds per head. Very typical tuberosus habitat, larger leaves, and very red(purple) stems. Also typical branching. Plants up to 2 1/2 m tall. Largest leaves of tuberosus collected so far. Leaves branching from leaf axils. Specimen collected. Collection #2047. Seed.
- PI 547231 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2048. **other id:** Ames 13059. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch next to corn field, on edge of stream, in clay soil. Hwy. 81E, 1.9km east of Dunkirk, Hardin County. **latitude:** 40 deg. 46 min. W. **longitude:** 83 deg. 37 min. N. **remarks:** Seed collected from ca. 75 plants, dense isolated population. Just peak flowering, seed set 1-2 seeds per head. Plants tall ca. 3 m. On slope very red(purple) stems, very large leaves. Some rust present, but on very few leaves. Many plants branched above and branched in axils of leaves. Specimen collected. Collection #2048. Seed.

PI 547227 to 547248-continued

- PI 547232 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2050. **other id:** Ames 13060. **source:** NC-7. **group:** Ames. **locality:** Edge of corn field and some in corn field, on clay soil. Hwy. 39 and 60W, 6.7km west of Nashville, Holmes County. **latitude:** 40 deg. 36 min. W. **longitude:** 82 deg. 10 min. N. **remarks:** Seed collected from ca. 50 plants, small isolated population - ca. 100 plants. Just peak flowering, seed set 3-5 seeds per head. Typical plants, opposite leaves below, alternate above. Typical tuberosus leaves. Plants tall, 2 1/2 m. Hirsute stem. Rust present, severe on lower leaves. Specimen collected. Collection #2050. Seed.
- PI 547233 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2051. **other id:** Ames 13061. **source:** NC-7. **group:** Ames. **locality:** Slope of roadside ditch, in clay soil. Hwy. 83S, 1.6km south of Holmesville, Holmes County. **latitude:** 40 deg. 37 min. W. **longitude:** 81 deg. 51 min. N. **remarks:** Seed collected from 25 plants, small isolated population. Just past peak flowering, seed set 5-7 seeds per head. Plants typical, ca. 2m tall, larger lower leaves. Alternaria on plants close to collection, not Helianthus. No rust present. Specimen collected. Collection #2051. Seed.
- PI 547234 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2052. **other id:** Ames 13062. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch along edge of woods, in clay soil. Hwy. 585S, 9km south and 0.8km east of Easton, Wayne County. **latitude:** 40 deg. 52 min. W. **longitude:** 81 deg. 50 min. N. **remarks:** Seed collected from 85 plants, scattered population along edge of woods, ca. 300 plants. Just past peak flowering, seed set 3-5 seeds per head. Some plants up slope had lighter green leaves. More erect, tomentose lower surface, more like strumosus. General population had more tuberosus characteristics. Specimen collected. Collection #2052. Seed.

PI 547227 to 547248-continued

- PI 547235 **origin:** United States. **collected:** September 20, 1989. **collector id:** TUB-2055. **other id:** Ames 13063. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, edge of swampy area. Very weedy. On clay soil. Hwy. 9N, 5.6km north of Cadiz, Harrison County. **latitude:** 40 deg. 18 min. W. **longitude:** 81 deg. 01 min. N. **remarks:** Seed collected from 30 plants, small scattered population, about 50 plants - very weedy area. Seed set 3-5 seeds per head. Plants had most tuberosus characteristics, opposite leaves below, decussate, some very large. Bracts somewhat pubescent. Only seen this character in one other population Rust present on some plants, spores too old to collect. Specimen collected. Collection #2055. Seed.
- PI 547236 **origin:** United States. **collected:** September 20, 1989. **collector id:** TUB-2057. **other id:** Ames 13064. **source:** NC-7. **group:** Ames. **locality:** On slope of roadside ditch, in slate soil. Hwy. 78N, 1.9km north of Reinersville, Morgan County. **latitude:** 39 deg. 41 min. W. **longitude:** 81 deg. 40 min. N. **remarks:** Seed collected from 32 plants, small isolated population of 50 plants. Plants just past peak flowering, seed set 2-3 seeds per head. Plants typical tuberosus, except for habitat. Plants tall, ca. 2 m and branched above. Rust severe on lower leaves, many dead (rust?). Rust spores collected also. Specimen collected. Collection #2057. Seed.
- PI 547237 **origin:** United States. **collected:** September 21, 1989. **collector id:** TUB-2061. **other id:** Ames 13065. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, on edges of stream, close to water. Hwy. 104S, 2.4km south of Andersonville, Ross County. **latitude:** 39 deg. 25 min. W. **longitude:** 83 deg. 02 min. N. **remarks:** Seed collected from 75 plants. Plants just past peak flower, seed set 3-5 seeds per head. Plants looked like typical tuberosus, had very large lower leaves, up to 15.25 cm wide, stem purple, plants tall - up to 2 1/2 m, branched above. Powdery mildew present on most leaves. Also rust was present on many leaves. Specimen collected. Collection #2061. Seed.

PI 547227 to 547248-continued

- PI 547238 **origin:** United States. **collected:** September 21, 1989. **collector id:** TUB-2062. **other id:** Ames 13066. **source:** NC-7. **group:** Ames. **locality:** Large population scattered over 0.4km of recently disturbed area, along pushed-up ridge, on edge of wooded area, in clay soil. Hwy. 104N, 3.5km north of Bourneville, Ross County. **latitude:** 39 deg. 18 min. W. **longitude:** 83 deg. 09 min. N. **remarks:** Seed collected from over 100 plants. Plants just at peak flowering, seed set 3-5 seed per head. Plants had purple stems. Lower leaves very large, dark green very rough. Several plants had insect galls. Few plants had verticillium wilt. Most plants branched above. Specimen collected. Collection #2062. Seed.
- PI 547239 **origin:** United States. **collected:** September 21, 1989. **collector id:** TUB-2063. **other id:** Ames 13067. **source:** NC-7. **group:** Ames. **locality:** Along fence row next to alfalfa field, along roadside ditch. Hwy. 41S, 17.3km south of Cynthiana, Adams County. **latitude:** 39 deg. 01 min. W. **longitude:** 83 deg. 12 min. N. **remarks:** Seed collected from 25 plants, small isolated population. Past peak flowering, seed set 1-2 seeds per head. Plant had opposite leaves decussate, branched above. Red stems on many plants, have pubescent lower stems. Lower leaves rough and large. Short leaves, ca. 2 cm long somewhat expanded. Specimen collected. Collection #2063. Seed.
- PI 547240 **origin:** United States. **collected:** September 21, 1989. **collector id:** TUB-2064. **other id:** Ames 13068. **source:** NC-7. **group:** Ames. **locality:** Edge of marshy-swampy area along roadside ditch, dry soil. Hwy. 73W, 11.2km north of Locust Grove, Adams County. **latitude:** 39 deg. 02 min. W. **longitude:** 83 deg. 19 min. N. **remarks:** Seed collected from 15 plants, small isolated population. Several plants were on a drier bank. These plants were all single headed, depauperate looking plants. Narrow leaves, short and less than 1m, thin stems. Plants by stream more typical of tuberosus, had enlarged rootstocks. No specimen collected. Collection #2064. Seed.

PI 547227 to 547248-continued

- PI 547241 **origin:** United States. **collected:** September 21, 1989. **collector id:** TUB-2066. **other id:** Ames 13069. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, along edge of corn field and fence row, in clay soil. Hwy. 73W, just west of New Vienna, Clinton County. **latitude:** 39 deg. 19 min. W. **longitude:** 83 deg. 42 min. N. **remarks:** Seed collected from 45 plants. Plants larger near edge of corn. Seed set 1-3 seeds per head. Population past flowering, but head not brown(dry). Had many single headed plants in dryer area, lower leaf surface tomentose and very ribbed. Larger plants had large leaves. Bracts not reflex as much as typical hirsutus. Leaf petioles mostly about 2.5 cm long, ciliate. Specimen collected. Collection #2066. Seed.
- PI 547242 **origin:** United States. **collected:** September 21, 1989. **collector id:** TUB-2067. **other id:** Ames 13070. **source:** NC-7. **group:** Ames. **locality:** In roadside ditch, along woods and edge of corn field, in clay soil. Near Twin River bridge, Hwy. 123E, 0.6km southeast of Sunbury, Montgomery County. **latitude:** 39 deg. 36 min. W. **longitude:** 84 deg. 21 min. N. **remarks:** Seed collected from 40 plants, scattered population in variable habitat. Past peak flowering, seed set 1-3 seeds per head. Very severe rust on most leaves. Powdery mildew very common. Habitat in drier areas not typical of *H. tuberosus*, has some *strumosus* characteristics. Specimen collected. Collection #2067. Seed.
- PI 547243 **origin:** United States. **collected:** September 22, 1989. **collector id:** TUB-2069. **other id:** Ames 13071. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch, on edge of corn field, in clay soil. Hwy. 3S, 6.7km south of Rushville, Rush County. **latitude:** 39 deg. 34 min. W. **longitude:** 85 deg. 27 min. N. **remarks:** Seed collected from 40 plants, small isolated population. Plants just past peak flowering, 1-3 seeds per head. Plant had large lower leaves, up to 6" wide. Stem glabrous. Spray damage to some plants. Severe rust on most plants. Powdery mildew present. Specimen collected. Collection #2069. Seed.

PI 547227 to 547248-continued

- PI 547244 **origin:** United States. **collected:** September 22, 1989. **collector id:** TUB-2070. **other id:** Ames 13072. **source:** NC-7. **group:** Ames. **locality:** Edge of stream under road, also along edge of road and soybean field near wooded area. Stretching for several hundred meters. Hwy. 3S, 2.2km south of Westport, Decatur County. **latitude:** 39 deg. 10 min. W. **longitude:** 85 deg. 37 min. N. **remarks:** Seed collected from 100 plants, large population scattered along edge of road and field, stretching for several hundred meters. Past peak flower, 1-3 seeds per head. Plants tall, ca. 2m. Leaves alternate above and opposite below. Bracts of head ciliate, narrow. Rust was severe on many plants. Lower leaves were dead due to rust. Powdery mildew present, but not severe. Specimen collected. Seed.
- PI 547245 **origin:** United States. **collected:** September 22, 1989. **collector id:** TUB-2071. **other id:** Ames 13073. **source:** NC-7. **group:** Ames. **locality:** Population very large, stretching for 0.2 to 0.4km, along edge of cultivated soybean field and roadside ditch. Hwy. 3S, 1.6km south of Deputy, Jefferson County. **latitude:** 38 deg. 50 min. W. **longitude:** 85 deg. 45 min. N. **remarks:** Seed collected from 200 plants. Plants just at peak flowering. Seed set 1-3 seeds per head. Plants smaller than usual head diameter for species. Plants had alternate leaves above, opposite below. Severe rust problem on most plants. Specimen collected. Collection #2071. Seed.
- PI 547246 **origin:** United States. **collected:** September 22, 1989. **collector id:** TUB-2073. **other id:** Ames 13074. **source:** NC-7. **group:** Ames. **locality:** Small isolated population, restricted to 100m across. Roadside ditch, near abandoned house. Hwy. 37N, 13.4km north of English, Orange County. **latitude:** 38 deg. 28 min. W. **longitude:** 86 deg. 29 min. N. **remarks:** Seed collected from 75 plants, small isolated population, may be garden escape. Seed set variable, 1-4 seeds per head. Past peak flowering. No diseases present. Plants tall, up to 3m. Purple stems. Bracts not ciliate, large leaves, plants branched above. Specimen collected. Collection #2073. Seed.
- PI 547247 **origin:** United States. **collected:** September 23, 1989. **collector id:** TUB-2080. **other id:** Ames 13075. **source:** NC-7. **group:** Ames. **locality:** Along steep bank of river. Indiana side, just before Wabash River. Hwy. 154W, 9.6km west of Graysville, Sullivan County. **latitude:** 39 deg. 06 min. W. **longitude:** 87 deg. 38 min. N. **remarks:** Seed collected from 100 plants, large scattered population. Plants in peak flowering, seed set 1-3 seeds per head. Typical plants and habitat for tuberosus. Specimen collected. Collection #2080. Seed.

PI 547227 to 547248-continued

PI 547248 **origin:** United States. **collected:** September 24, 1989. **collector id:** TUB-2089. **other id:** Ames 13076. **source:** NC-7. **group:** Ames. **locality:** Backslope of roadside ditch. Hwy. 125E, 0.6km southeast of Philadelphia, Cass County. **latitude:** 39 deg. 54 min. W. **longitude:** 90 deg. 07 min. N. **remarks:** Seed collected from 50 plants, small isolated population. Past peak flowering, seed set variable. Plants typical of *H. tuberosus*. Powdery mildew present. Rust on some plants severe. Typical leaves, dark green, smaller head. Specimen collected. Collection #2089. Seed.

PI 547249. *Oryza sativa* L. POACEAE Rice

Donated by: Tseng, S.T., California Cooperative Rice Res. Fdn., P.O. Box 306, Biggs, California, United States; and California Agr. Exp. Sta.. **remarks:** L-203 Rice. Received February 06, 1991.

origin: United States. **origin institute:** California Cooperative Rice Res. Fdn., P.O. Box 306, Biggs, California 95971. **cultivar:** L-203. **pedigree:** L-202/5/5915C-35-8/3/1R-8/R1-7*3/2/R50-1/4/77-Y-48. **other id:** R8845. **other id:** PVP 9100204. **source:** Pending. **group:** PVPO. **other id:** CV-89. **group:** CSR-RICE. **remarks:** Photoperiod, non-sensitive, early maturing, semidwarf, long-grain cultivar. Plants awnless with glabrous leaves and hulls, and anthocyanin in apiculi only. Tolerant of thioencarb and molinate herbicides. Similar to L-202 in reaction to stem rot and aggregate sheath spot pathogens. Kernel weight 21.3mg. Endosperm colorless, non-glutinous, non-aromatic, with apparent amylose content 25.5%, and. Annual. Cultivar. Seed.

PI 547250. *Triticum aestivum* L. POACEAE Wheat

Donated by: Cisar, G., Hybritech Seed International, 6025 West 300 South, Lafayette, Indiana, United States. Received January 28, 1991.

PI 547250-continued

donor id: LB 63. **origin:** United States. **origin institute:** Hybritech Seed International, 6025 West 300 South, Lafayette, Indiana 47905. **pedigree:** Arthur/Perdix (F4)/2/P68243A3-9-1-8D. **remarks:** Test weight high. Straw strength good. Winter hardy. Maturity 2.5 days later than Caldwell. Height similar to Caldwell. Resistant to leaf rust (*Puccinia recondita*), stem rust (*P. graminis*), and powdery mildew (*Erysiphe graminis*). Moderately resistant to *Septoria tritici* and soilborn mosaic virus. Susceptible to Hessian Fly biotypes E and L. Annual. Breeding Material. Seed.

PI 547251 to 547255. *Hordeum vulgare* L. POACEAE Barley

Donated by: Franckowiak, J.D., North Dakota Agr. Exp. Station, Department of Crop and Weed Sciences, North Dakota State University, Fargo, North Dakota, United States. Received January 28, 1991.

PI 547251 **donor id:** ND 9866. **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., Department of Crop and Weed Sciences, North Dakota State University, Fargo, North Dakota 58105. **pedigree:** ND 7014 Bowman sib O). Annual. Breeding Material. Seed.

PI 547252 **donor id:** ND 9870. **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., Department of Crop and Weed Sciences, North Dakota State University, Fargo, North Dakota 58105. **pedigree:** ND 7015/Bowman sib. Annual. Breeding Material. Seed.

PI 547253 **donor id:** ND 10277. **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., Department of Crop and Weed Sciences, North Dakota State University, Fargo, North Dakota 58105. **pedigree:** ND 8830/Bowman. Annual. Breeding Material. Seed.

PI 547254 **donor id:** ND 10278. **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., Department of Crop and Weed Sciences, North Dakota State University, Fargo, North Dakota 58105. **pedigree:** ND 8830/Bowman. Annual. Breeding Material. Seed.

PI 547255 **donor id:** ND 11231. **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., Department of Crop and Weed Sciences, North Dakota State University, Fargo, North Dakota 58105. **pedigree:** ND 7085/Bowman Sib/2/ND 7556. Annual. Breeding Material. Seed.

PI 547256 to 547257. *Hordeum vulgare* L. POACEAE Barley

Donated by: Ullrich, S.E., Washington Agr. Exp. Sta., Department of Agronomy and Soil Science, Washington State University, Pullman, Washington, United States. Received January 28, 1991.

PI 547256 **donor id:** WA 9035-84. **origin:** United States. **origin institute:** Washington Agr. Exp. Sta., Department of Agronomy and Soil Science, Washington State University, Pullman, Washington 99164. **pedigree:** WA 10698-76/Elrose. **remarks:** 2-row spike. Developed for malting. Spring Annual. Breeding Material. Seed.

PI 547257 **donor id:** WA 11224-86. **origin:** United States. **origin institute:** Washington Agr. Exp. Sta., Department of Agronomy and Soil Science, Washington State University, Pullman, Washington 99164. **pedigree:** WA 8334-81/Hazen. **remarks:** 6-row spike. Developed for malting. Spring Annual. Breeding Material. Seed.

PI 547258. *Avena sativa* L. POACEAE Common oat

Donated by: Marshall, H.G., R.D. 2, Box 230, Bellefonte, Pennsylvania, United States. Received January 28, 1991.

donor id: PA 8393-12861. **origin:** United States. **origin institute:** USDA-ARS and Pennsylvania Agr. Exp. Sta., Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** PA 7733-2112/New York Composite/2/Risto. **remarks:** Height medium. Lodging resistance good. Maturity slightly earlier than Ogle, similar to Noble. Bushel weight very high. Kernel type excellent, dull white. Spring Annual. Breeding Material. Seed.

PI 547259 to 547261. *Camellia* hybrid THEACEAE

Donated by: U.S. National Arboretum, USDA-ARS, 3501 New York Avenue, NE, Washington, District of Columbia, United States. Received February 22, 1991.

PI 547259 **donor id:** NA 62301. **origin:** United States. **cultivar:** WINTER'S CHARM. **pedigree:** *C. sasanqua* Takura-awase/*C. oleifera*. **remarks:** Plant moderately vigorous, upright. Leaves leathery, glossy dark green, obovate, 9cm long, 4cm wide with coarsely serrated margins. Flowers 9cm, lavender pink (RHS 75B) peony form, 14 petals, 14 petaloids. Blooms up to 6 weeks in October and November. Shrub. Cultivar. Plant.

PI 547259 to 547261-continued

PI 547260 **donor id:** NA 62302. **origin:** United States. **cultivar:** WINTER'S HOPE. **pedigree:** *C. oleifera*/Frost Princess (*C. hiemalis*/*C. oleifera*). **remarks:** Plant moderately vigorous, upright. Leaves leathery, glossy, very dark green, ovate, 8cm long, 4.5cm wide, with crenate margins. Flowers 9.5cm, white, semi-double, 12 petals. Blooms up to 5 weeks in October and November. Shrub. Cultivar. Plant.

PI 547261 **donor id:** NA 62303. **origin:** United States. **cultivar:** WINTER'S STAR. **pedigree:** *C. oleifera*/*C. hiemalis* Showa-no-Sakae. **remarks:** Plant moderately vigorous, upright. Leaves leathery, semi-glossy, medium green, obovate, 9.5cm long, 4cm wide with crenate to somewhat serrate margins. Flower 8.5cm, red-purple (RHS 74C-D), single, 6 petals. Blooms up to 6 weeks in October and November. Shrub. Cultivar. Plant.

PI 547262 to 547267. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Aldis, P.R., ICI Seeds UK Limited, Plant Breeding and Research Centre, Docking King's Lynn, Norfolk PE31 8LS, England, United Kingdom. Received February 21, 1991.

PI 547262 **origin:** United Kingdom. **origin institute:** ICI Seeds UK Limited, Plant Breeding and Research Centre, Docking King's Lynn, Norfolk PE31 8LS, England. **cultivar:** PRESIDENT. **pedigree:** Avalon/Norman. **remarks:** Semidwarf, hard milling, winter variety. Grain red. Winterhardiness low. Winter Annual. Cultivar. Seed.

PI 547263 **origin:** United Kingdom. **origin institute:** ICI Seeds UK Limited, Plant Breeding and Research Centre, Docking King's Lynn, Norfolk PE31 8LS, England. **cultivar:** COLONEL. **pedigree:** Guardian sib/Moulin. **remarks:** Breadmaking, semidwarf, semi-alternative, winter variety. Vernalization requirement and winterhardiness low. Grain red. Winter Annual. Cultivar. Seed.

PI 547264 **origin:** United Kingdom. **origin institute:** ICI Seeds UK Limited, Plant Breeding and Research Centre, Docking King's Lynn, Norfolk PE31 8LS, England. **cultivar:** ADMIRAL. **pedigree:** Mithras/Hobbit-Hedgehog line. **remarks:** Semidwarf, winter variety. Yield very high. Grain red, soft. Winterhardiness low. Good resistance to yellow stripe rust. Some resistance to *Septoria tritici*. Winter Annual. Cultivar. Seed.

PI 547262 to 547267-continued

PI 547265 **origin:** United Kingdom. **origin institute:** ICI Seeds UK Limited, Plant Breeding and Research Centre, Docking King's Lynn, Norfolk PE31 8LS, England. **cultivar:** COMMODORE. **pedigree:** Mithras/Hobbit-Hedgehog line. **remarks:** Semidwarf, winter variety. Yield very high. Grain red, soft. Winterhardiness low. Good resistance to *Septoria tritici*. Some resistance to yellow stripe rust. Winter Annual. Cultivar. Seed.

PI 547266 **origin:** United Kingdom. **origin institute:** ICI Seeds UK Limited, Plant Breeding and Research Centre, Docking King's Lynn, Norfolk PE31 8LS, England. **cultivar:** SOLDIER. **pedigree:** Squadron/Rendezvous. **remarks:** Short, semidwarf, winter variety. General disease resistance good. Winterhardiness low. Yield very high. Winter Annual. Cultivar. Seed.

PI 547267 **origin:** United Kingdom. **origin institute:** ICI Seeds UK Limited, Plant Breeding and Research Centre, Docking King's Lynn, Norfolk PE31 8LS, England. **cultivar:** FORTRESS. **pedigree:** Wizard/Fl 3575. **remarks:** Semidwarf, winter variety. Yield high. Straw very stiff. Winterhardiness low. Winter Annual. Cultivar. Seed.

PI 547268. *Elytrigia pungens* subsp. *campestris* (Gren. & Godr.) A. Love
POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC001. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-47386. **collected:** January 17, 1989. **collector id:** AJC001. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-79-66--75 1990. **received as:** *Agropyron pungens* ssp. *campestre*. Perennial. Wild. Seed.

PI 547269 to 547286. *Agropyron cristatum* (L.) Gaertn. POACEAE Fairway crested wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547269 **donor id:** AJC002. **origin:** USSR. **collected:** August 23, 1988. **collector id:** AJC002. **locality:** 95km SW of Aktyubinsk, AKTU-95, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-81-16--25 1990. Perennial. Wild. Seed.

PI 547269 to 547286-continued

- PI 547270 **donor id:** AJC003. **origin:** USSR. **collected:** August 23, 1988. **collector id:** AJC003. **locality:** 145km SW of Aktyubinsk, before Aktu-152, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-79-21--30 1990. Perennial. Wild. Seed.
- PI 547271 **donor id:** AJC005B. **origin:** USSR. **collected:** August 23, 1988. **collector id:** AJC005B. **locality:** Roadside, heavily grazed, gypsum area, very dry, highly eroded, 184km near Aktu-185, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-79-33-35-- 36 1990. Perennial. Wild. Seed.
- PI 547272 **donor id:** AJC006. **origin:** USSR. **collected:** August 20, 1988. **collector id:** AJC006. **locality:** Medeo Dam site, top of dam, Alma Ata region. **elevation:** 2022m. **remarks:** Seed for 1968 planting came from local meadows, mixed grass/forbs. Seed increased USDA-ARS, Logan, Utah. Nursery MA-80-36--40. 1990. Perennial. Wild. Seed.
- PI 547273 **donor id:** AJC007. **origin:** USSR. **collected:** August 26, 1988. **collector id:** AJC007. **locality:** Roadside and hay field mixed grass/forbes, ungrazed and uncut, 15km SE of Karavannity, on Gregarin State Farm, Karavannity, Orenburg region. **elevation:** 228m. **remarks:** Annual precipitation 280mm. Seed increased USDA-ARS, Logan, Utah. Nursery MA-79-38--45. 1990. Perennial. Wild. Seed.
- PI 547274 **donor id:** AJC008. **origin:** USSR. **collected:** August 22, 1988. **collector id:** AJC008. **locality:** Roadside, no grazing, 18km NW of Molodetskoye, Aktube-2, Karaganda region. **elevation:** 182m. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-79-46--55 1990. Perennial. Wild. Seed.
- PI 547275 **donor id:** AJC009. **origin:** USSR. **collected:** August 22, 1988. **collector id:** AJC009. **locality:** 3km N of Zakharovka at 2nd cemetery, dry site on west side of road, Zakharovka-1, Karaganda region. **elevation:** 167m. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA 79-56--65 1990. Perennial. Wild. Seed.
- PI 547276 **donor id:** AJC010. **origin:** USSR. **collected:** August 25, 1988. **collector id:** AJC010. **locality:** Roadside, no grazing, dry, 15km WNW of Martuk on route from Aktyubinsk to Orenburg, Martuk-1, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA 80-71--80 1990. Perennial. Wild. Seed.

PI 547269 to 547286-continued

- PI 547277 **donor id:** AJC012. **origin:** USSR. **collected:** August 26, 1988. **collector id:** AJC012. **locality:** Roadside and hay field mixed with grass/forbs, ungrazed and uncut, 15km SE of Karavannity, on Gregarin State Farm, Karavannity, Orenburg region. **elevation:** 228m. **remarks:** Annual precipitation 280mm. Seed increased USDA-ARS, Logan, Utah. Nursery MA-81-11--20 1990. Perennial. Wild. Seed.
- PI 547278 **donor id:** AJC013. **origin:** USSR. **collected:** August 21, 1988. **collector id:** AJC013. **locality:** Low lying hay meadow with Artemisia, 6km SE toward airport, Karaganda region. **elevation:** 228m. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery -81-21--30 1990. Perennial. Wild. Seed.
- PI 547279 **donor id:** AJC014. **origin:** USSR. **collected:** August 26, 1988. **collector id:** AJC014. **locality:** Shelter belt of trees and grass, 3km E of Ivanovka, Ivanovka-1, Orenburg region. **elevation:** 228m. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-80-41--49 1990. Perennial. Wild. Seed.
- PI 547280 **donor id:** AJC015. **origin:** USSR. **collected:** August 22, 1988. **collector id:** AJC015. **locality:** Edge of cultivated wheat, 5km S of Keivka, Kievka-1, Karaganda region. **elevation:** 139m. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-79-1--10 1990. Perennial. Wild. Seed.
- PI 547281 **donor id:** AJC017. **origin:** USSR. **collected:** August 13, 1988. **collector id:** AJC017. **locality:** Gorno-Altysk Airport, Altai region, Siberia. **elevation:** 578m. **remarks:** Very sparse stand, 7 plants with Dactylis, Bromus and Melilotus. Seed increased USDA-ARS, Logan, Utah. Nursery MA-79-11--20 1990. Perennial. Wild. Seed.
- PI 547282 **donor id:** AJC022. **origin:** USSR. **collected:** August 15, 1988. **collector id:** AJC022. **locality:** Hillside with Psathyrostachys juncea, 0.5km S of Tuekta, Altai region, Siberia. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-80-1--10 1990. Perennial. Wild. Seed.
- PI 547283 **donor id:** AJC023. **origin:** USSR. **origin institute:** Altai Res. Inst. of Soil Mgt. & Pl. Br., Siberian Branch, Lauaas. **cultivar:** ONGUDAISKI. **collected:** January 20, 1989. **collector id:** AJC023. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-81-31--40. Perennial. Cultivar. Seed.

PI 547269 to 547286-continued

PI 547284 **donor id:** AJC052. **origin:** USSR. **collected:** August 22, 1988. **collector id:** AJC052. **locality:** Along highway, no grazing pressure, 5km SE of Molodetskoye, Molo-1, Karaganda region. **elevation:** 182m. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-84-76--85 1990. Perennial. Wild. Seed.

PI 547285 **donor id:** AJC053. **origin:** USSR. **collected:** August 22, 1988. **collector id:** AJC053. **locality:** Heavily grazed, mostly grass, 1 km NW of Kurluz on dirt road, Kurluz 1, Karaganda region. **elevation:** 258m. **remarks:** Seed increased USDA-ARS, Logan, Utah. Seed increased USDA-ARS, Logan, Utah. Nursery MA-84-66--75 1990. Perennial. Wild. Seed.

PI 547286 **donor id:** AJC584. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **collected:** March 27, 1989. **collector id:** AJC584. **remarks:** Wild growing population from the Caucasus. Increased at Alma Ata, Kazakh SSR. Seed increased USDA-ARS, Logan, Utah. Nursery MA-81-61--70 1990. **received as:** *A. cristatum* subsp. *puberulum*. Perennial. Wild. Seed.

PI 547287. *Agropyron cristatum* (L.) Gaertner subsp. *cristatum* POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC583. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **cultivar:** KARABALYSKSKY. **collected:** March 27, 1989. **collector id:** AJC583. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-81-71--80 1990. Perennial. Cultivar. Seed.

PI 547288 to 547296. *Agropyron desertorum* (Fisch. ex Link) Schultes
POACEAE Standard crested wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547288 **donor id:** AJC024. **origin:** USSR. **collected:** August 23, 1988. **collector id:** AJC024. **locality:** Roadside, no grazing, 38km SW of Aktyubinsk, Aktu-38, Aktyubinsk region. **remarks:** Annual precipitation 200-300mm. Seed increased USDA-ARS, Logan, Utah. Nursery MA-82-26--35 1990. Perennial. Wild. Seed.

PI 547288 to 547296-continued

- PI 547289 **donor id:** AJC025. **origin:** USSR. **collected:** August 24, 1988. **collector id:** AJC025. **locality:** Next to highway, no grazing, dry and eroded, 160km SE of Aktyubinsk, last stop on way back to Aktyubinsk, Oktyabrisk, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-83-21--30 1990. Perennial. Wild. Seed.
- PI 547290 **donor id:** AJC027. **origin:** USSR. **collected:** August 25, 1988. **collector id:** AJC027. **locality:** Edge of road, no grazing, dry, 15km WNW of Martuk on route from Aktyubinsk to Orenburg, Martuk-1, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-83-36-38-39 1990. Perennial. Wild. Seed.
- PI 547291 **donor id:** AJC028. **origin:** USSR. **collected:** August 23, 1988. **collector id:** AJC028. **locality:** Some grazing, 80km SW of Aktyubinsk city next to Malaya Khobda River, near Aktu-70, Aktu-80, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-38-11--20 1990. Perennial. Wild. Seed.
- PI 547292 **donor id:** AJC030. **origin:** USSR. **collected:** August 24, 1988. **collector id:** AJC030. **locality:** Next to highway, dry, eroded, 160km SE of Aktyubinsk, last stop on way back to Aktyubinsk, Oktyabrisk, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-82-46--55 1990. Perennial. Wild. Seed.
- PI 547293 **donor id:** AJC032. **origin:** USSR. **collected:** August 23, 1988. **collector id:** AJC032. **locality:** Near Aktu-152, 145km SW of Aktyubinsk, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-56--65 1990. Perennial. Wild. Seed.
- PI 547294 **donor id:** AJC033. **origin:** USSR. **collected:** August 25, 1988. **collector id:** AJC033. **locality:** Edge of road, dry, no grazing, 15km WNW of Martuk, on route from Aktyubinsk to Orenburg, Martuk-1, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-82-66--75 1990. Perennial. Wild. Seed.
- PI 547295 **donor id:** AJC036. **origin:** USSR. **collected:** August 23, 1988. **collector id:** AJC036. **locality:** Roadside, sandy soil, heavily grazed and eroded, Aktu-200, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah, Nursery MA-82-76--85 1990. Perennial. Wild. Seed.

PI 547288 to 547296-continued

PI 547296 **donor id:** AJC037. **origin:** USSR. **collected:** August 26, 1988. **collector id:** AJC037. **locality:** Wooded site, cottonwoods and willow, sandy ridge along river, cemetery at Bolshevik, Chkalov State Farm just east of Blagoslovienska village, Orenburg region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-83-1--10 1990. Perennial. Wild. Seed.

PI 547297 to 547302. *Agropyron fragile* (Roth) Candargy POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547297 **donor id:** AJC039. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-35554. **collected:** 1986. **collector id:** AJC039. **locality:** Krasnovodopadskij 414 Chimkent region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-83-66--75 1990. Perennial. Wild. Seed.

PI 547298 **donor id:** AJC040. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-27634. **collected:** 1982. **collector id:** AJC040. **locality:** Aktyubinskij uzkokolosyj region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-83-76--85 1990. Perennial. Wild. Seed.

PI 547299 **donor id:** AJC041. **origin:** USSR. **collected:** August 23, 1988. **collector id:** AJC041. **locality:** Saraldjy State Farm, dryland pasture, ungrazed, 15km SE of power transformer station along road, Saraldjy-4, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-84-31--40 1990. Perennial. Wild. Seed.

PI 547300 **donor id:** AJC049. **origin:** USSR. **collected:** August 24, 1988. **collector id:** AJC049. **locality:** Campsite near Uil River, grass/forbs legume, silt loam(?), middle of Khazak plain, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-83-51--60 1990. Perennial. Wild. Seed.

PI 547301 **donor id:** AJC050. **origin:** USSR. **collected:** August 24, 1988. **collector id:** AJC050. **locality:** Roadside, dry, grass/forb, 40km SE of Shubar-Kudak, Shubar-Kudak, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-83-61--65 1990. Perennial. Wild. Seed.

PI 547297 to 547302-continued

PI 547302 **donor id:** AJC051. **origin:** USSR. **collected:** August 23, 1988. **collector id:** AJC051. **locality:** Saraldjy State Farm-2, dryland area of farm, right next to power transformer station, Aktyubinsk region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-84-56--65 1990. Perennial. Wild. Seed.

PI 547303. *Elymus ciliaris* subsp. *amurensis* (Drobov) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC219. **origin:** USSR. **origin institute:** Central Siberian Botanical Gardens, Academy of Sciences of USSR, Siberian Division, Novosibirsk. **collected:** August 1988. **collector id:** AJC219. **locality:** Near Hasan, far east Primorsky region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-63-11--20 1990. **received as:** *Elymus amurensis*. Perennial. Wild. Seed.

PI 547304 to 547306. *Elymus caninus* (L.) L. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547304 **donor id:** AJC222. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-45885. **collected:** January 17, 1989. **collector id:** AJC222. **locality:** L.Dikorastuscij. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-63-21--30 1990. Perennial. Wild. Seed.

PI 547305 **donor id:** AJC224. **origin:** USSR. **collected:** August 15, 1988. **collector id:** AJC224. **locality:** Grass/legume meadow, N face, 10km N of Tuekta, Altai region. **elevation:** 1216m. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-63-21--30 1990. Perennial. Wild. Seed.

PI 547306 **donor id:** AJC253. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-45886. **collected:** January 17, 1989. **collector id:** AJC253. **locality:** Dikorastuscij. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-69-1--15 1990. Perennial. Wild. Seed.

PI 547307. *Elymus dahuricus* Turcz. ex Griseb. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC233. **origin:** USSR. **origin institute:** Central Siberian Botanical Gardens, Academy of Sciences of USSR, Siberian Division, Novosibirsk. **collected:** August 1988. **collector id:** AJC233. **locality:** Talas, Khirgizia, Republic USSR. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-66-71--80 1990. Perennial. Wild. Seed.

PI 547308. *Elymus fedtschenkoi* Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC239. **origin:** USSR. **origin institute:** Central Siberian Botanical Gardens, Academy of Sciences of USSR, Siberian Division, Novosibirsk. **collected:** August 1988. **collector id:** AJC239. **locality:** North Tian-Shan, 80km from Alma Ata. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-67-36--45 1990. Perennial. Wild. Seed.

PI 547309. *Elymus pendulinus* (Nevski) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC254. **origin:** USSR. **origin institute:** Central Siberian Botanical Gardens, Academy of Sciences of USSR, Siberian Division, Novosibirsk. **collected:** August 1988. **collector id:** AJC254. **locality:** F 1 near Vladyvostok. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-68-72--85 1990. Perennial. Wild. Seed.

PI 547310. *Elymus* sp. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547310-continued

donor id: AJC283. **origin:** USSR. **origin institute:** Central Siberian Botanical Gardens, Academy of Sciences of USSR, Siberian Division, Novosibirsk. **collected:** August 1988. **collector id:** AJC283. **locality:** North Tjan-Sehan, 80km from Alma Ata. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-69-26--34 1990. Perennial. Wild. Seed.

PI 547311. *Elytrigia caespitosa* (K. Koch) Nevski POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC287. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-44721. **collected:** 1982. **collector id:** AJC287. **locality:** Crimean region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-73-1--10 1990. **received as:** *Thinopyrum caespitosm ssp. nodosa*. Perennial. Wild. Seed.

PI 547312 to 547313. *Elytrigia pontica* (Podp.) Holub POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547312 **donor id:** AJC289. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-44719. **collected:** 1982. **collector id:** AJC289. **locality:** Dikorastuscij Krasnodar Territory. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-73-21--30 1990. **received as:** *Thinopyrum ponticum*. Perennial. Wild. Seed.

PI 547313 **donor id:** AJC290. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-44486. **collected:** 1983. **collector id:** AJC290. **locality:** Dikorastuscij Rostov region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-73-31--40 1990. **received as:** *Thinopyrum ponticum*. Perennial. Wild. Seed.

PI 547314 to 547319. *Elytrigia intermedia* (Host) Nevski POACEAE
Intermediate wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547314 **donor id:** AJC298. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-37642. **collected:** 1985. **collector id:** AJC298. **locality:** Dikorastuscij Chimkent region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-73-51--60 1990. **received as:** *Thinopyrum intermedium* ssp. *trichophora*. Perennial. Wild. Seed.

PI 547315 **donor id:** AJC299. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-45874. **collected:** 1986. **collector id:** AJC299. **locality:** Damsinskij. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-73-61--70 1990. **received as:** *Thinopyrum intermedium*. Perennial. Wild. Seed.

PI 547316 **donor id:** AJC301. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-37194. **collected:** 1986. **collector id:** AJC301. **locality:** Dikorastuscij Moldavian. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-74-1-5 1990. **received as:** *Thinopyrum intermedium*. Perennial. Wild. Seed.

PI 547317 **donor id:** AJC303. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-37195. **collected:** 1987. **collector id:** AJC303. **locality:** Dikorastuscij Kiev region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-74-16--25 1990. **received as:** *Thinopyrum intermedium* ssp. *trichophora*. Perennial. Wild. Seed.

PI 547318 **donor id:** AJC304. **origin:** USSR. **origin institute:** Altai Res. Inst. of Soil Mgt. & Pl. Br., Siberian Branch of the Lauaas, Lauaas. **collected:** January 20, 1989. **collector id:** AJC304. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-74-26--35 1990. **received as:** *Thinopyrum intermedium*. Perennial. Cultivated. Seed.

PI 547319 **donor id:** AJC325. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **origin institute id:** VIR-33860. **collected:** 1986. **collector id:** AJC325. **locality:** Dikorastuscij. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-72-31--40 1990. **received as:** *Thinopyrum intermedium*. Perennial. Wild. Seed.

PI 547320. *Elymus fibrosus* (Schrenk) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC319. **origin:** USSR. **collected:** August 26, 1988. **collector id:** AJC319. **locality:** Bank of Ural River, 12.9km E of Kruchkovka, Kruch-2, Orenburg region. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-71-36--45 1990. Perennial. Wild. Seed.

PI 547321. *Elymus trachycaulus* (Link) Gould ex Shinn. POACEAE Slender wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC327. **origin:** USSR. **origin institute:** Institute of Cytology and Genetics, Academy of Science USSR, Siberian Branch, Novosibirsk. **collected:** August 14, 1988. **collector id:** AJC327. **locality:** Experimental farm in Cherga. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-72-10--20 1990. Perennial. Cultivated. Seed.

PI 547322 to 547323. *Agropyron cristatum* subsp. *pectinatum* (M.-Bieb.) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547322 **donor id:** AJC587. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **cultivar:** SYNTHETIC 6. **collected:** May 16, 1989. **collector id:** AJC587. **remarks:** A 6-clone synthetic from populations from the United States, Canada, Romania, Italy, Siberia, and Stavropol. Seed increased USDA-ARS, Logan, Utah. Nursery MA-82-6--10. Perennial. Cultivar. Seed.

PI 547323 **donor id:** AJC588. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **cultivar:** AKSENGERSKY. **collected:** May 16, 1989. **collector id:** AJC588. **remarks:** Wide-spike, local type. Seed increased USDA-ARS, Logan, Utah. Nursery MA-81-41--50 1990. Perennial. Cultivar. Seed.

PI 547324 to 547325. *Agropyron* hybrid POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547324 **donor id:** AJC590. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **pedigree:** Fairway (A. cristatum ssp. pectinaatum-2x)/Krasnokutsky #4 (A. cristatum-2x). **collected:** May 16, 1989. **collector id:** AJC590. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-82-11--15 1990. Perennial. Cultivated. Seed.

PI 547325 **donor id:** AJC591. **origin:** USSR. **origin institute:** VIR, 44 Herzen Street, Leningrad. **cultivar:** PROGRESS 85. **pedigree:** A. cristatum (hexaploid)/A. cristatum ssp. tarbagaticum (A. puberulum hexiploid). **collected:** May 16, 1989. **collector id:** AJC591. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-82-21--25 1990. Perennial. Cultivar. Seed.

PI 547326. *Elytrigia elongata* (Host) Nevski POACEAE Tall wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: Jarvie-15-4. **origin:** France. **collected:** September 1988. **collector id:** Jarvie-15-4. **locality:** Palauaf Des Flotf, road from Montpellier to Ceanon on D-62, 1.8km E of Palaif at sea level. Growing on canal bank along salt marsh. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-3-55-69 1990. **received as:** *Thinopyrum elongatum*. Wild. Seed.

PI 547327 to 547330. *Elytrigia juncea* (L.) Nevski POACEAE Wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547327 **donor id:** D-3673. **origin:** France. **collected:** September 1988. **collector id:** D-3673. **other id:** BRG-88 #20. **locality:** Mediterranean coast of France. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nurseru MA-81-41--50. 1990. **received as:** *Thinopyrum junceum*. Wild. Seed.

PI 547327 to 547330-continued

PI 547328 **donor id:** D-3675. **origin:** France. **collected:** September 1988. **collector id:** D-3675. **other id:** BRG-88 #25. **locality:** Mediterranean coast of France. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nurseru MB-7-1--10. 1990. **received as:** *Thinopyrum junceum*. Wild. Seed.

PI 547329 **donor id:** D-3677. **origin:** France. **collected:** September 1988. **collector id:** D-3677. **other id:** BRG-88 #40. **locality:** Mediterranean coast of France. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nurseru MA-8-1--10. 1990. **received as:** *Thinopyrum junceum*. Wild. Seed.

PI 547330 **donor id:** D-3678. **origin:** France. **collected:** September 1988. **collector id:** D-3678. **other id:** BRG-88 #45. **locality:** Mediterranean coast of France. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nurseru MA-9-71--80. 1990. **received as:** *Thinopyrum junceum*. Wild. Seed.

PI 547331. *Leymus ambiguus* (Vasey & Scribner) Dewey POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3300. **origin:** United States. **collected:** August 08, 1983. **collector id:** D-3300. **locality:** N. Cheyenne Canyon, 6.4km S. Manitou Springs at mouth of canyon and slopes, Teller County. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nurseru MB-136--36--55 1990. Wild. Seed.

PI 547332 to 547338. *Elytrigia intermedia* (Host) Nevski POACEAE
Intermediate wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547332 **donor id:** TK-670-1. **origin:** Turkey. **collected:** 1984. **collector id:** TK-670-1. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-48-31--40 1990. **received as:** *Thinopyrum intermedium*. Wild. Seed.

PI 547333 **donor id:** D-2773. **origin:** China. **origin institute:** Gansu Grassland Ecological Institute, Lanzhou. **collected:** 1981. **collector id:** D-2773. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery R-24-31--40. 1990. **received as:** *Thinopyrum intermedium*. Wild. Seed.

PI 547332 to 547338-continued

- PI 547334 **donor id:** D-3209. **origin:** Poland. **origin institute:** University of Wroclaw, Wroclaw. **collected:** 1983. **collector id:** D-3209. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery R-24-41--50 1990. **received as:** *Thinopyrum intermedium*. Wild. Seed.
- PI 547335 **donor id:** D-3215. **origin:** Poland. **collected:** 1983. **collector id:** D-3215. **locality:** Sudety Mountains. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery R-24-51-60. 1990. **received as:** *Thinopyrum intermedium*. Wild. Seed.
- PI 547336 **donor id:** D-3681. **origin:** France. **collected:** September 1988. **collector id:** D-3681. **other id:** BRG-88 #58. **locality:** Mediterranean coast of France. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-7-16--25. 1990. **received as:** *Thinopyrum intermedium*. Wild. Seed.
- PI 547337 **donor id:** D-3684. **origin:** France. **collected:** September 1988. **collector id:** D-3684. **other id:** BRG-88 #55. **locality:** Mediterranean coast of France. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-7-26--35 1990. **received as:** *Thinopyrum intermedium*. Wild. Seed.
- PI 547338 **donor id:** D-3686. **origin:** France. **collected:** September 1988. **collector id:** D-3686. **other id:** BRG-88 #61. **locality:** Mediterranean coast of France. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-7-46--55 1990. **received as:** *Thinopyrum intermedium*. Wild. Seed.

PI 547339 to 547340. *Elytrigia repens* (L.) Nevski POACEAE Quackgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

- PI 547339 **donor id:** D-2621. **origin:** China. **collected:** August 08, 1980. **collector id:** D-2621. **locality:** Roadside, 97km W of Urumqi toward Stone River City, Xinjiang Province. **elevation:** 550m. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery R-4-31--40. 1990. Wild. Seed.
- PI 547340 **donor id:** D-3693. **origin:** China. **collected:** September 24, 1988. **collector id:** D-3693. **locality:** Tian Shan Mountains, S of Urumqi, Xinjiang province. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-11-31--40 1990. Wild. Seed.

PI 547341. *Hordeum brachyantherum* Nevski POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-2851. **origin:** United States. **collected:** July 15, 1982. **collector id:** D-2851. **locality:** South entrance to Washoe Valley. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery C-58-36--40. 1990. Wild. Seed.

PI 547342 to 547343. *Leymus cinereus* (Lams.-Scribn. & Merr.) A. Love
POACEAE Basin wildrye

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547342 **donor id:** D-3607. **origin:** United States. **collected:** June 27, 1987. **collector id:** D-3607. **locality:** Roadside at mileage marker 6 from Nevada state line toward Park Valley. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-57-76--85. 1990. Wild. Seed.

PI 547343 **donor id:** KJ-49. **origin:** United States. **collected:** August 1987. **collector id:** KJ-49. **locality:** Next to river, 68km E of Rangely, on Hwy 64 toward Meeker. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-19-1--10. 1990. Wild. Seed.

PI 547344 to 547345. *Elytrigia nodosa* (Nevski) Nevski POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547344 **donor id:** TK-669-1. **origin:** Turkey. **collected:** 1984. **collector id:** TK-669-1. **remarks:** Seed increased USDA-ARS, Logan, Utah. Nursery MA-49-11--20 1990. **received as:** *Thinopyrum nodosum*. Wild. Seed.

PI 547345 **donor id:** D-3486. **origin:** USSR. **collected:** September 11, 1984. **collector id:** D-3486. **other id:** AL-78/84. **locality:** Near Hotel Yalta, Yalta, Crimea. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery C-321-1--10 1990. **received as:** *Thinopyrum nodosum*. Wild. Seed.

PI 547346 to 547351. *Agropyron cristatum* (L.) Gaertn. POACEAE Fairway
crested wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State
University, USDA-ARS, Logan, Utah, United States. Received January
22, 1991.

- PI 547346 **donor id:** D-2779. **origin:** China. **historical origin:**
China. **origin institute:** Inner Mongolian College of
Agriculture, Nei Monggol. **collected:** 1981. **collector**
id: D-2779. **remarks:** Seed increased USDA-ARS, Logan,
Utah Nursery C-8-41--45 1990. Wild. Seed.
- PI 547347 **donor id:** D-3199. **origin:** China. **collected:** August 11,
1983. **collector id:** D-3199. **locality:** Near South
Mountain area, about 70km SW of Urumqi, Xinjiang
province. **elevation:** 2000m. **remarks:** Seed increased
USDA-ARS, Logan, Utah Nursery C-8-56--60 1990. Wild.
Seed.
- PI 547348 **donor id:** D-3593. **origin:** China. **collected:** August 21,
1987. **collector id:** D-3593. **locality:** 15km W of
Hohehot, toward Baotou, Nei Mongol. **remarks:** Seed
increased USDA-ARS, Logan, Utah Nursery MA-55-1--10 1990.
Wild. Seed.
- PI 547349 **donor id:** D-3594. **origin:** China. **collected:** August 23,
1987. **collector id:** D-3594. **locality:** Near Siziwang,
Nei Mongol. **remarks:** Seed increased USDA-ARS, Logan,
Utah. Nursery MA-55-21--30 1990. Wild. Seed.
- PI 547350 **donor id:** D-3687. **origin:** France. **collected:** September
1988. **collector id:** D-3687. **other id:** Jarvie 56/1-3.
locality: Mediterranean coast of France. **remarks:** Seed
increased USDA-ARS, Logan, Utah Nursery MA-11-1--10 1990.
Wild. Seed.
- PI 547351 **donor id:** D-3696. **origin:** France. **origin institute:**
Sta. des Genetique and Amelioration, Route de Saint-Cyr,
78000 Versailles. **collected:** October 22, 1988.
collector id: D-3696. **other id:** BRG-88 #56. **locality:**
Sisteron, French Alps. **remarks:** Seed increased USDA-ARS,
Logan, Utah. Nursery MA-12-82--85 1990. Wild. Seed.

PI 547352 to 547353. *Elymus dahuricus* Turcz. ex Griseb. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State
University, USDA-ARS, Logan, Utah, United States. Received January
22, 1991.

PI 547352 to 547353-continued

PI 547352 **donor id:** D-2792. **origin:** China. **collected:** 1981.
collector id: D-2792. **locality:** Northwestern China
provinces of Shanxi, Qinghai, and Xinjiang. **remarks:**
Seed increased USDA-ARS, Logan, Utah. Nursery C-40-61--65
1990. Wild. Seed.

PI 547353 **donor id:** D-3728. **origin:** China. **origin institute:**
Grassland Research Institute, CAAS, Hohehot. **collected:**
1989. **collector id:** D-3728. **locality:** Yellow River
Plateau. **remarks:** Seed increased USDA-ARS, Logan, Utah.
Nursery MA-13-41--50 1990. Wild. Seed.

PI 547354 to 547357. *Leymus angustus* (Trin.) Pilg. POACEAE Altai
wildgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State
University, USDA-ARS, Logan, Utah, United States. Received January
22, 1991.

PI 547354 **donor id:** DT-3140. **origin:** China. **collector id:**
DT-3140. **locality:** Side canyon off the road to Tian
Lake, Xinjiang Province. **elevation:** 1750m. **remarks:**
Spikes narrow. Seed increased USDA-ARS, Logan, Utah.
Nursery R--6-51--60 1990. Wild. Seed.

PI 547355 **donor id:** D-3500. **origin:** China. **origin institute:**
College of Agr. and Animal Husbandry, Hohehot, Nei
Monggol. **collected:** 1985. **collector id:** D-3500.
remarks: Seed increased USDA-ARS, Logan, Utah Nursery
C-40-66--70 1990. Wild. Seed.

PI 547356 **donor id:** D-3695. **origin:** China. **collected:** September
27, 1988. **collector id:** D-3695. **locality:** Red Clay Well
sheep breeding station near Urumqi, Xinjiang province.
remarks: Seed increased USDA-ARS, Logan, Utah. Nursery
MA-11-51--55 1990. Wild. Seed.

PI 547357 **donor id:** D-3719. **origin:** China. **historical origin:**
China. **origin institute:** Grassland Research Institute,
CAAS, Hohehot, Nei Monggol. **collected:** 1989. **collector
id:** D-3719. **remarks:** Seed increased USDA-ARS, Logan,
Utah Nursery MA-13-21--30 1990. Wild. Seed.

PI 547358 to 547360. *Elymus canadensis* L. POACEAE Canada wildrye

Donated by: Jensen, K.B., Forage and Range Research, Utah State
University, USDA-ARS, Logan, Utah, United States. Received January
22, 1991.

PI 547358 to 547360-continued

PI 547358 **donor id:** KJ-55. **origin:** United States. **collected:** August 1987. **collector id:** KJ-55. **locality:** Hwy 14, 32km W of jct of Hwys 287 and 14, toward Walden. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-22-56--65 1990. Wild. Seed.

PI 547359 **donor id:** KJ-67. **origin:** United States. **collected:** August 1987. **collector id:** KJ-67. **locality:** 7.4km SW of Fremont County line on Hwy 115, toward Canston. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-22-71--80 1990. Wild. Seed.

PI 547360 **donor id:** D-3365. **origin:** United States. **collected:** August 08, 1983. **collector id:** D-3365. **locality:** Bottom of Cheyenne Canyon, 6.4km South Manitou Springs, Teller County. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery C-35-26--30 1990. Wild. Seed.

PI 547361. *Elytrigia batalinii* (Krasn.) Nevski POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3700. **origin:** USSR. **collected:** 1989. **collector id:** D-3700. **locality:** Central Tian Shan Mountains. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-16-16--25 1990. Wild. Seed.

PI 547362. *Elymus glaucus* Buckley POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3326. **origin:** United States. **collected:** August 07, 1983. **collector id:** D-3326. **locality:** Uncompahgre Primitive area 8km SW of Ouray, Ouray County. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery C-39-61--65 1990. Wild. Seed.

PI 547363. *Australopyrum retrofractum* (Vick.) A. Love POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547363-continued

donor id: D-3420. **origin:** Australia. **collected:** January 1984. **collector id:** D-3420. **locality:** Eastern Highlands, Mt. Cowangerong. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MB-139-1--35 1990. Wild. Seed.

PI 547364. *Elymus coreanus* Honda POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3562. **origin:** USSR. **origin institute:** Hortus Botanicus, Vladivostok. **origin institute id:** 690038. **collected:** 1986. **collector id:** D-3562. Wild. Seed.

PI 547365. *Elymus uralensis* (Nevski) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-2730. **origin:** USSR. **collected:** August 29, 1979. **collector id:** D-2730. **other id:** AL-72179. **locality:** Near Alma Ata, Kazakh SSR. **remarks:** Seed increased USDA-ARS, Logan, Utah 1990. Nursery C-46-51--55. **received as:** *Elymus uraalensis* ssp. *tianshanicus*. Wild. Seed.

PI 547366. *Elymus gmelinii* (Ledeb.) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3731. **origin:** China. **collected:** 1989. **collector id:** D-3731. **remarks:** Seed increased USDA-ARS, Logan, Utah 1990. Nursery MA-16-38--45. Wild. Seed.

PI 547367. *Hordeum parodii* Covas POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547367-continued

donor id: Casteler-668. **origin:** Argentina. **collected:** 1969. **collector id:** Casteler-668. **locality:** Buenos Aires Province. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery C-60-11--20 1990. Wild. Seed.

PI 547368 to 547369. *Elymus trachycaulus* (Link) Gould ex Shinn.
POACEAE Slender wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547368 **donor id:** D-3635. **origin:** United States. **collected:** August 13, 1985. **collector id:** D-3635. **locality:** San Miguel River, San Miguel (T44N, R12W, Sec. 24). **elevation:** 2128m. **remarks:** Rhizomes present. Seed increased USDA-ARS, Logan, Utah Nursery MA-21-41--50 1990. Wild. Seed.

PI 547369 **donor id:** D-3637. **origin:** United States. **collected:** July 31, 1985. **collector id:** D-3637. **locality:** Basin Creek, Sawtooth National Recreational Area, Custer County. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-21-51--60 1990. Wild. Seed.

PI 547370. *Agropyron fragile* (Roth) Candargy POACEAE Siberian wheatgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3221. **origin:** Poland. **origin institute:** University of Wroclaw, Wroclaw. **collected:** 1983. **collector id:** D-3221. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery C-11-36--40 1990. Wild. Seed.

PI 547371. *Elymus tschimganicus* (Drobov) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3715. **origin:** USSR. **collected:** 1988. **collector id:** D-3715. **locality:** Central Tian Shan Mountains, Karzig SSR. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-14-71--82 1990. Wild. Seed.

PI 547372. *Elymus transhyrcanus* (Nevski) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3248. **origin:** Poland. **origin institute:** University of Wroclaw, Wroclaw. **collected:** 1983.
collector id: D-3248. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery C-53-56--60 1990. Wild. Seed.

PI 547373. *Elymus trachycaulus* subsp. *subsecundus* (Link) Gould POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3643. **origin:** United States. **collected:** August 16, 1988. **collector id:** D-3643. **locality:** Kensington. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA 12-21--30 1990. **received as:** E. *subsecundus*. Wild. Seed.

PI 547374. *Elytrigia geniculata* subsp. *pruinifera* (Nevski) Tzvelev
POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3601. **origin:** USSR. **collected:** 1987.
collector id: D-3601. **locality:** Botanical garden #582, Sverdlosk. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MB-131-1--30 1990. **received as:** *Elytrigia pruinifera*. Wild. Seed.

PI 547375. *Elymus mutabilis* (Drobov) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-2684. **origin:** China. **collected:** August 14, 1980. **collector id:** D-2684. **locality:** Tian Lake, E of Urumqi, Xinjiang province. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery C-45-16-20 1990. Wild. Seed.

PI 547376. *Elymus caninus* (L.) L. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3520. **origin:** Pakistan. **historical origin:** Sweden. **origin institute:** Swedish Univ. of Agricultural Sciences, Dept. of Crop Genetics, Svalov. **origin institute id:** S-26800. **collected:** 1985. **collector id:** D-3520. **locality:** NWFP, Swat, Mohodan. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery C-39-21--24 1990. Wild. Seed.

PI 547377. *Elymus lanceolatus* (Scribner & J. G. Smith) Gould POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3632. **origin:** Canada. **collected:** July 13, 1985. **collector id:** D-3632. **locality:** MacKenzie crossing, Red Deer River, Alberta Canada Bluffs, west side of river, Hwy 590, E of Elnore. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-24-11--20 1990. Wild. Seed.

PI 547378. *Hordelymus europaeus* (L.) C. Harz POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3735D. **origin:** Denmark. **collected:** October 13, 1988. **collector id:** D-3735D. **locality:** Beech woods. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-7-76--85 1990. Wild. Seed.

PI 547379. *Elymus pendulinus* (Nevski) Tzvelev POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: AJC-254. **origin:** USSR. **origin institute:** Central Siberian Botanical Gardens, Academy of Sciences, USSR Siberian Division, Novosibirsk. **collected:** August 1988. **collector id:** AJC-254. **locality:** Fl near Vladyvostok. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-68-71--85 1990. Wild. Seed.

PI 547380 to 547382. *Dactylis glomerata* L. POACEAE Orchardgrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547380 **donor id:** KJ-92. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-92. **other id:** Tavassoli #156. **locality:** Station of Damavand, Homand-e Ab-e Sard, Tehran. **elevation:** 680m. Wild. Seed.

PI 547381 **donor id:** KJ-117. **origin:** Iran. **origin institute:** Res. Institute of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-117. **other id:** Tavassoli #220. **elevation:** 1350m. Wild. Seed.

PI 547382 **donor id:** KJ-132. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-132. **other id:** Tavassoli # 220. Wild. Seed.

PI 547383 to 547384. *Bromus tomentosus* Trin. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547383 **donor id:** KJ-113. **origin:** Iran. **origin institute:** Res. Institute of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-113. **locality:** Elburg. **elevation:** 1350m. **received as:** *Bromus pericus*. Wild. Seed.

PI 547384 **donor id:** KJ-133. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-133. **other id:** Tavassoli #10118. **locality:** Elberg. **received as:** *Bromus persicus*. Wild. Seed.

PI 547385 to 547386. *Bromus tomentellus* Boiss. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547385 to 547386-continued

PI 547385 **donor id:** KJ-114. **origin:** Iran. **origin institute:** Res. Institute of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-114. **other id:** Tavassoli #10001. **locality:** Daran, Isfhab. **elevation:** 1350m. Wild. Seed.

PI 547386 **donor id:** KJ-134. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-134. **other id:** Tavassoli #10001. **locality:** Daran. Wild. Seed.

PI 547387. *Phalaris arundinacea* L. POACEAE Reed canarygrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: KJ-98. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-98. **other id:** Tavassoli #176. **locality:** Chalus Road, Gachsar, Tehran. **elevation:** 1450m. Wild. Seed.

PI 547388. *Poa bulbosa* L. POACEAE Bulbous bluegrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: KJ-97. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-97. **other id:** Tavassoli #178. **locality:** Chalus Road, Gachsar, Tehran. **elevation:** 1450m. Wild. Seed.

PI 547389. *Stipa barbata* Desf. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: KJ-100. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-100. **other id:** Tavassoli #182. **locality:** Neck Rokh Esfahan. **elevation:** 2250m. Wild. Seed.

PI 547390. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: KJ-102. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-102. **other id:** Tavassoli #169. **locality:** Karaj. **elevation:** 1300m. Wild. Seed.

PI 547391. *Festuca rubra* L. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: KJ-103. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-103. **other id:** Tavassoli #162. **locality:** Karaj. **elevation:** 1300m. Wild. Seed.

PI 547392 to 547393. *Phalaris aquatica* L. POACEAE Bulbous canarygrass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547392 **donor id:** KJ-104. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-104. **other id:** Tavassoli #177. **locality:** Karaj. **elevation:** 1350m. **received as:** *Phalaris tuberosa*. Wild. Seed.

PI 547393 **donor id:** KJ-115. **origin:** Iran. **origin institute:** Res. Inst. of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-115. **other id:** Tavassoli #1207. **received as:** *Phalaris tuberosa*. Wild. Seed.

PI 547394. *Elymus nutans* Griseb. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547394-continued

donor id: D-3726. **origin:** China. **historical origin:** China. **origin institute:** Grassland Research Institute, CAAS, Hohehot, Nei Monggol. **collected:** 1989. **collector id:** D-3726. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-13-11--20 1990. Wild. Seed.

PI 547395. *Hordeum brachyantherum* Nevski POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: D-3644. **origin:** United States. **collected:** 1988. **collector id:** D-3644. **locality:** Baker Ranch, Silver Creek, Baker. **remarks:** Seed increased USDA-ARS, Logan, Utah Nursery MA-12-41--50 1990. Wild. Seed.

PI 547396 to 547397. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547396 **donor id:** KJ-105. **origin:** Iran. **origin institute:** Res. Institute of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-105. **other id:** Tavassoli #159. **locality:** Karaj. **elevation:** 1350m. Wild. Seed.

PI 547397 **donor id:** KJ-111. **origin:** Iran. **origin institute:** Res. Institute of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-111. **other id:** Tavassoli #10131. Wild. Seed.

PI 547398 to 547399. *Festuca ovina* L. POACEAE Sheep fescue

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

PI 547398 **donor id:** KJ-99. **origin:** Iran. **origin institute:** Res. Institute of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-99. **other id:** Tavassoli #160. **locality:** Station of Damavand, Homand-2, Ab-3, Tehran. **elevation:** 680m. Wild. Seed.

PI 547398 to 547399-continued

PI 547399 **donor id:** KJ-112. **origin:** Iran. **origin institute:** Res. Institute of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-112. **other id:** Tavassoli #10131. **locality:** Semiron. Wild. Seed.

PI 547400. *Bromus inermis* Leyss. POACEAE Smooth brome grass

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: KJ-116. **origin:** Iran. **origin institute:** Res. Institute of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-116. **other id:** Tavassoli #1048. Wild. Seed.

PI 547401. *Stipa lagascae* Roem. & Schult. POACEAE

Donated by: Jensen, K.B., Forage and Range Research, Utah State University, USDA-ARS, Logan, Utah, United States. Received January 22, 1991.

donor id: KJ-118. **origin:** Iran. **origin institute:** Res. Institute of Forests and Rangelands, Ministry of Agriculture. **collected:** November 1990. **collector id:** KJ-118. **other id:** Tavassoli #10063. **locality:** SE Zanjan. **elevation:** 1350m. Wild. Seed.

PI 547402. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1955.

origin: United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L58-231. **pedigree:** Lincoln(2) x Richland. **other id:** Clark-L1. **other id:** Clark. Annual. Genetic Material. Seed.

PI 547403 to 547450. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1972.

PI 547403 to 547450-continued

- PI 547403 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L60-246. **pedigree:** (Clark(7) x CNS)rxp x (Clark(6) x Blackhawk)Rps1. **other id:** Clark 63. **remarks:** Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547404 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L61-4180. **pedigree:** Clark(8) x CNS. **other id:** L8. **remarks:** rxp. Annual. Genetic Material. Seed.
- PI 547405 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L61-4222. **pedigree:** Clark(8) x Blackhawk. **other id:** L7. **remarks:** Rps1. Annual. Genetic Material. Seed.
- PI 547406 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L61-5448. **pedigree:** L8,rxp x L7,Rps1. **other id:** L6. **remarks:** Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547407 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1027. **pedigree:** Medium Green x Clark(7). **remarks:** cyt-G. Annual. Genetic Material. Seed.
- PI 547408 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1058. **pedigree:** Clark(6) x T201. **remarks:** I. Annual. Genetic Material. Seed.
- PI 547409 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1251. **pedigree:** Clark(6) x T117. **remarks:** Dt2. Annual. Genetic Material. Seed.
- PI 547410 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1377. **pedigree:** Clark(6) x T145. **remarks:** Pl r. Annual. Genetic Material. Seed.
- PI 547411 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1383. **pedigree:** Clark(6) x T145. **remarks:** r. Annual. Genetic Material. Seed.
- PI 547412 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1385. **pedigree:** Clark(6) x T145. **remarks:** Pl. Annual. Genetic Material. Seed.

PI 547403 to 547450-continued

- PI 547413 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1579. **pedigree:** Clark(6) x T204. **remarks:** ln. Annual. Genetic Material. Seed.
- PI 547414 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1615. **pedigree:** Clark(6) x T204. **remarks:** lo. Annual. Genetic Material. Seed.
- PI 547415 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1686. **pedigree:** Clark(6) x PI 80837. **remarks:** Pdl. Annual. Genetic Material. Seed.
- PI 547416 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1932. **pedigree:** Clark(6) x PI 86024. **remarks:** e2. Annual. Genetic Material. Seed.
- PI 547417 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-1677. **pedigree:** Clark(6) x Chief. **other id:** L9. **remarks:** Np. Annual. Genetic Material. Seed.
- PI 547418 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-1792. **pedigree:** Clark(6) x T138. **remarks:** y7 y8. Annual. Genetic Material. Seed.
- PI 547419 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-1889. **pedigree:** Clark(6) x T201. **other id:** L13. **remarks:** rjl. Annual. Genetic Material. Seed.
- PI 547420 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-2373. **pedigree:** Clark(6) x T139. **remarks:** wl. Annual. Genetic Material. Seed.
- PI 547421 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-2435. **pedigree:** Clark(6) x PI 84987. **remarks:** pc. Annual. Genetic Material. Seed.
- PI 547422 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-2999. **pedigree:** Clark(6) x PI 91160. **remarks:** Ps. Annual. Genetic Material. Seed.

PI 547403 to 547450-continued

- PI 547423 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-3117. **pedigree:** Clark(6) x PI 86024. **remarks:** e2. Annual. Genetic Material. Seed.
- PI 547424 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-3297. **pedigree:** Clark(6) x PI 84987. **remarks:** dtl. Annual. Genetic Material. Seed.
- PI 547425 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-1344. **pedigree:** Clark(6) x PI 86024. **remarks:** Lfl. Annual. Genetic Material. Seed.
- PI 547426 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-2545. **pedigree:** Clark(6) x Columbia. **remarks:** G d1 d2. Annual. Genetic Material. Seed.
- PI 547427 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-2584. **pedigree:** L62-1027, cyt-G x (Clark(6) x T139)y3. **remarks:** cyt-G y3. Annual. Genetic Material. Seed.
- PI 547428 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-763. **pedigree:** Clark(6) x PI 83945-4. **remarks:** f. Annual. Genetic Material. Seed.
- PI 547429 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-778. **pedigree:** Clark(6) x PI 86024. **other id:** L64-1477. **remarks:** dtl e2. Annual. Genetic Material. Seed.
- PI 547430 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-1255. **pedigree:** Clark(6) x PI 54619. **other id:** L19. **remarks:** fe. Annual. Genetic Material. Seed.
- PI 547431 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-3366. **pedigree:** Clark(6) x T175. **remarks:** El t. Annual. Genetic Material. Seed.
- PI 547432 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-432. **pedigree:** L62-1932, e2 x L65-3366, El t. **remarks:** El t e2. Annual. Genetic Material. Seed.

PI 547403 to 547450-continued

- PI 547433 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-531. **pedigree:** L64-1437,dt1 e2 x L65-3366,El t. **other id:** L66-503. **remarks:** dt1 El t e2. Annual. Genetic Material. Seed.
- PI 547434 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-546. **pedigree:** L64-1437,dt1 e2 x L65-3366,El t. **remarks:** dt1 El t. Annual. Genetic Material. Seed.
- PI 547435 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-483. **pedigree:** Clark(6) x Higan. **remarks:** t. Annual. Genetic Material. Seed.
- PI 547436 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-1474. **pedigree:** Clark(6) x T175. **remarks:** El. Annual. Genetic Material. Seed.
- PI 547437 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3232. **pedigree:** L62-1932,e2 x L62-1251,Dt2. **remarks:** Dt2 e2. Annual. Genetic Material. Seed.
- PI 547438 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3469. **pedigree:** mutation in Clarklark found in 1954 at Urbana. **remarks:** i. Annual. Genetic Material. Seed.
- PI 547439 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3479. **pedigree:** mutation in Clark from Ames, IA in 1956. **remarks:** k1. Annual. Genetic Material. Seed.
- PI 547440 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-1013. **pedigree:** Clark(6) x Higan. **remarks:** 12. Annual. Genetic Material. Seed.
- PI 547441 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-1562. **pedigree:** L6(6) x Seneca. **remarks:** L1 Rps1 rxp. Annual. Genetic Material. Seed.

PI 547403 to 547450-continued

- PI 547442 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4544. **pedigree:** L67-3469,i(6) x Sooty. **remarks:** B1 i. Annual. Genetic Material. Seed.
- PI 547443 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4659. **pedigree:** Clark(6) x Columbia. **remarks:** G dl. Annual. Genetic Material. Seed.
- PI 547444 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4662. **pedigree:** Clark(6) x Columbia. **remarks:** d2. Annual. Genetic Material. Seed.
- PI 547445 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4663. **pedigree:** Clark(6) x Columbia. **other id:** L67-1000. **remarks:** dl d2. Annual. Genetic Material. Seed.
- PI 547446 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4755. **pedigree:** L6(6) x T135. **remarks:** y9 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547447 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-5338. **pedigree:** L12(6) x Hawkeye. **remarks:** Im I r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547448 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-5343. **pedigree:** L12(6) x Hawkeye. **remarks:** Im I r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547449 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4049. **pedigree:** L12(6) x T31. **remarks:** p2 I r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547450 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4204. **pedigree:** L66-14,i Rps1 rxp(6) x Black Eyebrow. **other id:** L70-4209. **remarks:** i-k Rps1 rxp. Annual. Genetic Material. Seed.

PI 547451 to 547587. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1975.

- PI 547451 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-1568. **pedigree:** Clark(6) x T204. **remarks:** ln t. Annual. Genetic Material. Seed.
- PI 547452 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-2346. **pedigree:** Clark(6) x T139. **remarks:** y3. Annual. Genetic Material. Seed.
- PI 547453 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-2404. **pedigree:** Clark(6) x PI 84987. **remarks:** e3. Annual. Genetic Material. Seed.
- PI 547454 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-3016. **pedigree:** Clark(6) x PI 86024. **remarks:** dt1. Annual. Genetic Material. Seed.
- PI 547455 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-3022. **pedigree:** Clark(6) x PI 86024. **remarks:** dt1 Lf1. Annual. Genetic Material. Seed.
- PI 547456 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-314. **pedigree:** Clark(6) x Higan. **remarks:** Ps-s. Annual. Genetic Material. Seed.
- PI 547457 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-326. **pedigree:** Clark(6) x Higan. **remarks:** pal Ps-s. Annual. Genetic Material. Seed.
- PI 547458 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-1074. **pedigree:** (Clark(6) x T117)Dt2 x (Clark(6) x T204)ln. **remarks:** Dt2 ln. Annual. Genetic Material. Seed.
- PI 547459 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-1081. **pedigree:** (Clark(6) x T117)Dt2 x (Clark(6) x PI 86024)Lf1. **remarks:** Dt2 Lf1. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547460 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-1083. **pedigree:** (Clark(6) x PI 86024)Lf1 x (Clark(6) x T204)ln. **remarks:** Lf1 ln. Annual. Genetic Material. Seed.
- PI 547461 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-1316. **pedigree:** Clark(6) x PI 86024. **remarks:** e2 Lf1. Annual. Genetic Material. Seed.
- PI 547462 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-1731. **pedigree:** Clark(6) x Chief. **remarks:** Np s-t. Annual. Genetic Material. Seed.
- PI 547463 **donor id:** L11. **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-2191. **pedigree:** (Clark(6) x T201)I x (Clark(6) x T145)r. **other id:** GP-4. **source:** Crop Sci. 9(3):397 1969. **group:** CSR-SOYBEAN. **remarks:** I r. Annual. Genetic Material. Seed.
- PI 547464 **donor id:** L12. **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-2244. **pedigree:** L6 x L11,I r. **other id:** GP-5. **source:** Crop Sci. 9(3):397 1969. **group:** CSR-SOYBEAN. **remarks:** I r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547465 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-2281. **pedigree:** (Clark(6) x T139)wl x (Clark(6) x T204)t. **remarks:** t wl. Annual. Genetic Material. Seed.
- PI 547466 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-2709. **pedigree:** L6 x (Clark(5) x Chief). **remarks:** Np Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547467 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-44. **pedigree:** (Clark(6) x PI 84987)pc x (Clark(6) x PI 80837)Pdl. **remarks:** pc Pdl. Annual. Genetic Material. Seed.
- PI 547468 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-52. **pedigree:** (Clark(6) x PI 84987)pc x (Clark(6) x PI 91160)Ps. **remarks:** pc Ps. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547469 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-90. **pedigree:** (Clark(6) x PI 80837)Pdl x (Clark(6) x PI 91160)Ps. **remarks:** Pdl Ps. Annual. Genetic Material. Seed.
- PI 547470 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-600. **pedigree:** Clark(6) x T176. **remarks:** lwl t. Annual. Genetic Material. Seed.
- PI 547471 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-701. **pedigree:** Clark(6) x PI 196166. **remarks:** lbl. Annual. Genetic Material. Seed.
- PI 547472 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-774. **pedigree:** Clark(6) x PI 86024. **remarks:** dtl e2 Lfl. Annual. Genetic Material. Seed.
- PI 547473 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-1914. **pedigree:** L6 x L11,I r. **remarks:** r Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547474 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-14. **pedigree:** mutation in Clark 63 received in 1965 from Portageville, MO. **remarks:** i Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547475 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-17. **pedigree:** i-mutation in L11,I r found in 1965 at Urbana. **remarks:** i r. Annual. Genetic Material. Seed.
- PI 547476 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-180. **pedigree:** PI 101404A x Clark(6). **remarks:** Rpsl. Annual. Genetic Material. Seed.
- PI 547477 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-183. **pedigree:** PI 101404A x Clark(6). **remarks:** wild cytoplasm. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547478 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-228. **pedigree:** L6(6) x Sooty. **remarks:** td Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547479 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-260. **pedigree:** Clark(6) x PI 91160. **remarks:** td. Annual. Genetic Material. Seed.
- PI 547480 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-495. **pedigree:** Clark(6) x Higan. **remarks:** pal pa2 Ps-s. Annual. Genetic Material. Seed.
- PI 547481 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-497. **pedigree:** Clark(6) x Higan. **remarks:** pal pa2. Annual. Genetic Material. Seed.
- PI 547482 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-509. **pedigree:** Clark(6) x Higan. **remarks:** pal pa2 S. Annual. Genetic Material. Seed.
- PI 547483 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-592. **pedigree:** Clark(6) x Higan. **remarks:** S. Annual. Genetic Material. Seed.
- PI 547484 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-1189. **pedigree:** PI 101404B x Clark(6). **remarks:** wild cytoplasm. Annual. Genetic Material. Seed.
- PI 547485 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-1749. **pedigree:** Clark(6) x T176. **remarks:** lwl. Annual. Genetic Material. Seed.
- PI 547486 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3124. **pedigree:** (Clark(6) x PI 84987)pc x L62-1385,Pl. **remarks:** Pl pc. Annual. Genetic Material. Seed.
- PI 547487 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3127. **pedigree:** L62-1385,Pl x (Clark(6) x PI 91160)Ps. **remarks:** Pl Ps. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547488 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3207. **pedigree:** (Clark(6) x Chief)s-t x L63-3297,dt1. **remarks:** dt1 s-t. Annual. Genetic Material. Seed.
- PI 547489 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3224. **pedigree:** (Clark(6) x Chief)s-t x L62-1251,Dt2. **remarks:** Dt2 s-t. Annual. Genetic Material. Seed.
- PI 547490 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3243. **pedigree:** L62-1932,e2 x [L6 x (Clark(5) x Chief)]s-t. **other id:** L67-3246. **remarks:** e2 s-t. Annual. Genetic Material. Seed.
- PI 547491 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3472. **pedigree:** mutation in Clark 63 found in 1965 Illinois foundation seeds. **remarks:** i Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547492 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3480. **pedigree:** mutation in 1965 Illinois foundation seeds of Clark 63. **remarks:** k1 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547493 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3483. **pedigree:** mutation in x-rayed Clark at Columbia, MO. **other id:** S57-3491. **remarks:** k2. Annual. Genetic Material. Seed.
- PI 547494 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3484. **pedigree:** L66-14,i Rps1 rxp x L12,I r Rps1 rxp. **remarks:** i r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547495 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3770. **pedigree:** L62-1385,P1 x (Clark(6) x PI 80837)Pd1. **remarks:** P1 Pd1. Annual. Genetic Material. Seed.
- PI 547496 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-1017. **pedigree:** Clark(6) x Higan. **remarks:** 12 t. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547497 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-1306. **pedigree:** PI 65388 x Clark(6). **remarks:** semi-wild cytoplasm. Annual. Genetic Material. Seed.
- PI 547498 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-1774. **pedigree:** L6(6) x (Laredo x Harosoy). **remarks:** w4 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547499 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-1864. **pedigree:** (Clark(6) x Higan)Ps-s x L63-2435,pc. **remarks:** pc Ps-s. Annual. Genetic Material. Seed.
- PI 547500 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-1874. **pedigree:** (Clark(6) x Higan)Ps-s x (Clark(6) x PI 80837)Pd1. **remarks:** Pd1 Ps-s. Annual. Genetic Material. Seed.
- PI 547501 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-2040. **pedigree:** L64-1074,Dt2 ln x (Clark(6) x PI 86024)Lfl. **remarks:** Dt2 Lfl ln. Annual. Genetic Material. Seed.
- PI 547502 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-2045. **pedigree:** L62-1058,I x (Clark(6) x T145)Pl r. **remarks:** I Pl r. Annual. Genetic Material. Seed.
- PI 547503 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-2056. **pedigree:** L12 x L64-2281 sib, t wl. **remarks:** I r t wl Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547504 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-2061. **pedigree:** L12 x L64-2281 sib, t wl. **remarks:** r wl Rps1 rxp. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547505 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-2063. **pedigree:** L12 x L64-2281 sib, t wl.
remarks: r t wl Rps1 rxp. Annual. Genetic Material.
Seed.
- PI 547506 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-2073. **pedigree:** L67-3469,i x L64-2281 sib,
t wl. **remarks:** i t. Annual. Genetic Material. Seed.
- PI 547507 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-2077. **pedigree:** L67-3469,i x L64-2281 sib,
t wl. **remarks:** i wl. Annual. Genetic Material. Seed.
- PI 547508 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-2082. **pedigree:** L67-3479,kl x L64-2281
sib, t wl. **remarks:** kl tl. Annual. Genetic Material.
Seed.
- PI 547509 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-2085. **pedigree:** L67-3479,kl x L64-2281
sib, t wl. **remarks:** kl wl. Annual. Genetic Material.
Seed.
- PI 547510 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-2093. **pedigree:** L67-3479,kl x L64-2281
sib, t wl. **remarks:** kl t wl. Annual. Genetic Material.
Seed.
- PI 547511 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-2105. **pedigree:** L67-3479,kl x L12,I r Rps1
rxp. **remarks:** I kl r. Annual. Genetic Material. Seed.
- PI 547512 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-2106. **pedigree:** L67-3479,kl x L12,I r Rps1
rxp. **remarks:** kl r. Annual. Genetic Material. Seed.
- PI 547513 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-2130. **pedigree:** L67-3479,kl x L12,I r Rps1
rxp. **remarks:** I kl. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547514 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4607. **pedigree:** L66-14,i Rps1 rxp(6) x Black Eyebrow. **remarks:** i k Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547515 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4667. **pedigree:** Clark(6) x Columbia. **other id:** L69-4666. **remarks:** G d2. Annual. Genetic Material. Seed.
- PI 547516 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4775. **pedigree:** L6(6) x Seneca. **remarks:** td wl Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547517 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4776. **pedigree:** L6(6) x Seneca. **remarks:** wl Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547518 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4814. **pedigree:** Clark(6) x T204. **remarks:** 12 wl. Annual. Genetic Material. Seed.
- PI 547519 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-5366. **pedigree:** L12(6) x Hawkeye. **remarks:** Im r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547520 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4170. **pedigree:** L12 x (Clark 63(5) x Kanrich). **remarks:** Rpm Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547521 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4190. **pedigree:** L12 x (Clark 63(5) x Kanrich). **other id:** L70-4191. **remarks:** I r Rpm Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547522 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4313. **pedigree:** (Clark(6) x T204)ln x L62-1615,lo. **remarks:** ln lo. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547523 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4404. **pedigree:** L6(6) x Grant. **remarks:** td Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547524 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4422. **pedigree:** L6(6) x (Laredo x Harosoy). **remarks:** W3 w4 Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547525 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4478. **pedigree:** L12 x L66-503,dt1 El t e2. **remarks:** dt1 El t e2 Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547526 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4497. **pedigree:** L67-3469,i x L64-2281 sib, t wl. **remarks:** i t wl. Annual. Genetic Material. Seed.
- PI 547527 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4543. **pedigree:** L12(6) x Hawkeye. **remarks:** I r t Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547528 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4558. **pedigree:** Clark(6) x Higan. **remarks:** pa2. Annual. Genetic Material. Seed.
- PI 547529 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4566. **pedigree:** Clark(6) x Higan. **remarks:** pa2 Ps-s. Annual. Genetic Material. Seed.
- PI 547530 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4611. **pedigree:** L12 x L62-1615,lo. **remarks:** lo I r Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547531 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4629. **pedigree:** L12 x L62-1579,ln. **remarks:** ln Rpsl rxp. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547532 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-149. **pedigree:** L12 x L63-2999,Ps. **remarks:** Ps Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547533 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-920. **pedigree:** L63-3117,e2 x L63-2404,e3. **remarks:** e2 e3. Annual. Genetic Material. Seed.
- PI 547534 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-1284. **pedigree:** L67-592,S x L62-1251,Dt2. **remarks:** Dt2 S. Annual. Genetic Material. Seed.
- PI 547535 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-1363. **pedigree:** L62-1251,Dt2 x L66-432,El t e2. **remarks:** Dt2 El t e2. Annual. Genetic Material. Seed.
- PI 547536 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-1374. **pedigree:** L67-592,S x L66-432,El t e2. **remarks:** e2 S. Annual. Genetic Material. Seed.
- PI 547537 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-1378. **pedigree:** L67-592,S x L66-432,El t e2. **remarks:** El t e2 S. Annual. Genetic Material. Seed.
- PI 547538 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-1388. **pedigree:** L67-592,S x L66-432,El t e2. **remarks:** El t S. Annual. Genetic Material. Seed.
- PI 547539 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-1403. **pedigree:** L66-531,d1 El t e2 x L67-3246,e2 s-t. **remarks:** d1 El t e2 s-t. Annual. Genetic Material. Seed.
- PI 547540 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1495. **pedigree:** L6 x L63-3117,e2. **remarks:** e2 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547541 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1566. **pedigree:** L6(6) x T235. **remarks:** e2 wm Rps1 rxp. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547542 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1568. **pedigree:** L6(6) x T235. **remarks:** e2 t Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547543 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1582. **pedigree:** L6 x (L12(5) x Hawkeye). **remarks:** e2 Im Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547544 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1630. **pedigree:** L6 x L65-3366,El t. **remarks:** El t Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547545 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1663. **pedigree:** L6 x (Clark(6)x Higan). **remarks:** S Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547546 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1727. **pedigree:** (L6(6) x Seneca)L1 Rpsl rxp x L63-3297,dtl. **remarks:** dtl L1. Annual. Genetic Material. Seed.
- PI 547547 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1737. **pedigree:** L6 x L63-3297. **remarks:** dtl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547548 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1745. **pedigree:** L67-592,S x L63-3016,dtl. **remarks:** dtl S. Annual. Genetic Material. Seed.
- PI 547549 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1832. **pedigree:** L66-531,dtl El t e2 x L67-3246,e2 s-t. **remarks:** El t e2 s-t. Annual. Genetic Material. Seed.
- PI 547550 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1853. **pedigree:** (L12(6) x Hawkeye)Im Rpsl rxp x L66-531,dtl El t e2. **remarks:** dtl El t e2 Im Rpsl rxp. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547551 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1879. **pedigree:** L66-531,dtl El t e2 x L62-1686,Pdl. **remarks:** El t e2 Pdl. Annual. Genetic Material. Seed.
- PI 547552 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1885. **pedigree:** L66-531,dtl El t e2 x L62-1686,Pdl. **remarks:** dtl El t e2 Pdl. Annual. Genetic Material. Seed.
- PI 547553 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1893. **pedigree:** L65-3366,El t x L64-1731,s-t Np. **remarks:** El t s-t. Annual. Genetic Material. Seed.
- PI 547554 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1903. **pedigree:** L66-531,dtl El t e2 x L67-3207,dtl s-t. **remarks:** dtl El t s-t. Annual. Genetic Material. Seed.
- PI 547555 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1937. **pedigree:** Clark(6) x T219H. **other id:** L65-1237. **remarks:** Y11 y11. Annual. Genetic Material. Seed.
- PI 547556 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1977. **pedigree:** L6(6) x Soysota. **remarks:** n r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547557 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1987. **pedigree:** L6(6) x Soysota. **remarks:** n Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547558 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-2004. **pedigree:** L67-3484,i r Rps1 rxp(6) x Ogemaw. **remarks:** i o r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547559 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-2040. **pedigree:** L67-3484,i r Rps1 rxp(6) x PI 91073. **remarks:** i r-m Rps1 rxp. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547560 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-2111. **pedigree:** L12 x L62-1579,ln. **remarks:** ln I r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547561 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-2133. **pedigree:** L12 x L63-1889,rjl. **remarks:** I r rjl Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547562 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-2157. **pedigree:** L12 x L64-1344,Lf1. **remarks:** Lf1 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547563 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-2181. **pedigree:** L6(6) x T235. **remarks:** wm Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547564 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-2210. **pedigree:** L6(6) x T235. **remarks:** wm t Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547565 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-2824. **pedigree:** (L12(6) x T31)p2 Rps1 rxp x (Clark(6) x Columbia)d1 d2. **remarks:** d1 d2 p2 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547566 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-2832. **pedigree:** (L12(6) x T31)p2 Rps1 rxp x (Clark(6) x Columbia)d1 d2. **remarks:** d1 d2 p2 I r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547567 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-753. **pedigree:** L12(6) x Hawkeye,e2 Im. **remarks:** e2 I Im r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547568 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-760. **pedigree:** L12(6) x Hawkeye,e2 Im. **remarks:** e2 I r Rps1 rxp. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547569 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-811. **pedigree:** L6 x L62-1251,Dt2. **remarks:** Dt2 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547570 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-879. **pedigree:** L62-1251,Dt2 x L63-3016,dt1. **remarks:** dt1 Dt2. Annual. Genetic Material. Seed.
- PI 547571 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-904. **pedigree:** L66-531,dt1 El t e2 x L67-3246,e2 s-t. **remarks:** dt1 e2 s-t. Annual. Genetic Material. Seed.
- PI 547572 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-944. **pedigree:** (L12(6) x Hawkeye)Im Rps1 rxp x L66-531,dt1 El t e2. **remarks:** dt1 El t e2 I r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547573 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-980. **pedigree:** L62-1251,Dt2 x L66-432,El t e2. **remarks:** Dt2 El t. Annual. Genetic Material. Seed.
- PI 547574 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1004. **pedigree:** L6 x (L67-3472,i Rps1 rxp(5) x PI 47131). **remarks:** Fl i Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547575 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1018. **pedigree:** L6(6) x Kingwa. **remarks:** ab Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547576 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1034. **pedigree:** L6(6) x Kingwa. **remarks:** Pb Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547577 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1046. **pedigree:** L12 x L62-1686,Pd1. **remarks:** Pd1 Rps1 rxp. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

- PI 547578 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1054. **pedigree:** L12 x L63-1889,rjl. **remarks:** r rjl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547579 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1071. **pedigree:** L67-483,t x L66-228,td Rpsl rxp. **remarks:** t td. Annual. Genetic Material. Seed.
- PI 547580 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1087. **pedigree:** L6(6) x T255. **remarks:** lf2 Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547581 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1101. **pedigree:** L67-497,pal pa2 x L63-2435,pc. **remarks:** pal pa2 pc. Annual. Genetic Material. Seed.
- PI 547582 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1118. **pedigree:** L67-497,pal pa2 x L62-1686,Pd1. **remarks:** pal pa2 Pd1. Annual. Genetic Material. Seed.
- PI 547583 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-1144. **pedigree:** L67-497,pal pa2 x L63-2999,Ps. **remarks:** pal pa2 Ps. Annual. Genetic Material. Seed.
- PI 547584 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-03. **pedigree:** L6(6) x T260H. **remarks:** msl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547585 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-1089. **pedigree:** L69-4607,i-k Rpsl rxp x (L67-3484,i r Rpsl rxp(5) x Ogemaw,o). **remarks:** i-k o r Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547586 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L79-1800. **pedigree:** L6 x (L67-592,S x L62-1251,Dt2). **other id:** L74-387. **remarks:** Dt2 S Rpsl rxp. Annual. Genetic Material. Seed.

PI 547451 to 547587-continued

PI 547587 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L81-5082. **pedigree:** L12 x L64-2281 sib,t wl.
remarks: r wl Rpsl rxp. Annual. Genetic Material.
Seed.

PI 547588 to 547675. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station,
Department of Agronomy, University of Illinois, Urbana, Illinois,
United States. Received 1989.

PI 547588 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L63-2441. **pedigree:** Clark(6) x PI 84987.
remarks: e3 pc. Annual. Genetic Material. Seed.

PI 547589 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L63-3270. **pedigree:** Clark(6) x PI 84987.
remarks: dtl e3. Annual. Genetic Material. Seed.

PI 547590 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L65-601. **pedigree:** Clark(6) x T176. **remarks:**
t. Annual. Genetic Material. Seed.

PI 547591 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L65-792. **pedigree:** Clark(6) x PI 83945-4.
remarks: dtl. Annual. Genetic Material. Seed.

PI 547592 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L65-1068. **pedigree:** Clark(6) x Higan.
remarks: r. Annual. Genetic Material. Seed.

PI 547593 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L65-1077. **pedigree:** Clark(6) x PI 83945-4.
remarks: wl. Annual. Genetic Material. Seed.

PI 547594 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-236. **pedigree:** PI 101404A x Clark(6).
remarks: i(wild). Annual. Genetic Material. Seed.

PI 547595 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L68-237. **pedigree:** PI 101404A x Clark(6).
remarks: i Rpsl. Annual. Genetic Material. Seed.

PI 547588 to 547675-continued

- PI 547596 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4186. **pedigree:** L12 x (Clark 63(5) x Kanrich). **remarks:** r Rpm Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547597 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4413. **pedigree:** L6(6) x (Laredo x Harosoy). **remarks:** L1 Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547598 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-9283. **pedigree:** PI 101404B x Clark(6). **remarks:** Heterozygous for translocation. Annual. Genetic Material. Seed.
- PI 547599 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71U-659. **pedigree:** L63-3297,dtl x L62-1579,ln. **remarks:** dtl ln. Annual. Genetic Material. Seed.
- PI 547600 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72U-4191. **pedigree:** L62-1579,ln x L62-1686,Pd1. **remarks:** ln Pd1. Annual. Genetic Material. Seed.
- PI 547601 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72U-4282. **pedigree:** L62-1579,ln x (L63-3297,dtl x Clark 63). **remarks:** dtl ln Rpsl. Annual. Genetic Material. Seed.
- PI 547602 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72U-4304. **pedigree:** L63-3297,dtl x L62-1686,Pd1. **remarks:** dtl Pd1. Annual. Genetic Material. Seed.
- PI 547603 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72U-4317. **pedigree:** Clark 63 x (L63-3297,dtl x L62-1686,Pd1). **remarks:** dtl Pd1 Rpsl rxp. Annual. Genetic Material. Seed.

PI 547588 to 547675-continued

- PI 547604 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-671. **pedigree:** L67-3484,i r Rps1 rxp(6) x PI 91073. **remarks:** dtl i r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547605 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-681. **pedigree:** L12(6) x Harosoy,e2. **remarks:** e2 I r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547606 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-695. **pedigree:** L12(6) x Chippewa,e2. **remarks:** e2 I r Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547607 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73U-2774. **pedigree:** (L63-3297,dtl x L62-1579,ln) x (L63-3297,dtl x L62-1686,Pd1). **remarks:** dtl ln Pd1. Annual. Genetic Material. Seed.
- PI 547608 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-373. **pedigree:** L12 x (Clark(6) x Chief). **remarks:** s-t Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547609 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-434. **pedigree:** L6 x L67-3246,e2 s-t. **remarks:** e2 s-t Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547610 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-441. **pedigree:** L63-2404,e3 x L65-3366,El t. **remarks:** El t e3. Annual. Genetic Material. Seed.
- PI 547611 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-824. **pedigree:** L62-1027,cyt-G x L69-4755,y9 Rps1 rxp. **remarks:** cyt G y9 Rps1 rxp Note: testing not complete for rxp. Annual. Genetic Material. Seed.
- PI 547612 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-826. **pedigree:** L62-1027,cyt-G x L65-1237,Y11 y11. **remarks:** cyt G Y11 y11. Annual. Genetic Material. Seed.

PI 547588 to 547675-continued

- PI 547613 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-836. **pedigree:** (Clark(6) x Columbia)G dl d2 x L69-4755,y9 Rps1 rxp. **remarks:** dl d2 y9 Rps1 rxp
Note: testing not complete for rxp. Annual. Genetic Material. Seed.
- PI 547614 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-838. **pedigree:** (Clark(6) x Columbia)G dl d2 x L65-1237,Y11 y11. **remarks:** G dl d2 Y11 y11.
Annual. Genetic Material. Seed.
- PI 547615 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-851. **pedigree:** L67-1000,dl d2 x L63-2346,y3. **remarks:** G dl d2 y3. Annual. Genetic Material. Seed.
- PI 547616 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-852. **pedigree:** L69-4663,dl d2 x L63-1792,y7 y8. **remarks:** dl d2 y7 y8. Annual. Genetic Material. Seed.
- PI 547617 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-1060. **pedigree:** PI 101404B x Clark(6). **other id:** A72-1036. **remarks:** Chromosome translocation.
Annual. Genetic Material. Seed.
- PI 547618 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74U-6710. **pedigree:** L62-1579,ln x (Clark 63 x L62-1686,Pd1). **remarks:** ln Pd1 Rps1. Annual. Genetic Material. Seed.
- PI 547619 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-3901. **pedigree:** Clark(6) x Arksoy. **remarks:** Rps1-c. Annual. Genetic Material. Seed.
- PI 547620 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-6426. **pedigree:** L68-2063,r t wl Rps1 rxp x L70-4209 sib,i-k Rps1 rxp. **remarks:** i-k r t Rps1 rxp.
Annual. Genetic Material. Seed.

PI 547588 to 547675-continued

- PI 547621 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-6433. **pedigree:** L68-2063,r t wl Rpsl rxp x L70-4209 sib,i-k Rpsl rxp. **remarks:** i-k r wl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547622 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-6439. **pedigree:** L68-2063,r t wl Rpsl rxp x L70-4209 sib,i-k Rpsl rxp. **remarks:** i-k r t wl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547623 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-6551. **pedigree:** Clark x (Clark 63(6) x Kanrich). **remarks:** Rpm. Annual. Genetic Material. Seed.
- PI 547624 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-6631. **pedigree:** L72-1495,e2 Rpsl rxp(6) x PI 229342. **remarks:** e2 hb. Annual. Genetic Material. Seed.
- PI 547625 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-6648. **pedigree:** L6(6) x T264. **remarks:** Pd2 Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547626 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-6697. **pedigree:** L6(6) x PI 47131. **remarks:** ab Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547627 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-865. **pedigree:** L63-2404,e3 x L66-546,dtl El t. **remarks:** dtl El t e3. Annual. Genetic Material. Seed.
- PI 547628 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-1010. **pedigree:** L6 x [L68-2063,r t wl Rpsl rxp(5) x (Laredo x Harosoy)]. **remarks:** mi G t Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547629 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-1101. **pedigree:** L68-2063,r t wl Rpsl rxp x L70-4209,i-k Rpsl rxp. **remarks:** i-k t Rpsl rxp. Annual. Genetic Material. Seed.

PI 547588 to 547675-continued

- PI 547630 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-1113. **pedigree:** L68-2063,r t wl Rpsl rxp x L70-4209,i-k Rpsl rxp. **remarks:** i-k wl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547631 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-1122. **pedigree:** L68-2063,r t wl Rpsl rxp x L70-4209,i-k Rpsl rxp. **remarks:** i-k t wl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547632 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-1149. **pedigree:** L6(6) x T93. **remarks:** vl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547633 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-1169. **pedigree:** L6 x (Clark 63(6) x Kanrich). **remarks:** Rpm Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547634 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-1291. **pedigree:** Clark(6) x Higan. **remarks:** pal. Annual. Genetic Material. Seed.
- PI 547635 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-2060. **pedigree:** Clark(6) x L70-6494 (H(5) x D54-2437). **remarks:** Rps2 (rj2). Annual. Genetic Material. Seed.
- PI 547636 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-2096. **pedigree:** L6(2) x (L63-3117,e2(4) x PI 229342). **remarks:** e2 l2 Rpsl-c rxp. Annual. Genetic Material. Seed.
- PI 547637 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-2100. **pedigree:** L6(2) x (L63-3117,e2(4) x PI 229342). **remarks:** l2 Rpsl-c rxp. Annual. Genetic Material. Seed.
- PI 547638 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-2107. **pedigree:** L6(6) x PI 229342. **remarks:** Rpsl-c rxp. Annual. Genetic Material. Seed.

PI 547588 to 547675-continued

- PI 547639 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L77-2015. **pedigree:** Clark(6) x Kingwa.
remarks: Rpsl-k. Annual. Genetic Material. Seed.
- PI 547640 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L77-2050. **pedigree:** Clark(6)x Harrell.
remarks: dtl Rpsl-b hm. Annual. Genetic Material.
Seed.
- PI 547641 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L77-2061. **pedigree:** Clark(6)x Harrell.
remarks: Rpsl-b. Annual. Genetic Material. Seed.
- PI 547642 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L77-2654. **pedigree:** L65-701,1bl(6) x PI
196166. **remarks:** 1bl Lb2. Annual. Genetic Material.
Seed.
- PI 547643 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L78-434. **pedigree:** L6(6) x PI 96983. **remarks:**
Rsvl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547644 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L78-3263. **pedigree:** L6(6) x PI 229342.
remarks: hb Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547645 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L79-1308. **pedigree:** L6(6) x T259H. **remarks:**
ms2 Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547646 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L79-1380. **pedigree:** Clark(6) x Higan.
remarks: Rpsl-c. Annual. Genetic Material. Seed.
- PI 547647 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L79-1404. **pedigree:** Clark(6) x Arksoy.
remarks: 12 Rpsl-c. Annual. Genetic Material. Seed.
- PI 547648 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L79-1685. **pedigree:** L65-600,lw1 t(6) x
T117,Lw2. **remarks:** lw1 t Lw2. Annual. Genetic
Material. Seed.

PI 547588 to 547675-continued

- PI 547649 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L79-1815. **pedigree:** L62-1686,Pd1 x (L6(6) x T264)Pd2. **remarks:** Pd1 Pd2 rxp?. Annual. Genetic Material. Seed.
- PI 547650 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L80-5879. **pedigree:** L70-4478,dt1 El t e2 Rps1 rxp x L71-920,e2 e3. **remarks:** dt1 El t e2 e3. Annual. Genetic Material. Seed.
- PI 547651 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L80-5882. **pedigree:** L70-4478,dt1 El t e2 Rps1 rxp x L71-920,e2 e3. **remarks:** dt1 e2 e3 rxp?. Annual. Genetic Material. Seed.
- PI 547652 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L80-5914. **pedigree:** L70-4478,dt1 El t e2 Rps1 rxp x L71-920,e2 e3. **remarks:** El t e2 e3. Annual. Genetic Material. Seed.
- PI 547653 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-4651. **pedigree:** L70-4558,pa2 x L76-1291,pal. **remarks:** pal pa2. Annual. Genetic Material. Seed.
- PI 547654 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-4659. **pedigree:** L6(6) x Calland. **remarks:** e2 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547655 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-4858. **pedigree:** L6(2) x L63-1889. **remarks:** rjl Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547656 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-4871. **pedigree:** L6(6) x PI 157440. **other id:** GP-73. **source:** Crop Sci. 26(3):650 1986. **group:** CSR-SOYBEAN. **remarks:** ti Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547657 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-4945. **pedigree:** L6(6) x PI 81763. **remarks:** w4 Rps1 rxp. Annual. Genetic Material. Seed.

PI 547588 to 547675-continued

- PI 547658 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-5080. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** I r wl Rpsl rpsl. Annual. Genetic Material. Seed.
- PI 547659 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L82-2669. **pedigree:** L66-14,i Rpsl rxp x (L12 x L64-2281 sib,t wl). **remarks:** i r t wl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547660 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-693. **pedigree:** i mutation in L6(6) x PI 157440. **remarks:** i ti Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547661 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-841. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** I t wl Rpsl rxp Note: testing not complete for rxp. Annual. Genetic Material. Seed.
- PI 547662 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-879. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** I t Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547663 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-900. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** r t Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547664 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-930. **pedigree:** L66-14,i Rpsl rxp x (L12 x L64-2281 sib,t wl). **remarks:** i r t Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547665 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-942. **pedigree:** L66-14,i Rpsl rxp x (L12 x L64-2281 sib,t wl). **remarks:** i r wl Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547666 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-964. **pedigree:** L68-1562,L1 x L63-3016,dtl. **remarks:** dtl L1. Annual. Genetic Material. Seed.

PI 547588 to 547675-continued

- PI 547667 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-971. **pedigree:** L62-1615,lo x L63-3016,dtl. **remarks:** dtl lo. Annual. Genetic Material. Seed.
- PI 547668 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L84-1135. **pedigree:** L6(6) x (Laredo x Harosoy). **remarks:** t w4 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547669 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L84-1231. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** I wl Rps1 rxp Note: testing not complete for rxp. Annual. Genetic Material. Seed.
- PI 547670 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L85-1467. **pedigree:** Clark(6) x PI 84987. **remarks:** t. Annual. Genetic Material. Seed.
- PI 547671 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L86-1078. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** I t Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547672 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L86-1084. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** I t. Annual. Genetic Material. Seed.
- PI 547673 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L86-1092. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** r t. Annual. Genetic Material. Seed.
- PI 547674 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L86-1096. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** I t wl Rps1 rxp Note: testing not complete for rxp. Annual. Genetic Material. Seed.
- PI 547675 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L86-1098. **pedigree:** L12 x L64-2281 sib,t wl. **remarks:** I t wl. Annual. Genetic Material. Seed.

PI 547676. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1953.

origin: United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L58-266. **pedigree:** Mandarin (Ottawa)(2) x AK (Harrow). **other id:** Harosoy-L2. Annual. Genetic Material. Seed.

PI 547677 to 547713. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1972.

PI 547677 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L59-731. **pedigree:** Harosoy(8) x Blackhawk.
other id: Harosoy 63. **remarks:** Rps1. Annual. Genetic Material. Seed.

PI 547678 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L61-4094. **pedigree:** Harosoy(6) x S54-1207.
other id: L3. **remarks:** rxp. Annual. Genetic Material. Seed.

PI 547679 **donor id:** L2. **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L61-5047. **pedigree:** Harosoy 63 x L3,rxp.
other id: GP-6. **source:** Crop Sci. 9(3):397 1969.
group: CSR-SOYBEAN. **remarks:** Rps1 rxp. Annual. Genetic Material. Seed.

PI 547680 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-17. **pedigree:** Medium Green x Harosoy(7).
remarks: cyt-G. Annual. Genetic Material. Seed.

PI 547681 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-364. **pedigree:** Harosoy(6) x T117.
remarks: Dt2. Annual. Genetic Material. Seed.

PI 547682 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-561. **pedigree:** Harosoy(6) x T145.
remarks: P1. Annual. Genetic Material. Seed.

PI 547677 to 547713-continued

- PI 547683 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-801. **pedigree:** Harosoy(6) x PI 80837.
remarks: Pdl. Annual. Genetic Material. Seed.
- PI 547684 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-880. **pedigree:** Harosoy(6) x PI 91160.
remarks: Ps. Annual. Genetic Material. Seed.
- PI 547685 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-906. **pedigree:** Harosoy(6) x PI 91160.
remarks: wl. Annual. Genetic Material. Seed.
- PI 547686 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-956. **pedigree:** Harosoy(6) x PI 86024.
remarks: Lfl. Annual. Genetic Material. Seed.
- PI 547687 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-973. **pedigree:** Harosoy(6) x PI 86024.
remarks: dtl. Annual. Genetic Material. Seed.
- PI 547688 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L63-1016. **pedigree:** Harosoy(6) x T139.
remarks: y3. Annual. Genetic Material. Seed.
- PI 547689 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L63-1097. **pedigree:** Harosoy(6) x PI 84987.
remarks: pc. Annual. Genetic Material. Seed.
- PI 547690 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L63-1212. **pedigree:** Harosoy(6) x T204.
remarks: ln. Annual. Genetic Material. Seed.
- PI 547691 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L64-2489. **pedigree:** Harosoy(6) x Columbia.
remarks: G dl d2. Annual. Genetic Material. Seed.
- PI 547692 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L65-372. **pedigree:** Harosoy(6) x T204.
remarks: lo. Annual. Genetic Material. Seed.

PI 547677 to 547713-continued

- PI 547693 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L65-540. **pedigree:** Harosoy(6) x T176.
remarks: R. Annual. Genetic Material. Seed.
- PI 547694 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L65-756. **pedigree:** Harosoy(6) x PI 83945-4.
remarks: f. Annual. Genetic Material. Seed.
- PI 547695 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L65-1274. **pedigree:** Harosoy(6) x T201. **other**
id: L14. **remarks:** rjl. Annual. Genetic Material.
Seed.
- PI 547696 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L66-704. **pedigree:** Harosoy(6) x (C(6) x
Chief). **other id:** L17. **remarks:** Np. Annual. Genetic
Material. Seed.
- PI 547697 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L66-707. **pedigree:** Harosoy(6) x Clark.
remarks: T. Annual. Genetic Material. Seed.
- PI 547698 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L66-731. **pedigree:** Harosoy(6) x PI 54619.
other id: L18. **remarks:** fe. Annual. Genetic Material.
Seed.
- PI 547699 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-38. **pedigree:** Harosoy(6) x Clark.
remarks: i-i. Annual. Genetic Material. Seed.
- PI 547700 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-226. **pedigree:** Harosoy(6) x Higan.
remarks: 12. Annual. Genetic Material. Seed.
- PI 547701 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-971. **pedigree:** Harosoy(6) x Columbia.
remarks: G d2. Annual. Genetic Material. Seed.
- PI 547702 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-2324. **pedigree:** Harosoy(6) x PI 196166.
remarks: El T. Annual. Genetic Material. Seed.

PI 547677 to 547713-continued

- PI 547703 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3256. **pedigree:** (Harosoy(6) x T117)Dt2 x L62-973,dt1. **remarks:** dt1 Dt2. Annual. Genetic Material. Seed.
- PI 547704 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3388. **pedigree:** mutation in Harosoy found in 1959 at Urbana. **remarks:** i. Annual. Genetic Material. Seed.
- PI 547705 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-560. **pedigree:** Harosoy(6) x T138. **remarks:** y7 y8. Annual. Genetic Material. Seed.
- PI 547706 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-582. **pedigree:** L2(6) x Seneca. **remarks:** L1 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547707 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-694. **pedigree:** Harosoy(6) x PI 196166. **remarks:** E1. Annual. Genetic Material. Seed.
- PI 547708 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-758. **pedigree:** Harosoy(4) x L2,Rps1 rxp. **remarks:** Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547709 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4265. **pedigree:** Harosoy(6) x Columbia. **other id:** L69-4268. **remarks:** G dl. Annual. Genetic Material. Seed.
- PI 547710 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4266. **pedigree:** Harosoy(6) x Columbia. **remarks:** d2. Annual. Genetic Material. Seed.
- PI 547711 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4267. **pedigree:** Harosoy(6) x Columbia. **remarks:** dl d2. Annual. Genetic Material. Seed.
- PI 547712 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4318. **pedigree:** L2(6) x T135. **remarks:** y9 Rps1 rxp. Annual. Genetic Material. Seed.

PI 547677 to 547713-continued

PI 547713 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L70-4001. **pedigree:** L2(6) x T31. **remarks:** p2
Rps1 rxp. Annual. Genetic Material. Seed.

PI 547714 to 547762. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station,
Department of Agronomy, University of Illinois, Urbana, Illinois,
United States. Received 1975.

PI 547714 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-542. **pedigree:** Harosoy(6) x T145.
remarks: 12. Annual. Genetic Material. Seed.

PI 547715 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-558. **pedigree:** Harosoy(6) x T145.
remarks: 12 Pl. Annual. Genetic Material. Seed.

PI 547716 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L62-667. **pedigree:** Harosoy(6) x T204. **other**
id: L73-1543. **remarks:** e3. Annual. Genetic Material.
Seed.

PI 547717 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L63-1397. **pedigree:** Harosoy(6) x PI 80837.
remarks: Dt2. Annual. Genetic Material. Seed.

PI 547718 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L63-1612. **pedigree:** Harosoy 63 x [(T235(2) x
(Harosoy(5) x Blackhawk)]. **remarks:** wm Rps1. Annual.
Genetic Material. Seed.

PI 547719 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L64-1069. **pedigree:** (Harosoy(6) x PI 86024)Lf1
x (Harosoy(6) x T204)ln. **remarks:** Lf1 ln. Annual.
Genetic Material. Seed.

PI 547720 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L65-25. **pedigree:** (Harosoy(6) x PI 84987)pc x
(Harosoy(6) x PI 80837)Pd1. **remarks:** pc Pd1. Annual.
Genetic Material. Seed.

PI 547714 to 547762-continued

- PI 547721 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-34. **pedigree:** (Harosoy(6) x PI 84987)pc x (Harosoy(6) x PI 91160)Ps. **remarks:** pc Ps. Annual. Genetic Material. Seed.
- PI 547722 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-60. **pedigree:** (Harosoy(6) x PI 91160)Ps x Harosoy(6) x PI 80837)Pd1. **remarks:** Pd1 Ps. Annual. Genetic Material. Seed.
- PI 547723 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-237. **pedigree:** Harosoy(6) x Higan. **remarks:** pal Ps-s. Annual. Genetic Material. Seed.
- PI 547724 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-461. **pedigree:** Harosoy(6) x T176. **remarks:** lwl. Annual. Genetic Material. Seed.
- PI 547725 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-1058. **pedigree:** Harosoy(6) x T117. **remarks:** Dt2 i-i. Annual. Genetic Material. Seed.
- PI 547726 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-713. **pedigree:** Harosoy(6) x L9(Clark-Np). **remarks:** Np T. Annual. Genetic Material. Seed.
- PI 547727 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-721. **pedigree:** Harosoy(6) x L9(Clark-Np). **remarks:** i-i Np. Annual. Genetic Material. Seed.
- PI 547728 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-2470. **pedigree:** L2 x (Harosoy(6) x T201). **remarks:** rjl Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547729 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-153. **pedigree:** Harosoy(6) x Higan. **remarks:** dt1. Annual. Genetic Material. Seed.
- PI 547730 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-166. **pedigree:** Harosoy(6) x Higan. **remarks:** Ps-s. Annual. Genetic Material. Seed.

PI 547714 to 547762-continued

- PI 547731 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-225. **pedigree:** Harosoy(6) x Higan.
remarks: 12 S. Annual. Genetic Material. Seed.
- PI 547732 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-234. **pedigree:** Harosoy(6) x Higan.
remarks: S. Annual. Genetic Material. Seed.
- PI 547733 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-271. **pedigree:** Harosoy(6) x Higan.
remarks: pal. Annual. Genetic Material. Seed.
- PI 547734 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-1250. **pedigree:** L2 x (Harosoy(6) x T117).
remarks: Dt2 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547735 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-1687. **pedigree:** Harosoy(6) x T176.
remarks: i-i R lwl. Annual. Genetic Material. Seed.
- PI 547736 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-1695. **pedigree:** Harosoy(6) x T176.
remarks: i-i R. Annual. Genetic Material. Seed.
- PI 547737 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-3099. **pedigree:** (Harosoy(6) x PI 84987)pc
x L62-561,Pl. **remarks:** Pl pc. Annual. Genetic
Material. Seed.
- PI 547738 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-3101. **pedigree:** (Harosoy(6) x PI 80837)Pd1
x L62-561,Pl. **remarks:** Pl Pd1. Annual. Genetic
Material. Seed.
- PI 547739 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L67-3104. **pedigree:** (Harosoy(6) x PI 91160)Ps
x L62-561,Pl. **remarks:** Pl Ps. Annual. Genetic
Material. Seed.

PI 547714 to 547762-continued

- PI 547740 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3298. **pedigree:** [(Harosoy(6) x T117)Dt2 x (Harosoy(6) x T204)ln] x [(Harosoy(6) x T117)Dt2 x (Harosoy(6) x PI 86024)Lf1]. **remarks:** Dt2 Lf1 ln. Annual. Genetic Material. Seed.
- PI 547741 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3396. **pedigree:** mutation in L2 found in 1963 at Shabbona, IL. **remarks:** i Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547742 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-6095. **pedigree:** Harosoy(6) x Higan. **remarks:** pa1 pa2. Annual. Genetic Material. Seed.
- PI 547743 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4037. **pedigree:** (L2(5) x T31)p2* x (Harosoy(6) x Columbia)d1 d2. **remarks:** d1 d2 p2 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547744 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4112. **pedigree:** Harosoy(6) x Higan. **other id:** L70-4119. **remarks:** pa2. Annual. Genetic Material. Seed.
- PI 547745 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L70-4136. **pedigree:** (Harosoy(6) x T204)ln x (Harosoy(6) x T204)lo. **remarks:** ln lo. Annual. Genetic Material. Seed.
- PI 547746 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-46. **pedigree:** L2 x L62-801,Pd1. **remarks:** Pd1 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547747 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-802. **pedigree:** L62-667,e3 x L67-2324,El T. **remarks:** El T e3. Annual. Genetic Material. Seed.
- PI 547748 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-1106. **pedigree:** L67-234,S x L67-2324, El T. **remarks:** El T S. Annual. Genetic Material. Seed.

PI 547714 to 547762-continued

- PI 547749 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71-1116. **pedigree:** L67-2324,El T x L67-153,dt1. **remarks:** dt1 El T. Annual. Genetic Material. Seed.
- PI 547750 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1078. **pedigree:** L2(6) x Laredo. **remarks:** W3 w4 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547751 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1138. **pedigree:** L2(6) x Laredo. **remarks:** w4 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547752 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1140. **pedigree:** L2(6) x Soysota. **remarks:** n Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547753 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1177. **pedigree:** L2 x L62-535,dt1 (Harosoy(6) x T145). **remarks:** dt1 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547754 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1198. **pedigree:** L2 x L67-234,S. **remarks:** S Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547755 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1228. **pedigree:** L67-234,S x L67-153,dt1. **remarks:** dt1 S. Annual. Genetic Material. Seed.
- PI 547756 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1241. **pedigree:** L67-234,S x L63-1397,Dt2. **remarks:** Dt2 S. Annual. Genetic Material. Seed.
- PI 547757 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1304. **pedigree:** L2 x L67-2324,El T. **remarks:** El T Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547758 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-54. **pedigree:** L69-4268,G dl x L69-4267,dl d2. **remarks:** dl. Annual. Genetic Material. Seed.

PI 547714 to 547762-continued

- PI 547759 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-67. **pedigree:** L2(6) x Kingwa. **remarks:** ab Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547760 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-79. **pedigree:** L2(6) x Kingwa. **remarks:** Pb Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547761 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-105. **pedigree:** (L2 x L67-234)S* x L67-1250,Dt2*. **remarks:** Dt2 S Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547762 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-59. **pedigree:** L67-2324,El T x L67-1397,Dt2. **remarks:** Dt2 El T. Annual. Genetic Material. Seed.

PI 547763 to 547794. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1989.

- PI 547763 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-812. **pedigree:** Harosoy(6) x PI 80837. **remarks:** Dt2 E5. Annual. Genetic Material. Seed.
- PI 547764 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L62-904. **pedigree:** Harosoy(6) x PI 91160. **remarks:** Rps5 wl. Annual. Genetic Material. Seed.
- PI 547765 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-1069. **pedigree:** Harosoy(6) x T139. **remarks:** R. Annual. Genetic Material. Seed.
- PI 547766 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-2139. **pedigree:** Harosoy(6) x Peking. **remarks:** wl. Annual. Genetic Material. Seed.

PI 547763 to 547794-continued

- PI 547767 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-4103. **pedigree:** Harosoy(6) x Columbia. **remarks:** E1. Annual. Genetic Material. Seed.
- PI 547768 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-4584. **pedigree:** Harosoy(6) x T117. **remarks:** E2. Annual. Genetic Material. Seed.
- PI 547769 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-4830. **pedigree:** Harosoy(6) x PI 80837. **remarks:** E5. Annual. Genetic Material. Seed.
- PI 547770 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-556. **pedigree:** Harosoy(6) x T176. **remarks:** i-i. Annual. Genetic Material. Seed.
- PI 547771 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-1053. **pedigree:** Harosoy(6) x T117. **remarks:** i-i. Annual. Genetic Material. Seed.
- PI 547772 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-949. **pedigree:** Harosoy(6) x Columbia. **remarks:** i-i. Annual. Genetic Material. Seed.
- PI 547773 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4428. **pedigree:** L2(6) x PI 81763. **remarks:** L1 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547774 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71L-3004. **pedigree:** L67-2324,E1 T x L64-4584,E2. **remarks:** E1 T E2. Annual. Genetic Material. Seed.
- PI 547775 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L71L-3015. **pedigree:** L67-2324,E1 T x L64-4830,E5. **remarks:** E1 T E5. Annual. Genetic Material. Seed.
- PI 547776 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72D-4028. **pedigree:** L63-1212,ln x L62-801,Pd1. **remarks:** ln Pd1. Annual. Genetic Material. Seed.

PI 547763 to 547794-continued

- PI 547777 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72D-4029. **pedigree:** (L63-1212,ln x Harosoy 63) x L62-801,Pd1. **remarks:** ln Pd1 Rps1. Annual. Genetic Material. Seed.
- PI 547778 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72D-4045. **pedigree:** L63-1212,ln x Harosoy 63. **remarks:** ln Rps1. Annual. Genetic Material. Seed.
- PI 547779 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72D-4110. **pedigree:** L63-1212,ln x L62-535,d1(Harosoy(6) x T145). **remarks:** dt1 ln. Annual. Genetic Material. Seed.
- PI 547780 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72D-4169. **pedigree:** (L62-535,d1 x L62-801,Pd1) x (L62-535,d1 x L63-1212,ln). **remarks:** dt1 ln Pd1. Annual. Genetic Material. Seed.
- PI 547781 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73D-2733. **pedigree:** L62-535,d1 x L62-801,Pd1. **remarks:** dt1 Pd1. Annual. Genetic Material. Seed.
- PI 547782 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73D-2743. **pedigree:** (L63-1212,ln x Harosoy 63) x (L62-535,d1 x Harosoy 63). **remarks:** dt1 ln Rps1. Annual. Genetic Material. Seed.
- PI 547783 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-21. **pedigree:** L2(6) x Clark. **remarks:** E2 T Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547784 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-27. **pedigree:** L2(6) x Clark. **remarks:** E2 Rps1 rxp. Annual. Genetic Material. Seed.
- PI 547785 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-66. **pedigree:** L64-4584,E2 x L64-4830,E5. **remarks:** E2 E5. Annual. Genetic Material. Seed.

PI 547763 to 547794-continued

- PI 547786 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L79-842. **pedigree:** L71-1106,E1 T S x L74-59, Dt2 El T. **remarks:** Dt2 El T S. Annual. Genetic Material. Seed.
- PI 547787 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-4075. **pedigree:** L67-271,pal x L70-4112,pa2. **remarks:** pal pa2. Annual. Genetic Material. Seed.
- PI 547788 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L82-1449. **pedigree:** Harosoy(6) x D54-2437. **remarks:** Rps2 Rmd Rj2. Annual. Genetic Material. Seed.
- PI 547789 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L84-307. **pedigree:** L64-4584,E2 x L73-1543,e3. **remarks:** E2 e3. Annual. Genetic Material. Seed.
- PI 547790 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L84-337. **pedigree:** L64-4830,E5 x L73-1543,e3. **remarks:** e3 E5. Annual. Genetic Material. Seed.
- PI 547791 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L85-129. **pedigree:** Harosoy(6) x Higan. **remarks:** Rps1-c hm?. Annual. Genetic Material. Seed.
- PI 547792 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L85-144. **pedigree:** Harosoy(6) x Higan. **remarks:** 12 Rps1-c hm?. Annual. Genetic Material. Seed.
- PI 547793 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L86L-4. **pedigree:** L64-4830,E5 x L74-27,E2*. **remarks:** E2 E5. Annual. Genetic Material. Seed.
- PI 547794 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L86-493. **pedigree:** L2,Rps1 x (Harosoy(5) x D54-2437)Rps2 Rmd Rj2. **remarks:** Rps1 Rps2 Rmd Rj2. Annual. Genetic Material. Seed.

PI 547795 to 547816. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1975.

- PI 547795 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-16. **pedigree:** Chippewa(10) x Blackhawk. **remarks:** Rpsl. Annual. Genetic Material. Seed.
- PI 547796 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L63-42. **pedigree:** Chippewa(8) x L59g-16. L59g-16 is from C1128(2) x S54-1207 C1128 is from Wabash x Hawkeye. S54-1207 is from Hawkeye x (L49-4901 X L46-2132-1). L49-4901 is from [F3 Lincoln(2) x Richland] x (F1 Lincoln x CNS). L46-2132-1 is from. **remarks:** rxp. Annual. Genetic Material. Seed.
- PI 547797 **donor id:** L10. **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L64-2721. **pedigree:** (Chippewa(8) x CNS) x (Chippewa(10) x Blackhawk). **other id:** GP-2. **source:** Crop Sci. 9(3):397 1969. **group:** CSR-SOYBEAN. **remarks:** Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547798 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L65-4059. **pedigree:** Wayne(6) x Clark 63. **other id:** L15. **other id:** GP-8. **source:** Crop Sci. 9(3):397 1969. **group:** CSR-SOYBEAN. **remarks:** Rpsl. Annual. Genetic Material. Seed.
- PI 547799 **donor id:** L16. **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-892. **pedigree:** [L10(6) x (Clark(6) x T201)]I Rpsl rxp x [L10(6) x (Clark(6) x T145)]P1 r Rpsl rxp. **other id:** GP-3. **source:** Crop Sci. 9(3):397 1969. **group:** CSR-SOYBEAN. **remarks:** I r Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547800 **donor id:** L20. **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L66-949. **pedigree:** Wayne(5) x L68-2045, Clark-I P1 r. **other id:** GP-7. **source:** Crop Sci. 9(3):397 1969. **group:** CSR-SOYBEAN. **remarks:** I r. Annual. Genetic Material. Seed.
- PI 547801 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3521. **pedigree:** Wayne(5) x L68-2045, Clark-I P1 r. **other id:** L67-3522. **remarks:** I P1 r. Annual. Genetic Material. Seed.

PI 547795 to 547816-continued

- PI 547802 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3542. **pedigree:** L15 x (Wayne(4) x L68-2045,Clark-I Pl r). **other id:** L67-3526. **remarks:** I r Rpsl. Annual. Genetic Material. Seed.
- PI 547803 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L67-3586. **pedigree:** [L10(6) x (Clark(6) x T201)]I Rpsl rxp x [L10(6) x (Clark(6) x T145)]Pl r Rpsl rxp. **remarks:** I Pl r Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547804 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-4064. **pedigree:** Wayne(10) x Kanrich. **other id:** SL9. **remarks:** Rpm. Annual. Genetic Material. Seed.
- PI 547805 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-4172. **pedigree:** L10 x [Chippewa 64(5) x (Clark(2) x Kanrich)]. **other id:** SL7. **remarks:** Rpm Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547806 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-4216. **pedigree:** L16 x SL7. **other id:** SL8. **remarks:** I r Rpm Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547807 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-4242. **pedigree:** L10 x (Chippewa 64(4) x S62X30:1) S62X30:1 is [Clark(2) x (Lincoln(2) x Richland)]I t wl x (Clark 63(3) x Kanrich)Rpm Rpsl rxp. **remarks:** I t wl Rpm Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547808 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L68-4291. **pedigree:** L10(6) x Clark. **remarks:** E2 Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547809 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4124. **pedigree:** L15,Rpsl x SL9,Rpm. **other id:** SL10. **remarks:** Rpm Rpsl. Annual. Genetic Material. Seed.

PI 547795 to 547816-continued

- PI 547810 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L69-4180. **pedigree:** L67-3526, I r Rpsl x SL9, Rpm. **other id:** SL12. **remarks:** I r Rpm Rpsl. Annual. Genetic Material. Seed.
- PI 547811 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1369. **pedigree:** SL12(6) x (Clark(6) x T204)ln. **remarks:** ln I r Rpm Rpsl. Annual. Genetic Material. Seed.
- PI 547812 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1404. **pedigree:** SL12(6) x (Clark(6) x PI 86024)e2. **other id:** L72-1392. **remarks:** e2 I r Rpm Rpsl. Annual. Genetic Material. Seed.
- PI 547813 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-1424. **pedigree:** L15, Rpsl x SL12, I r Rpm Rpsl. **remarks:** I r Rpm Rpsl. Annual. Genetic Material. Seed.
- PI 547814 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-210. **pedigree:** SL12(6) x Merit. **remarks:** Im I r Rpm Rpsl. Annual. Genetic Material. Seed.
- PI 547815 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L73-212. **pedigree:** SL12(6) x Merit. **remarks:** Im I r Rpm Rpsl. Annual. Genetic Material. Seed.
- PI 547816 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-4387. **pedigree:** Amsoy 71(6) x PI 151440. **other id:** GP-74. **source:** Crop Sci. 26(3):650 1986. **group:** CSR-SOYBEAN. **remarks:** ti. Annual. Genetic Material. Seed.

PI 547817 to 547831. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1989.

PI 547817 to 547831-continued

- PI 547817 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L72-607. **pedigree:** SL7 x [L16 x (L10(2) x Merit)]. **remarks:** Im Rpm Rpsl rxp. Annual. Genetic Material. Seed.
- PI 547818 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-142. **pedigree:** L72-1369,ln I r Rpm Rpsl x L72-1392,e2 I r Rpm Rpsl. **remarks:** e2 ln I r Rpm Rpsl. Annual. Genetic Material. Seed.
- PI 547819 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-143. **pedigree:** L72-1369,ln I r Rpm Rpsl x L72-1392,e2 I r Rpm Rpsl. **remarks:** e2 ln I r Rpsl. Annual. Genetic Material. Seed.
- PI 547820 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-0570. **pedigree:** Wells(6) x T259. **remarks:** ms2. Annual. Genetic Material. Seed.
- PI 547821 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-0587. **pedigree:** Beeson(6) x T259. **remarks:** ms2. Annual. Genetic Material. Seed.
- PI 547822 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-612. **pedigree:** L15 x (SL12(5) x Merit). **remarks:** e2 I r Rpsl. Annual. Genetic Material. Seed.
- PI 547823 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L77-1585. **pedigree:** Corsoy(6) x (Harosoy(5) x D54-2437). **remarks:** Rps2. Annual. Genetic Material. Seed.
- PI 547824 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L77-2152. **pedigree:** L15 x (SL12(5) x Merit). **remarks:** e2 I r Rpsl. Annual. Genetic Material. Seed.
- PI 547825 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L78-189. **pedigree:** Corsoy(8) x Kingwa. **other id:** L27. **remarks:** Rpsl-k. Annual. Genetic Material. Seed.

PI 547817 to 547831-continued

- PI 547826 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L80-5015. **pedigree:** Corsoy 79 x L77-1585,Rps2
Rj2. **other id:** L28. **remarks:** Rps1-c Rps2 Rj2. Annual.
Genetic Material. Seed.
- PI 547827 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L81-4274. **pedigree:** Elf(6) x Williams.
remarks: Dtl. Annual. Genetic Material. Seed.
- PI 547828 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L82-1011. **pedigree:** Amsoy 71(6) x PI 151440.
remarks: dtl. Annual. Genetic Material. Seed.
- PI 547829 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L82-1187. **pedigree:** L77-1585,Rps2 Rj2 x
(Corsoy(8) x Kingwa)Rps1-k. **remarks:** Rps1-k Rps2 Rj2.
Annual. Genetic Material. Seed.
- PI 547830 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L83-0214. **pedigree:** PI 65549(6) x PI 96983.
remarks: Rsv1. Annual. Genetic Material. Seed.
- PI 547831 **origin:** United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L83-0215. **pedigree:** PI 65549(6) x PI 96983.
remarks: Rsv1. Annual. Genetic Material. Seed.

PI 547832. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station,
Department of Agronomy, University of Illinois, Urbana, Illinois,
United States. Received 1971.

origin: United States. **origin institute:**
USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.
cultivar: L74-01. **pedigree:** Williams(6) x T259H.
remarks: ms2. Annual. Genetic Material. Seed.

PI 547833 to 547834. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station,
Department of Agronomy, University of Illinois, Urbana, Illinois,
United States. Received 1979.

PI 547833 to 547834-continued

PI 547833 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-189. **pedigree:** Williams(6) x (Clark(6) x T117). **other id:** Will. **remarks:** Dt2. Annual. Genetic Material. Seed.

PI 547834 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-3735. **pedigree:** Williams(6) x Lee 68. **other id:** Williams 79. **remarks:** Rps1-c. Annual. Genetic Material. Seed.

PI 547835 to 547889. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1989.

PI 547835 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L74-221. **pedigree:** Williams(6) x (Clark(6) x T117). **other id:** Will. **remarks:** Dt2 ep. Annual. Genetic Material. Seed.

PI 547836 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-6111. **pedigree:** Williams(6) x [SL12,Wayne-I r Rpm Rps1(6) x (Clark(6) x PI 86024)e2]. **remarks:** e2. Annual. Genetic Material. Seed.

PI 547837 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L75-6141. **pedigree:** Williams(6) x SL12,Wayne-Rpm Rps1; = Williams x Union. **other id:** L75-6125. **remarks:** Rpm Rps1. Annual. Genetic Material. Seed.

PI 547838 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-1988. **pedigree:** Williams(6) x (Harosoy(5) x D54-2437). **other id:** L76-2013. **remarks:** Rps2 Rj2. Annual. Genetic Material. Seed.

PI 547839 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-1994. **pedigree:** Williams(6) x (Harosoy(5) x D54-2437). **remarks:** I Rps2 Rj2?. Annual. Genetic Material. Seed.

PI 547835 to 547889-continued

- PI 547840 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L76-2023. **pedigree:** Williams(6) x (Harosoy(5) x D54-2437). **remarks:** t Rps2 Rj2?. Annual. Genetic Material. Seed.
- PI 547841 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L77-1727. **pedigree:** Williams(6) x (Clark 63(3) x PI 229342). **remarks:** Rps1-c. Annual. Genetic Material. Seed.
- PI 547842 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L77-1863. **pedigree:** Williams(7) x Harrel. **other id:** L26. **other id:** L77-1818. **remarks:** Rps1-b hm. Annual. Genetic Material. Seed.
- PI 547843 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L77-5632. **pedigree:** Williams(6) x L69-5343, Clark Rps1 rxp -I r Im. **other id:** L75-6867. **remarks:** Im. Annual. Genetic Material. Seed.
- PI 547844 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L78-379. **pedigree:** Williams(6) x PI 96983. **other id:** L25. **remarks:** Rsv1. Annual. Genetic Material. Seed.
- PI 547845 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L78-3079. **pedigree:** Williams(6) x L69-5343, Clark Rps1 rxp -I r Im. **remarks:** L2 Im. Annual. Genetic Material. Seed.
- PI 547846 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L78-3083. **pedigree:** Williams(6) x L69-5343, Clark Rps1 rxp -I r Im. **remarks:** L2. Annual. Genetic Material. Seed.
- PI 547847 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L78-3130. **pedigree:** Wisconsin Black x Williams(6). **remarks:** cytoplasm. Annual. Genetic Material. Seed.
- PI 547848 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L79-908. **pedigree:** Williams(6) x Lee 68. **remarks:** W1 Rps1-c. Annual. Genetic Material. Seed.

PI 547835 to 547889-continued

- PI 547849 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L79-1250. **pedigree:** Will x Williams 82. **other id:** L79-1224. **remarks:** Dt2 Rpsl-k. Annual. Genetic Material. Seed.
- PI 547850 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L79-1270. **pedigree:** Will x L75-6867,Im. **remarks:** Dt2 Im. Annual. Genetic Material. Seed.
- PI 547851 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L80-5227. **pedigree:** Will x (Williams(6) x PI 96983). **other id:** L80-5230. **remarks:** Dt2 Rsvl. Annual. Genetic Material. Seed.
- PI 547852 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L80-5372. **pedigree:** Williams(6) x (Clark 63(3) x PI 229342). **remarks:** Wl Rpsl-c. Annual. Genetic Material. Seed.
- PI 547853 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L80-5427. **pedigree:** Williams x L75-6125,Rpm Rpsl; = Williams(2) x Union. **remarks:** Rpm. Annual. Genetic Material. Seed.
- PI 547854 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L80-5452. **pedigree:** Williams 79,Rpsl-c x L75-6867,Im. **remarks:** Im Rpsl-c. Annual. Genetic Material. Seed.
- PI 547855 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-4308. **pedigree:** Will x L75-6125,Rpm Rpsl. **other id:** L79-1178. **remarks:** Dt2 Rpm Rpsl. Annual. Genetic Material. Seed.
- PI 547856 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-4352. **pedigree:** Williams 79,Rpsl-c x L76-2013,Rps2 Rj2. **remarks:** Rpsl-c Rps2 Rj2. Annual. Genetic Material. Seed.
- PI 547857 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L81-4420. **pedigree:** L78-379,Rsvl x Williams 82. **remarks:** Rpsl-k Rsvl. Annual. Genetic Material. Seed.

PI 547835 to 547889-continued

- PI 547858 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L82-753. **pedigree:** L79-1178,Dt2 Rpm Rps1 x L80-5227,Dt2 Rsv1. **remarks:** Dt2 Rpm Rsv1. Annual. Genetic Material. Seed.
- PI 547859 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L82-1560. **pedigree:** L79-1178,Dt2 Rpm Rps1 x L79-1224,Dt2 Rps1-k. **remarks:** Dt2 Rpm Rps1-k. Annual. Genetic Material. Seed.
- PI 547860 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L82-1858. **pedigree:** L81-4352,Rps1-c Rps2 Rj2 x (L75-6141,Rpm Rps1 x L76-1988,Rps2 Rj2. **remarks:** Rpm Rps1-c Rps2 Rj2. Annual. Genetic Material. Seed.
- PI 547861 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L82-2045. **pedigree:** Williams(6) x PI 196172. **remarks:** dt1 Ti-c. Annual. Genetic Material. Seed.
- PI 547862 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-570. **pedigree:** Williams(6) x PI 86972-1. **remarks:** Rps3. Annual. Genetic Material. Seed.
- PI 547863 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-4483. **pedigree:** L79-1178,Dt2 Rpm Rps1 x L80-5227,Dt2 Rsv1. **remarks:** Dt2 Rpm Rps1 Rsv1. Annual. Genetic Material. Seed.
- PI 547864 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-4494. **pedigree:** L79-1178,Dt2 Rpm Rps1 x L80-5227,Dt2 Rsv1. **remarks:** Dt2 Rps1 Rsv1. Annual. Genetic Material. Seed.
- PI 547865 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-4527. **pedigree:** L79-1224,Dt2 Rps1-k x L80-5227,Dt2 Rsv1. **remarks:** Dt2 Rps1-k Rsv1. Annual. Genetic Material. Seed.
- PI 547866 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-4744. **pedigree:** L78-379,Rsv1 x L80-5493,Rpm Rps1-k. **remarks:** Rpm Rsv1. Annual. Genetic Material. Seed.

PI 547835 to 547889-continued

- PI 547867 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L83-4752. **pedigree:** L78-379,Rsv1 x L80-5493,Rpm Rps1-k. **remarks:** Rpm Rps1-k Rsv1. Annual. Genetic Material. Seed.
- PI 547868 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L84-2003. **pedigree:** mutation in Williams(6) x Jefferson found in 1982 at Urbana. **remarks:** i (not Ti-b). Annual. Genetic Material. Seed.
- PI 547869 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L84-2235. **pedigree:** Williams(6) x (Clark 63(2) x PI 86150). **remarks:** I. Annual. Genetic Material. Seed.
- PI 547870 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L84-2237. **pedigree:** Williams(6) x (Clark 63(2) x PI 86150). **remarks:** rmd. Annual. Genetic Material. Seed.
- PI 547871 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L85-2029. **pedigree:** Williams(6) x (Clark 63(2) x PI 86150). **remarks:** dtl. Annual. Genetic Material. Seed.
- PI 547872 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L85-2196. **pedigree:** Williams(6) x PI 229324. **remarks:** sun. Annual. Genetic Material. Seed.
- PI 547873 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L85-2308. **pedigree:** Williams(6) x Dorman. **remarks:** Rpv. Annual. Genetic Material. Seed.
- PI 547874 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L85-2352. **pedigree:** Williams(6) x PI 86050. **remarks:** Rps4. Annual. Genetic Material. Seed.
- PI 547875 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L85-2378. **pedigree:** Williams 82(6) x PI 200492. **remarks:** Rppl Rps1-k. Annual. Genetic Material. Seed.

PI 547835 to 547889-continued

- PI 547876 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L85-3059. **pedigree:** Williams(6) x PI 91160. **remarks:** Rps5. Annual. Genetic Material. Seed.
- PI 547877 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L86-1436. **pedigree:** Williams(6) x PI 408251. **remarks:** lxl. Annual. Genetic Material. Seed.
- PI 547878 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L86-1752. **pedigree:** Williams 82(6) x PI 230970. **remarks:** Rpp2 Rpsl-k. Annual. Genetic Material. Seed.
- PI 547879 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L87-0482. **pedigree:** Williams 82(6) x PI 459025. **remarks:** Rpp4 Rpsl-k. Annual. Genetic Material. Seed.
- PI 547880 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-5492. **pedigree:** mutant found in Williams in 1980 from a farm on Windsor Road, Champaign, Illinois. **remarks:** i. Annual. Genetic Material. Seed.
- PI 547881 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-5495. **pedigree:** mutant found in Williams(6) x Lee 68 in 1975 at Urbana (L75-3774). **remarks:** i Rpsl-c. Annual. Genetic Material. Seed.
- PI 547882 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-8012. **pedigree:** i-mutant selection from Williams(6) x PI 196172. **remarks:** dtl i Ti-c. Annual. Genetic Material. Seed.
- PI 547883 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-8025. **pedigree:** Williams(6) x PI 408251. **remarks:** dtl. Annual. Genetic Material. Seed.
- PI 547884 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-8226. **pedigree:** Williams(6) x PI 86972-1. **remarks:** rmd. Annual. Genetic Material. Seed.

PI 547835 to 547889-continued

PI 547885 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-8431. **pedigree:** Williams(6) x Raiden,PI 360844. **remarks:** Rsv2. Annual. Genetic Material. Seed.

PI 547886 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-8440. **pedigree:** Williams(6) x Raiden,PI 360844. **remarks:** r Rsv2. Annual. Genetic Material. Seed.

PI 547887 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-8488. **pedigree:** Williams 82,Rpsl-k x (Williams x L75-6125,Rpm Rpsl). **other id:** L80-5493. **remarks:** Rpm Rpsl-k. Annual. Genetic Material. Seed.

PI 547888 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-8502. **pedigree:** L75-6125,Rpm Rpsl x L77-1818,Rpsl-b hm. **remarks:** Rpm Rpsl-b hm. Annual. Genetic Material. Seed.

PI 547889 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L88-8739. **pedigree:** L79-1224,Dt2 Rpsl-k x (L79-1178,Dt2 Rpm Rpsl x L80-5230,Dt2 Rsv1). **remarks:** Dt2 Rpm Rpsl-k Rsv1. Annual. Genetic Material. Seed.

PI 547890. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1982.

origin: United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L77-1794. **pedigree:** Williams(7) x Kingwa. **other id:** Williams 82. **remarks:** Rpsl-k. Annual. Genetic Material. Seed.

PI 547891 to 547893. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS/Illinois Agric. Exp. Station, Department of Agronomy, University of Illinois, Urbana, Illinois, United States. Received 1975.

PI 547891 to 547893-continued

PI 547891 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L82-2020. **pedigree:** Williams(6) x Jefferson. **remarks:** Ti-b. Annual. Genetic Material. Seed.

PI 547892 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L82-2024. **pedigree:** Williams(6) x Jefferson. **other id:** GP-75. **source:** Crop Sci. 26(3):651 1986. **group:** CSR-SOYBEAN. **remarks:** rmd Ti-b. Annual. Genetic Material. Seed.

PI 547893 **origin:** United States. **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois. **cultivar:** L82-2051. **pedigree:** Williams(6) x PI 196172. **other id:** GP-76. **source:** Crop Sci. 26(3):651 1986. **group:** CSR-SOYBEAN. **remarks:** Ti-c. Annual. Genetic Material. Seed.

PI 547894. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Agricultural Research Service -- USDA, Nitrogen Fixation & Soybean Genetics Lab, BARC-West, Beltsville, Maryland, United States. Received 1989.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Nitrogen Fixation & Soybean Genetics Lab, BARC-West, Beltsville, Maryland 20705. **cultivar:** BARC-1. **pedigree:** L63-1889 (Clark(6) x T201) x T248. **other id:** GP-89. **source:** Crop Sci. 26(5):1091 1986. **group:** CSR-SOYBEAN. **remarks:** Homozygous for rj1 (nodulation restriction) to rhizobial strain I-110 ARS and f (fasciated stem). Standard for linkage group 11. Maturity range Group IV to VI. Purple flowers. Tawny pubescence. Annual. Breeding Material. Seed.

PI 547895 to 547896. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Agricultural Research Service -- USDA, Nitrogen Fixation & Soybean Genetics Lab, BARC-West, Beltsville, Maryland, United States. Received 1989.

PI 547895 to 547896-continued

PI 547895 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Nitrogen Fixation & Soybean Genetics Lab, BARC-West, Beltsville, Maryland 20705. **cultivar:** BARC-2. **pedigree:** Clark 63(8) x (Hill x Clark). **other id:** GP-90. **source:** Crop Sci. 26(6):1263 1986. **group:** CSR-SOYBEAN. **remarks:** Isogenic line for Rj4 (ineffective nodulation) to rhizobial strain USDA 61. Maturity Group IV. Similar to Clark 63 in appearance. Annual. Genetic Material. Seed.

PI 547896 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Nitrogen Fixation & Soybean Genetics Lab, BARC-West, Beltsville, Maryland 20705. **cultivar:** BARC-3. **pedigree:** Clark 63(8) x (Hill x Clark). **other id:** GP-91. **source:** Crop Sci. 26(6):1263 1986. **group:** CSR-SOYBEAN. **remarks:** Isogenic line for rj4 (effective nodulation) to rhizobial strain USDA 61. Maturity Group IV. Similar to Clark 63 in appearance. Annual. Genetic Material. Seed.

PI 547897 to 547899. *Trifolium ambiguum* M. Bieb. FABACEAE Kura clover

Donated by: Pederson, G.A., Agricultural Research Service -- USDA, CSRL, Forage Research Unit, Mississippi State, Mississippi, United States; and Mississippi Agr. and Forestry Exp. Sta.. **remarks:** MS-2X, MS-4X, and MS-6X Kura Clover Germplasm. Received February 28, 1991.

PI 547897 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, CSRL, Forage Research Unit, Mississippi State, Mississippi 39762-5367. **cultivar:** MS-2X. **pedigree:** Syn-2 seed produced from a synthetic of 35 diploid (16 chromosome) plants from 14 plant introductions and populations. **other id:** GP-98. **source:** Crop Sci. 31(6):1714 1991. **group:** CSR-OTHER LEGUMES. **remarks:** Rhizomatous root system. Field vigor and survival in field at Mississippi State of Syn-1 generation poor. Parent plants all resistant to clover yellow vein virus (CYVV) and peanut stunt virus (PSV). 38% resistant to southern root-knot nematode (*Meloidogyne incognita*). Perennial. Breeding Material. Seed.

PI 547897 to 547899-continued

PI 547898 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, CSRL, Forage Research Unit, Mississippi State, Mississippi 39762-5367. **cultivar:** MS-4X. **pedigree:** Syn-1 seed produced from 75 tetraploid (32 chromosome) plants from 31 plant introductions and populations. **other id:** GP-99. **source:** Crop Sci. 31(6):1714 1991. **group:** CSR-OTHER LEGUMES. **remarks:** Rhizomatous root system. Field vigor good. Survived 4 years in field at Mississippi State. Parent plants all resistant to clover yellow vein virus (CYVV) and peanut stunt virus (PSV). 19% resistant to southern root-knot nematode (*Meloidogyne incognita*). Perennial. Breeding Material. Seed.

PI 547899 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, CSRL, Forage Research Unit, Mississippi State, Mississippi 39762-5367. **cultivar:** MS-6X. **pedigree:** Syn-1 seed produced from 48 hexaploid (48 chromosome) plants from 23 plant introductions and populations. **other id:** GP-100. **source:** Crop Sci. 31(6):1714 1991. **group:** CSR-OTHER LEGUMES. **remarks:** Rhizomatous root system. Field vigor good. Survived 4 years in field at Mississippi State. Parent plants all resistant to clover yellow vein virus (CYVV) and peanut stunt virus (PSV). 15% resistant to southern root-knot nematode (*Meloidogyne incognita*). Perennial. Breeding Material. Seed.

PI 547900. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Tuleen, N.A., Texas Agr. Exp. Sta., Texas A&M University, College Station, Texas, United States. **remarks:** TX85C5820-5 Wheat Germplasm. Received February 28, 1991.

origin: United States. **origin institute:** Texas Agr. Exp. Sta., College Station, Texas 77843. **cultivar:** TX85C5820-5. **pedigree:** Short wheat/Scout, TX69A345-2*2//Insave F.A. Rye, A wheat-rye substitution line/3/2*TAM 105. **other id:** GP-331. **source:** Crop Sci. 32(1):289 1992. **group:** CSR-WHEAT. **remarks:** Short stature line. Homozygous for resistance to greenbug (*Schizaphis graminum*) biotypes B, C, E, G, and I. Susceptible to biotype F. Possesses 1AL.1RS translocation which conditions its greenbug resistance. This translocation is cytologically similar to Amigo but TX85C5820-5 is resistant to greenbug biotype E while Amigo is susceptible to biotype E. Susceptible to powdery mildew, to the. Winter Annual. Breeding Material. Seed.

PI 547901. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Van Sanford, D.A., Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky, United States. **remarks:** Verne Wheat. Received February 28, 1991.

origin: United States. **origin institute:** Kentucky Agr. Exp. Sta., Dept. of Agronomy, University of Kentucky, Lexington, Kentucky 40546-0091. **cultivar:** VERNE.
pedigree: Red Coat/Gaines/5/Taylor//Norin ID/Brevor/3/?/4/Oasis. **other id:** KY 83-38. **other id:** CV-764. **source:** Crop Sci. 31(5):1385 1991. **group:** CSR-WHEAT. **other id:** PVP 9200030. **source:** Pending.
group: PVPO. **remarks:** High yielding, tall soft red winter variety. Maturity midseason. Kernels large. Test weight high. Milling quality above average. Baking quality acceptable. Moderately resistant to powdery mildew (*Erysiphe graminis*), leaf blotch (*Mycosphaerella graminicola*), glume blotch (*Leptosphaeria nodorum*) and leaf rust (*Puccinia recondita*). Moderately susceptible to wheat spindle streak mosaic virus and all. Winter Annual. Cultivar. Seed.

PI 547902. *Hordeum vulgare* L. POACEAE Barley

Donated by: Van Sanford, D.A., Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky, United States. **remarks:** Schochoh Barley. Received February 28, 1991.

origin: United States. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, Dept. of Agronomy, Lexington, Kentucky 40546-0091. **cultivar:** SCHOCHOH.
pedigree: Harrison/3/Cebada Capa/Wong//Awnletted Hudson/4/Barsoy. **other id:** KY 79-44. **other id:** CV-226.
source: Crop Sci. 31(5):1381 1991. **group:** CSR-BARLEY.
remarks: Mid-tall, mid-late winter feed variety. Yield potential high. Winterhardiness excellent. Spikes 6-rowed, dense to midlong, fully awned, and erect until maturity. Kernels have white aleruone layer, moderately plump and slightly wrinkled, and long rachilla hairs. Test weight high. Straw strength good. Lodging resistance good. Susceptible to powdery mildew (*Erysiphe graminis*) and leaf rust (*Puccinia*). Winter Annual. Cultivar. Seed.

PI 547903. *Bromus inermis* Leyss. POACEAE Smooth brome grass

Donated by: Casler, M.D., Wisconsin Agr. Exp. Sta., University of Wisconsin-Madison, Madison, Wisconsin, United States. **remarks:** Badger Smooth Brome grass. Received February 28, 1991.

PI 547903-continued

origin: United States. **origin institute:** Wisconsin Agr. Exp. Sta., University of Wisconsin-Madison, Madison, Wisconsin 53706-1597. **cultivar:** BADGER. **pedigree:** Broad based germplasm pool. **other id:** CV-19. **group:** CSR-BROMEGRASS. **remarks:** Intermediate type with resistance to seedling damping-off (*Pythium* sp.) and brown leafspot (*Dreschlera bromi*) and high in vitro dry matter digestibility. Well-adapted to wide range of soil types and climates in north central and northeastern U.S. Excellent winterhardiness and persistence under either 3-cut hay or rotationally-grazed pasture management. Perennial. Cultivar. Seed.

PI 547904. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Nielsen, M.T., Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky, United States. Received February 28, 1991.

origin: United States. **origin institute:** Kentucky Agr. Exp. Sta., Dept. of Agronomy, University of Kentucky, Lexington, Kentucky 40545-0914. **cultivar:** KYBSS. **pedigree:** Original parents are: the burley tobacco cultivars KY 17, VA 509, VA 528, KY 9, KY 14, KY 15, and Burley 21; and the cigar tobacco Beinhart 1000-1. **other id:** GP-43. **source:** Crop Sci. 31(5):1396 1991. **group:** CSR-TOBACCO. **remarks:** Synthetic population from three cycles of phenotypic recurrent selection for resistance to black shank disease caused by *Phytophthora parasitica* var. *nicotianae*. The population is phenotypically burley tobacco (Type 31). Genes for resistance to tobacco mosaic virus, black root rot (*Thielaviopsis basicola*), wildfire (*Pseudomonas tobaci*), and Fusarium Wilt (*Fusarium oxysporum*) exist in the population. Spring Annual. Breeding Material. Seed.

PI 547905. *Trifolium medium* L. FABACEAE Zigzag clover

Donated by: Taylor, N.L., Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky, United States. **remarks:** Ky M-2 Zigzag Clover Germplasm. Received February 11, 1991.

PI 547905-continued

origin: United States. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky 40546-0091. **cultivar:** KY M-2. **pedigree:** Sixth cycle of phenotypic recurrent selection for first-year blooming. Base population was Ky M-1 zigzag clover germplasm. **other id:** GP-96. **source:** Crop Sci. 31(5):1395 1991. **group:** CSR-OTHER LEGUMES. **remarks:** Similar in all respects to Ky M-1 except higher first-year percent bloom (18 versus 66 in broadcast plots) and about 17 percent greater vigor in spaced plants but not different in broadcast plots. Perennial. Breeding Material. Seed.

PI 547906. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Caddel, J.L., Oklahoma Agr. Exp. Sta., Oklahoma State University, Stillwater, Oklahoma, United States. **remarks:** OK 49 Alfalfa. Received February 28, 1991.

origin: United States. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Stillwater, Oklahoma 74078-0507. **cultivar:** OK 49. **pedigree:** 94 plants from crosses of experimental lines selected through recurrent phenotypic selection for resistance to one or more of following: bacterial wilt, phytophthora root rot, fusarium wilt, spotted alfalfa aphid and blue alfalfa aphid. **other id:** CV-171. **source:** Crop Sci. 32(1):280 1992. **group:** CSR-ALFALFA. **remarks:** Moderately fall dormant. Flower color >99% purple and <1% variegated. Resistance to fusarium wilt. Moderate resistance to bacterial wilt, phytophthora root rot and anthracnose. Low resistance to biotypes of spotted alfalfa aphid and blue alfalfa aphid collected in Oklahoma. Susceptible to *Aphanomyces* root rot. Perennial. Cultivar. Seed.

PI 547907 to 548065. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Ren, Jianhua, Institute of Crop Germplasm Resource, Shanxi Academy of Agricultural Science, Taiyuan, Shanxi, China. **remarks:** Quarantine reference BE-3317. Received February 25, 1991.

PI 547907 **donor id:** 834. **origin:** China. **cultivar:** HUANG KE BANG ZI. **locality:** Da Tong. Annual. Cultivar. Seed.

PI 547908 **donor id:** 1973. **origin:** China. **cultivar:** BAI GAO LIANG. **locality:** Guang Ling. Annual. Cultivar. Seed.

PI 547909 **donor id:** 1981. **origin:** China. **cultivar:** BAI YING JIAO. **locality:** Dai Xian. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 547910 donor id: 1984. origin: China. cultivar: BAI YING GAO LIANG. locality: Dai Xian. Annual. Cultivar. Seed.
- PI 547911 donor id: 1985. origin: China. cultivar: BAI YING GAO LIANG. locality: Xiao Yi. Annual. Cultivar. Seed.
- PI 547912 donor id: 1987. origin: China. cultivar: BAI RUAN GAO LIANG. locality: Xing Xian. Annual. Cultivar. Seed.
- PI 547913 donor id: 1988. origin: China. cultivar: BAI RUAN GAO LIANG. locality: Xing Xian. Annual. Cultivar. Seed.
- PI 547914 donor id: 1989. origin: China. cultivar: BAI RUAN GAO LIANG. locality: Lin Xian. Annual. Cultivar. Seed.
- PI 547915 donor id: 1990. origin: China. cultivar: BAI RUAN GAO LIANG. locality: Lin Xian. Annual. Cultivar. Seed.
- PI 547916 donor id: 1991. origin: China. cultivar: BAI RUAN GAO LIANG. locality: Dai Xian. Annual. Cultivar. Seed.
- PI 547917 donor id: 1992. origin: China. cultivar: BAI RUAN GAO LIANG. locality: Jie Xiu. Annual. Cultivar. Seed.
- PI 547918 donor id: 1993. origin: China. cultivar: BAI RUAN GAO LIANG. locality: Yuan Ping. Annual. Cultivar. Seed.
- PI 547919 donor id: 1996. origin: China. cultivar: BAI LI GAO LIANG. locality: Zuo Quan. Annual. Cultivar. Seed.
- PI 547920 donor id: 1997. origin: China. cultivar: BAI BU HONG. locality: Ping Yao. Annual. Cultivar. Seed.
- PI 547921 donor id: 1998. origin: China. cultivar: BAI KE BAI RUAN GAO LIANG. locality: Qin Yuan. Annual. Cultivar. Seed.
- PI 547922 donor id: 1999. origin: China. cultivar: BAI PI TOU YING GAO LIANG. locality: Qin Shui. Annual. Cultivar. Seed.
- PI 547923 donor id: 2001. origin: China. cultivar: SI JI HUANG. locality: Ping Yao. Annual. Cultivar. Seed.
- PI 547924 donor id: 2004. origin: China. cultivar: BEN DI GAO LIANG. locality: Xi Yang. Annual. Cultivar. Seed.
- PI 547925 donor id: 2005. origin: China. cultivar: BEN DI RUAN GAO LIANG. locality: Lan Xian. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 547926 donor id: 2006. origin: China. cultivar: DA LUO CHUI.
locality: Tian Zhen. Annual. Cultivar. Seed.
- PI 547927 donor id: 2007. origin: China. cultivar: DA LUO CHUI.
locality: Fan Shi. Annual. Cultivar. Seed.
- PI 547928 donor id: 2008. origin: China. cultivar: DA LUO CHUI.
locality: Wu Tai. Annual. Cultivar. Seed.
- PI 547929 donor id: 2009. origin: China. cultivar: DA LUO CHUI.
locality: Yu Xian. Annual. Cultivar. Seed.
- PI 547930 donor id: 2011. origin: China. cultivar: DA LUO CHUI.
locality: Wu Tai. Annual. Cultivar. Seed.
- PI 547931 donor id: 2015. origin: China. cultivar: PING YANG GE
TU GAO LIANG. locality: Li Shi. Annual. Cultivar.
Seed.
- PI 547932 donor id: 2016. origin: China. cultivar: PU XIE SUI.
locality: Yu Ci. Annual. Cultivar. Seed.
- PI 547933 donor id: 2017. origin: China. cultivar: DONG FANG
HONG. locality: Wu Tai. Annual. Cultivar. Seed.
- PI 547934 donor id: 2020. origin: China. cultivar: HONG GAO
LIANG. locality: Yang Gao. Annual. Cultivar. Seed.
- PI 547935 donor id: 2021. origin: China. cultivar: HONG GAO
LIANG. locality: Yang Gao. Annual. Cultivar. Seed.
- PI 547936 donor id: 2022. origin: China. cultivar: HONG GAO
LIANG. locality: He Qu. Annual. Cultivar. Seed.
- PI 547937 donor id: 2023. origin: China. cultivar: HONG GAO
LIANG. locality: Sheng Chi. Annual. Cultivar. Seed.
- PI 547938 donor id: 2025. origin: China. cultivar: HONG GAO
LIANG. locality: Lu Liang. Annual. Cultivar. Seed.
- PI 547939 donor id: 2026. origin: China. cultivar: HONG GAO
LIANG. locality: Ping Yao. Annual. Cultivar. Seed.
- PI 547940 donor id: 2028. origin: China. cultivar: HONG GAO
LIANG. locality: Zuo Quan. Annual. Cultivar. Seed.
- PI 547941 donor id: 2035. origin: China. cultivar: HONG KE GAO
LIANG. locality: Li Shi. Annual. Cultivar. Seed.
- PI 547942 donor id: 2037. origin: China. cultivar: HONG KE GAO
LIANG. locality: Xi Yang. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 547943 donor id: 2039. origin: China. cultivar: HONG KE GAO LIANG. locality: Xi Yang. Annual. Cultivar. Seed.
- PI 547944 donor id: 2043. origin: China. cultivar: HONG KE ER JIAO. locality: Qi Xian. Annual. Cultivar. Seed.
- PI 547945 donor id: 2045. origin: China. cultivar: HONG KE JIAO. locality: Tai Gu. Annual. Cultivar. Seed.
- PI 547946 donor id: 2047. origin: China. cultivar: HONG KE ZI. locality: Yu Ci. Annual. Cultivar. Seed.
- PI 547947 donor id: 2052. origin: China. cultivar: HONG KE HUANG GAO LIANG. locality: Yang Qu. Annual. Cultivar. Seed.
- PI 547948 donor id: 2053. origin: China. cultivar: HONG RUAN GAO LIANG. locality: Dai Xian. Annual. Cultivar. Seed.
- PI 547949 donor id: 2054. origin: China. cultivar: HONG RUAN GAO LIANG. locality: Fan Shi. Annual. Cultivar. Seed.
- PI 547950 donor id: 2055. origin: China. cultivar: HONG RUAN GAO LIANG. locality: Yu She. Annual. Cultivar. Seed.
- PI 547951 donor id: 2057. origin: China. cultivar: HONG NIAN GAO LIANG. locality: Zuo Quan. Annual. Cultivar. Seed.
- PI 547952 donor id: 2060. origin: China. cultivar: HONG GAN NIAN GAO LIANG. locality: Ling Qiu. Annual. Cultivar. Seed.
- PI 547953 donor id: 2061. origin: China. cultivar: HONG ZHA SHA JIAO. locality: Ding Xiang. Annual. Cultivar. Seed.
- PI 547954 donor id: 2062. origin: China. cultivar: HONG LANG WEI. locality: Yuan Ping. Annual. Cultivar. Seed.
- PI 547955 donor id: 2063. origin: China. cultivar: HONG KE NIU XING. locality: Ding Xiang. Annual. Cultivar. Seed.
- PI 547956 donor id: 2064. origin: China. cultivar: HONG NIU XING. locality: Xin Xian. Annual. Cultivar. Seed.
- PI 547957 donor id: 2065. origin: China. cultivar: HONG GAN GAO LIANG. locality: Zuo Quan. Annual. Cultivar. Seed.
- PI 547958 donor id: 2066. origin: China. cultivar: HONG LUO SHAN. locality: Ling Qiu. Annual. Cultivar. Seed.
- PI 547959 donor id: 2067. origin: China. cultivar: HONG DA SHI. locality: Yu Ci. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 547960 donor id: 2068. origin: China. cultivar: HONG KE GE TA SUI. locality: Jie Xiu. Annual. Cultivar. Seed.
- PI 547961 donor id: 2070. origin: China. cultivar: GE TA SUI. locality: Tai Yuan. Annual. Cultivar. Seed.
- PI 547962 donor id: 2072. origin: China. cultivar: GE TA SUI. locality: Yu Ci. Annual. Cultivar. Seed.
- PI 547963 donor id: 2073. origin: China. cultivar: GE TA SUI. locality: Yu Ci. Annual. Cultivar. Seed.
- PI 547964 donor id: 2074. origin: China. cultivar: GE TA SUI. locality: Qi Xian. Annual. Cultivar. Seed.
- PI 547965 donor id: 2078. origin: China. cultivar: GE TA JIAO. locality: Xin Xian. Annual. Cultivar. Seed.
- PI 547966 donor id: 2079. origin: China. cultivar: GE TA HONG. locality: Tian Zhen. Annual. Cultivar. Seed.
- PI 547967 donor id: 2092. origin: China. cultivar: ZHU YE QING. locality: Yang Qu. Annual. Cultivar. Seed.
- PI 547968 donor id: 2100. origin: China. cultivar: GUAN DONG. locality: Ping Yao. Annual. Cultivar. Seed.
- PI 547969 donor id: 2102. origin: China. cultivar: MI JIAO. locality: Fan Shi. Annual. Cultivar. Seed.
- PI 547970 donor id: 2103. origin: China. cultivar: MI HUANG JIAO. locality: Ping Lu. Annual. Cultivar. Seed.
- PI 547971 donor id: 2104. origin: China. cultivar: MI ER JIAO. locality: Shan Yin. Annual. Cultivar. Seed.
- PI 547972 donor id: 2105. origin: China. cultivar: MI HUANG GAO LIANG. locality: Sheng Chi. Annual. Cultivar. Seed.
- PI 547973 donor id: 2106. origin: China. cultivar: MI MI GAO LIANG. locality: He Qu. Annual. Cultivar. Seed.
- PI 547974 donor id: 2107. origin: China. cultivar: DENG LONG HONG. locality: Xin Xian. Annual. Cultivar. Seed.
- PI 547975 donor id: 2108. origin: China. cultivar: DENG LONG HONG. locality: Xin Xian. Annual. Cultivar. Seed.
- PI 547976 donor id: 2109. origin: China. cultivar: LAO LAI HONG. locality: Yuan Ping. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 547977 donor id: 2143. origin: China. cultivar: DI GAO LIANG.
locality: Ling Chuan. Annual. Cultivar. Seed.
- PI 547978 donor id: 2227. origin: China. cultivar: LI SHI HUANG.
locality: Yu Ci. Annual. Cultivar. Seed.
- PI 547979 donor id: 2250. origin: China. cultivar: LANG WEI BA
GAO LIANG. locality: Zuo Quan. Annual. Cultivar.
Seed.
- PI 547980 donor id: 2252. origin: China. cultivar: LANG WEI BA
CHUI. locality: Yang Quan. Annual. Cultivar. Seed.
- PI 547981 donor id: 2253. origin: China. cultivar: TIE GAN QI.
locality: Xin Xian. Annual. Cultivar. Seed.
- PI 547982 donor id: 2256. origin: China. cultivar: TIE SHA MAO.
locality: Xiang Yuan. Annual. Cultivar. Seed.
- PI 547983 donor id: 2257. origin: China. cultivar: TIE SHA MAO.
locality: Chang Zhi. Annual. Cultivar. Seed.
- PI 547984 donor id: 2258. origin: China. cultivar: TIE SHA MAO.
locality: Ling Shi. Annual. Cultivar. Seed.
- PI 547985 donor id: 2259. origin: China. cultivar: TIE GAN JIAO
ZI. locality: Xin Xian. Annual. Cultivar. Seed.
- PI 547986 donor id: 2260. origin: China. cultivar: TIE JIAO ZI.
locality: Tun Liu. Annual. Cultivar. Seed.
- PI 547987 donor id: 2261. origin: China. cultivar: E ER HUANG.
locality: Yu Ci. Annual. Cultivar. Seed.
- PI 547988 donor id: 2262. origin: China. cultivar: E ER HUANG.
locality: Shou Yang. Annual. Cultivar. Seed.
- PI 547989 donor id: 2268. origin: China. cultivar: JIN SUI GAO
LIANG. locality: Ding Xiang. Annual. Cultivar. Seed.
- PI 547990 donor id: 2270. origin: China. cultivar: JIN SUI NIAN
GAO LIANG. locality: Wu Tai. Annual. Cultivar. Seed.
- PI 547991 donor id: 2271. origin: China. cultivar: DAO ZAI TOU.
locality: Yang Gao. Annual. Cultivar. Seed.
- PI 547992 donor id: 2273. origin: China. cultivar: KUAN ER TONG.
locality: Shan Ying. Annual. Cultivar. Seed.
- PI 547993 donor id: 2274. origin: China. cultivar: FEN TOU BAI.
locality: Tian Zhen. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 547994 donor id: 2275. origin: China. cultivar: LIAN TOU SAN.
locality: Tai Gu. Annual. Cultivar. Seed.
- PI 547995 donor id: 2278. origin: China. cultivar: JING 7384.
locality: Da Tong. Annual. Cultivar. Seed.
- PI 547996 donor id: 2279. origin: China. cultivar: JING 4198.
locality: Ding Xiang. Annual. Cultivar. Seed.
- PI 547997 donor id: 2281. origin: China. cultivar: GAO PING GAO
LIANG. locality: Yu Ci. Annual. Cultivar. Seed.
- PI 547998 donor id: 2288. origin: China. cultivar: GAO LIANG.
locality: Zuo Quan. Annual. Cultivar. Seed.
- PI 547999 donor id: 2289. origin: China. cultivar: GAO LIANG.
locality: He Shun. Annual. Cultivar. Seed.
- PI 548000 donor id: 2292. origin: China. cultivar: GAO LIANG.
locality: Ping Ding. Annual. Cultivar. Seed.
- PI 548001 donor id: 2300. origin: China. cultivar: HUANG GAO
LIANG. locality: Zuo Quan. Annual. Cultivar. Seed.
- PI 548002 donor id: 2301. origin: China. cultivar: HUANG GAO
LIANG. locality: Xing Xian. Annual. Cultivar. Seed.
- PI 548003 donor id: 2302. origin: China. cultivar: HUANG GAO
LIANG. locality: Guang Ling. Annual. Cultivar. Seed.
- PI 548004 donor id: 2305. origin: China. cultivar: HUANG JIAO ZI.
locality: Wu Tai. Annual. Cultivar. Seed.
- PI 548005 donor id: 2306. origin: China. cultivar: HUANG PI GAO
LIANG. locality: Liu Lin. Annual. Cultivar. Seed.
- PI 548006 donor id: 2307. origin: China. cultivar: HUANG PI GAO
LIANG. locality: Zhong Yang. Annual. Cultivar. Seed.
- PI 548007 donor id: 2308. origin: China. cultivar: HUANG KE GAO
LIANG. locality: Xi Yang. Annual. Cultivar. Seed.
- PI 548008 donor id: 2310. origin: China. cultivar: HUANG KE JIAO.
locality: Wu Xiang. Annual. Cultivar. Seed.
- PI 548009 donor id: 2311. origin: China. cultivar: HUANG KE BAI
GAO LIANG. locality: Ping Shun. Annual. Cultivar.
Seed.
- PI 548010 donor id: 2313. origin: China. cultivar: HUANG JING
JIAO ZI. locality: Dai Xian. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 548011 donor id: 2314. origin: China. cultivar: HUANG JING
JIAO RUAN GAO LIANG. locality: Lin Xian. Annual.
Cultivar. Seed.
- PI 548012 donor id: 2316. origin: China. cultivar: HUANG LUO SAN.
locality: Gao Ping. Annual. Cultivar. Seed.
- PI 548013 donor id: 2317. origin: China. cultivar: HUANG LUO SAN.
locality: Wu Xiang. Annual. Cultivar. Seed.
- PI 548014 donor id: 2319. origin: China. cultivar: HUANG LUO
MIAN. locality: Gao Ping. Annual. Cultivar. Seed.
- PI 548015 donor id: 2320. origin: China. cultivar: HUANG GE TA.
locality: Ding Xiang. Annual. Cultivar. Seed.
- PI 548016 donor id: 2321. origin: China. cultivar: HUANG GE TA.
locality: Ding Xiang. Annual. Cultivar. Seed.
- PI 548017 donor id: 2322. origin: China. cultivar: HUANG GE TA
CHUI. locality: Da Tong. Annual. Cultivar. Seed.
- PI 548018 donor id: 2323. origin: China. cultivar: HUANG E ER
JIAO. locality: Tai Gu. Annual. Cultivar. Seed.
- PI 548019 donor id: 2324. origin: China. cultivar: HUANG E ER
JIAO. locality: Tai Gu. Annual. Cultivar. Seed.
- PI 548020 donor id: 2325. origin: China. cultivar: HUANG E JIAO.
locality: Xin Xian. Annual. Cultivar. Seed.
- PI 548021 donor id: 2326. origin: China. cultivar: HUANG LIANG
ZE. locality: Qin Yuan. Annual. Cultivar. Seed.
- PI 548022 donor id: 2328. origin: China. cultivar: HUANG LANG
WEI. locality: Yuan Ping. Annual. Cultivar. Seed.
- PI 548023 donor id: 2330. origin: China. cultivar: HUANG MI NIAN
JIAO. locality: Wu Tai. Annual. Cultivar. Seed.
- PI 548024 donor id: 2331. origin: China. cultivar: HUANG MI NIAN
JIAO. locality: Wu Tai. Annual. Cultivar. Seed.
- PI 548025 donor id: 2334. origin: China. cultivar: GE ZI WO.
locality: Jie Xiu. Annual. Cultivar. Seed.
- PI 548026 donor id: 2335. origin: China. cultivar: GE ZI WO.
locality: Yuan Ping. Annual. Cultivar. Seed.
- PI 548027 donor id: 2343. origin: China. cultivar: NIAN JIAO.
locality: Wu Tai. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 548028 donor id: 2344. origin: China. cultivar: NIAN JIAO ZI.
locality: Wu Tai. Annual. Cultivar. Seed.
- PI 548029 donor id: 2346. origin: China. cultivar: NIAN GAO
LIANG. locality: Wu Tai. Annual. Cultivar. Seed.
- PI 548030 donor id: 2347. origin: China. cultivar: TONG CHUI GAO
LIANG. locality: Shuo Xian. Annual. Cultivar. Seed.
- PI 548031 donor id: 2348. origin: China. cultivar: YIN GAO LIANG.
locality: Ling Chuan. Annual. Cultivar. Seed.
- PI 548032 donor id: 2349. origin: China. cultivar: TIAN JIAO ZI.
locality: Tun Liu. Annual. Cultivar. Seed.
- PI 548033 donor id: 2350. origin: China. cultivar: TIAN GAN JIAO.
locality: Wu Xiang. Annual. Cultivar. Seed.
- PI 548034 donor id: 2351. origin: China. cultivar: PAN TUO GAO
LIANG. locality: Qi Xian. Annual. Cultivar. Seed.
- PI 548035 donor id: 2354. origin: China. cultivar: PAN TUO ZAO.
locality: Shan Xi. Annual. Cultivar. Seed.
- PI 548036 donor id: 2361. origin: China. cultivar: DUAN SAN CHI.
locality: Pian Guan. Annual. Cultivar. Seed.
- PI 548037 donor id: 2362. origin: China. cultivar: HEI KE JIAO.
locality: Yu Ci. Annual. Cultivar. Seed.
- PI 548038 donor id: 2364. origin: China. cultivar: HEI KE GAO
LIANG. locality: Zhong Yang. Annual. Cultivar. Seed.
- PI 548039 donor id: 2365. origin: China. cultivar: HEI KE GAO
LIANG. locality: Ping Ding. Annual. Cultivar. Seed.
- PI 548040 donor id: 2366. origin: China. cultivar: HEI KE.
locality: Xi Yang. Annual. Cultivar. Seed.
- PI 548041 donor id: 2370. origin: China. cultivar: HEI KE ZI PI
TOU. locality: Wu Tai. Annual. Cultivar. Seed.
- PI 548042 donor id: 2371. origin: China. cultivar: HEI KE SHE YAN
HONG. locality: Da Tong. Annual. Cultivar. Seed.
- PI 548043 donor id: 2372. origin: China. cultivar: HEI KE HONG
GAO LIANG. locality: Tian Zhen. Annual. Cultivar.
Seed.
- PI 548044 donor id: 2373. origin: China. cultivar: HEI KE SHUANG
NIU XING. locality: Huai Ren. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 548045 donor id: 2374. origin: China. cultivar: HEI KE ZHENG
YAN SAN. locality: Ling Shi. Annual. Cultivar. Seed.
- PI 548046 donor id: 2378. origin: China. cultivar: HEI JIAO CAO.
locality: Zuo Quan. Annual. Cultivar. Seed.
- PI 548047 donor id: 2380. origin: China. cultivar: HEI JIAO.
locality: Yuan Ping. Annual. Cultivar. Seed.
- PI 548048 donor id: 2381. origin: China. cultivar: HEI JIAO CHAO.
locality: Zuo Quan. Annual. Cultivar. Seed.
- PI 548049 donor id: 2382. origin: China. cultivar: HEI KU JIAO.
locality: Shuo Xian. Annual. Cultivar. Seed.
- PI 548050 donor id: 2383. origin: China. cultivar: HEI MAO JIAO.
locality: Dai Xian. Annual. Cultivar. Seed.
- PI 548051 donor id: 2384. origin: China. cultivar: HEI PI BAI GAO
LIANG. locality: Gao Ping. Annual. Cultivar. Seed.
- PI 548052 donor id: 2385. origin: China. cultivar: HEI DA WANG
GAO LIANG. locality: Xing Xian. Annual. Cultivar.
Seed.
- PI 548053 donor id: 2386. origin: China. cultivar: HEI LANG WEI.
locality: Wu Tai. Annual. Cultivar. Seed.
- PI 548054 donor id: 2387. origin: China. cultivar: HEI PI TOU.
locality: Ding Xiang. Annual. Cultivar. Seed.
- PI 548055 donor id: 2388. origin: China. cultivar: HEI SHI HUA.
locality: Yu Ci. Annual. Cultivar. Seed.
- PI 548056 donor id: 2394. origin: China. cultivar: LIU HUANG
JIAO. locality: Ping Ding. Annual. Cultivar. Seed.
- PI 548057 donor id: 2396. origin: China. cultivar: LIU HUANG GAO
LIANG. locality: Ping Ding. Annual. Cultivar. Seed.
- PI 548058 donor id: 2398. origin: China. cultivar: HOU SE GAO
LIANG. locality: Feng Yang. Annual. Cultivar. Seed.
- PI 548059 donor id: 2399. origin: China. cultivar: XI QUE BAI.
locality: Yang Gao. Annual. Cultivar. Seed.
- PI 548060 donor id: 2400. origin: China. cultivar: XI QUE WEI.
locality: Ling Qiu. Annual. Cultivar. Seed.
- PI 548061 donor id: 2401. origin: China. cultivar: LUO CHUI SUI.
locality: He Shun. Annual. Cultivar. Seed.

PI 547907 to 548065-continued

- PI 548062 **donor id:** 2403. **origin:** China. **cultivar:** YU PI HUANG.
locality: Yang Qu. Annual. Cultivar. Seed.
- PI 548063 **donor id:** 2404. **origin:** China. **cultivar:** YU PI HUANG.
locality: Yang Qu. Annual. Cultivar. Seed.
- PI 548064 **donor id:** 2405. **origin:** China. **cultivar:** YU CI GAO
LIANG. **locality:** Ping Ding. Annual. Cultivar. Seed.
- PI 548065 **donor id:** 2406. **origin:** China. **cultivar:** XING XI ZANG.
locality: Yuan Ping. Annual. Cultivar. Seed.

PI 548066. *Paspalum dilatatum* var. *pauciciliatum* L. Parodi POACEAE

Donated by: Burton, G.W., Agricultural Research Service -- USDA,
Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States; and
Georgia Agr. Exp. Sta.. **remarks:** Prostrate Dallisgrass Germplasm
#1. Received February 11, 1991.

origin: United States. **origin institute:** Agricultural
Research Service -- USDA, Georgia Coastal Plain Exp.
Sta., Tifton, Georgia 31793. **cultivar:** PROSTRATE
DALLISGRASS GERMPASM #1. **other id:** GP-58. **source:** Crop
Sci. 31(5):1392 1991. **group:** CSR-OTHER GRASSES.
remarks: Decumbent perennial more persistent, more
productive and more resistant to foliage diseases than
the common type. Florets smaller, more elongated with
fewer cilia. More susceptible to ergot caused by
Claviceps paspali. Pollen appears to contain many normal
grains and is able to stimulate its own seed formation.
Consistently produces more forage and resisted weed
invasion better. Breeding Material. Seed.

PI 548067. *Cicer arietinum* L. FABACEAE Chickpea

Donated by: Singh, Onkar, ICRISAT, Patancheru P.O., Andhra Pradesh,
India. **remarks:** ICCV 6 Chickpea. Received March 29, 1991.

PI 548067-continued

origin: India. **origin institute:** ICRISAT, Patancheru P.O., Andhra Pradesh 502 324. **cultivar:** ICCV 6. **pedigree:** 'L 550' (ICC 4973) X 'L 2' (ICC 4965). **other id:** CV-89. **source:** Crop Sci. 31(5):1379 1991. **group:** CSR-OTHER LEGUMES. **other id:** ICCX 7385-15-1-1H-1P-BP. **other id:** ICC 32. **remarks:** Semi-erect, 45-80 cm., kabuli type with basal branching. Anthocyanless, leaves compound. Flowers white, anthesis 60-70 days in central India. Maturity 130-170 days. Resistant to races 1 and 4 of *Fusarium oxysporum* f.sp. *ciceri*, tolerant to *Helicoverpa* pod borer and less susceptible to soil salinity, frost and lodging than L 550. High nodulating capacity, good yields in irrigated and. Annual. Cultivar. Seed.

PI 548068 to 548071. *Oryza glaberrima* Steud. POACEAE

Donated by: Chang, Dr. T. T., International Rice Research Institute, P. O. Box 307, Manila, Luzon, Philippines. Received January 04, 1990.

PI 548068 **origin:** Burkina. **cultivar:** HG 24. **other id:** 0951. **other id:** IRR103469. **other id:** F 106. Perennial. Seed.

PI 548069 **origin:** Mali. **cultivar:** IG 10. **other id:** 0951. **other id:** IRR103477. **other id:** F 107. Perennial. Seed.

PI 548070 **origin:** Mali. **cultivar:** MG 13. **other id:** 0951. **other id:** IRR103545. **other id:** F 108. Perennial. Seed.

PI 548071 **origin:** Senegal. **cultivar:** OG 17. **other id:** 0951. **other id:** IRR103571. **other id:** F 109. Perennial. Seed.

PI 548072 to 548157. Small Grains

Donated by: Nagy, Miklos, I.P.P.Q., Research Center for Agrobotany, H-2766, Taposzele, Hungary. Received 1989.

* PI 548072 *Avena sativa* L. POACEAE Oat
origin: Hungary. **cultivar:** ALSOVADASZI. **collector id:** No. 89. Annual. Cultivar. Seed.

* PI 548073 *Avena sativa* L. POACEAE Oat
origin: Hungary. **cultivar:** ANARCSI. **collector id:** No. 90. Annual. Cultivar. Seed.

PI 548072 to 548157-continued

- * PI 548074 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: BAKONYALJA. collector id:
No. 91. Annual. Cultivar. Seed.
- * PI 548075 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: BALATONFOKAJARI. collector
id: I-6-1369. Annual. Cultivar. Seed.
- * PI 548076 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: BALATONMOGYORODI. collector
id: I-6-1321. Annual. Cultivar. Seed.
- * PI 548077 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: BUKI. collector id:
I-6-1324. Annual. Cultivar. Seed.
- * PI 548078 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: CSENYETEI. collector id: No.
97. Annual. Cultivar. Seed.
- * PI 548079 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: DREGELYPALANKI II. collector
id: I-6-1318. Annual. Cultivar. Seed.
- * PI 548080 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: GAMASI. collector id:
I-6-1329. Annual. Cultivar. Seed.
- * PI 548081 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: GK 3. collector id: No. 101.
Annual. Cultivar. Seed.
- * PI 548082 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: KARCAGI. collector id:
I-6-5. Annual. Cultivar. Seed.
- * PI 548083 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: KECSKEMETI. collector id:
I-6-1317. Annual. Cultivar. Seed.
- * PI 548084 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: LOVASZPATONAI FEHER.
collector id: I-6-326. Annual. Cultivar. Seed.
- * PI 548085 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: MOCSAI. collector id: No.
112. Annual. Cultivar. Seed.
- * PI 548086 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: NAGYATADI. collector id:
I-6-1316. Annual. Cultivar. Seed.

PI 548072 to 548157-continued

- * PI 548087 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: POCSPETRI. collector id:
I-6-1326. Annual. Cultivar. Seed.
- * PI 548088 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: PUSPOKI. collector id:
I-6-1313. Annual. Cultivar. Seed.
- * PI 548089 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: TAPLANSZENTKERESZTI.
collector id: I-6-981. Annual. Cultivar. Seed.
- * PI 548090 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: TUNYOGI. collector id:
I-6-1350. Annual. Cultivar. Seed.
- * PI 548091 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: UJSZEGEDI. collector id:
I-6-982. Annual. Cultivar. Seed.
- * PI 548092 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: ZALAHASHAGYI. collector id:
I-6-230. Annual. Cultivar. Seed.
- * PI 548093 Avena sativa L. POACEAE Oat
origin: Hungary. cultivar: ZALALOVOI. collector id:
I-6-255. Annual. Cultivar. Seed.
- * PI 548094 Hordeum vulgare L. POACEAE Barley
origin: Hungary. cultivar: DREGELYPALANKI. collector
id: I-2-1012. Annual. Cultivar. Seed.
- * PI 548095 Hordeum vulgare L. POACEAE Barley
origin: Hungary. cultivar: GK 58. collector id:
I-4-4029. Annual. Cultivar. Seed.
- * PI 548096 Hordeum vulgare L. POACEAE Barley
origin: Hungary. cultivar: GK 59. collector id:
I-4-4070. Annual. Cultivar. Seed.
- * PI 548097 Hordeum vulgare L. POACEAE Barley
origin: Hungary. cultivar: HORPACSI 57. collector id:
I-4-3015. Annual. Cultivar. Seed.
- * PI 548098 Hordeum vulgare L. POACEAE Barley
origin: Hungary. cultivar: HORPACSI KETSOROS. collector
id: I-4-3157-4. Annual. Cultivar. Seed.
- * PI 548099 Hordeum vulgare L. POACEAE Barley
origin: Hungary. origin institute: Martonvasari.
cultivar: MARTONVASARI 34. collector id: I-4-4017.
Annual. Cultivar. Seed.

PI 548072 to 548157-continued

- * PI 548100 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. origin institute: Martonvasari.
cultivar: MARTONVASARI 37. collector id: No. 852.
Annual. Cultivar. Seed.
- * PI 548101 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. origin institute: Martonvasari.
cultivar: MARTONVASARI 38. collector id: I-4-4071.
Annual. Cultivar. Seed.
- * PI 548102 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. origin institute: Martonvasari.
cultivar: MARTONVASARI 39. collector id: I-4-4072.
Annual. Cultivar. Seed.
- * PI 548103 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. origin institute: Martonvasari.
cultivar: MARTONVASARI 41. collector id: I-2-2073.
Annual. Cultivar. Seed.
- * PI 548104 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. origin institute: Martonvasari.
cultivar: MARTONVASARI 43. collector id: I-4-4065/2.
Annual. Cultivar. Seed.
- * PI 548105 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. cultivar: MESTERHAZI 153. collector
id: I-2-302. Annual. Cultivar. Seed.
- * PI 548106 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. origin institute: Martonvasari.
cultivar: MFB 101. pedigree: selection from Opavsky
barley. collector id: I-2-11. Annual. Cultivar. Seed.
- * PI 548107 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. origin institute: Martonvasari.
cultivar: MFB 104. pedigree: Dioszegi 496/Dioszegi
738//Drexer. collector id: I-2-13. Annual. Cultivar.
Seed.
- * PI 548108 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. cultivar: OROSHAZAI. collector id:
I-4-1955. Annual. Landrace. Seed.
- * PI 548109 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. cultivar: SANDORFALVAI. collector id:
I-2-320. Annual. Landrace. Seed.
- * PI 548110 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. cultivar: TAPIOSULYI. collector id:
I-4-770. Annual. Cultivar. Seed.

PI 548072 to 548157-continued

- * PI 548111 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. **cultivar:** TARNASZENTANDRASI. **collector id:** I-2-1047. Annual. Landrace. Seed.
- * PI 548112 *Hordeum vulgare* L. POACEAE Barley
origin: Hungary. **cultivar:** TIMARI. **collector id:** I-2-1034. Annual. Landrace. Seed.
- * PI 548113 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** BALATONLELLI. **collector id:** I-1-5016. Annual. Cultivar. Seed.
- * PI 548114 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** BALATONMAGYARODI. **collector id:** I-1-5042. Annual. Cultivar. Seed.
- * PI 548115 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** CSERKESZTOMAJI. **collector id:** I-1-5065. Annual. Cultivar. Seed.
- * PI 548116 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** DREGELYPALANKI. **collector id:** I-1-5041. Annual. Cultivar. Seed.
- * PI 548117 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** ECSI. **collector id:** I-1-5080. Annual. Cultivar. Seed.
- * PI 548118 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** ECSI 3. **collector id:** I-1-5082. Annual. Cultivar. Seed.
- * PI 548119 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** ERPATAKI. **collector id:** I-1-5023. Annual. Cultivar. Seed.
- * PI 548120 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** GENCSAPATI. **collector id:** I-1-5047. Annual. Cultivar. Seed.
- * PI 548121 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** GESZTI. **collector id:** I-1-5044. Annual. Cultivar. Seed.
- * PI 548122 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** GYONGYOSTARJANI. **collector id:** I-1-5087. Annual. Cultivar. Seed.
- * PI 548123 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** GYONGYOSTARJANI 3. **collector id:** I-1-5089. Annual. Cultivar. Seed.

PI 548072 to 548157-continued

- * PI 548124 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: HAROMFAI. collector id:
I-1-5025. Annual. Cultivar. Seed.
- * PI 548125 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: HOMOKSZENTGYORGYI. collector
id: I-1-2681. Annual. Cultivar. Seed.
- * PI 548126 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: HORPACSI 457. collector id:
I-1-5663. Annual. Cultivar. Seed.
- * PI 548127 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: KARTALI. collector id:
I-1-5101. Annual. Cultivar. Seed.
- * PI 548128 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: KERTAI. collector id:
I-1-5107. Annual. Cultivar. Seed.
- * PI 548129 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: KISZOMBORI 2. collector id:
I-1-368. Annual. Cultivar. Seed.
- * PI 548130 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: KOMADI 2. collector id:
I-1-5052. Annual. Cultivar. Seed.
- * PI 548131 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: KOMADI 3. collector id:
I-1-5053. Annual. Cultivar. Seed.
- * PI 548132 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: LATRANYI. collector id:
I-1-5017. Annual. Cultivar. Seed.
- * PI 548133 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: MADOCSEI. collector id:
I-1-5063. Annual. Cultivar. Seed.
- * PI 548134 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: MARCALTOI. collector id:
I-1-5095. Annual. Cultivar. Seed.
- * PI 548135 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: MARTONVASARI. collector id:
I-1-5102. Annual. Cultivar. Seed.
- * PI 548136 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: MARTONVASARI 3. collector
id: I-1-8468. Annual. Cultivar. Seed.

PI 548072 to 548157-continued

- * PI 548137 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: MARTONVASARI 4. collector
id: I-1-9338-6. Annual. Cultivar. Seed.
- * PI 548138 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: MV. 2065/81. collector id:
I-1-11009-2. Annual. Cultivar. Seed.
- * PI 548139 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: MV. C. 33. collector id:
I-1-5952. Annual. Cultivar. Seed.
- * PI 548140 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: NAGYBAKONAKI 1. collector
id: I-1-5005. Annual. Cultivar. Seed.
- * PI 548141 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: NAGYBAKONAKI 2. collector
id: I-1-5006. Annual. Cultivar. Seed.
- * PI 548142 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: NAGYBAKONAKI 3. collector
id: I-1-5007. Annual. Cultivar. Seed.
- * PI 548143 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: NAGYKALLOI 1. collector id:
I-1-5068. Annual. Cultivar. Seed.
- * PI 548144 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: NAGYKALLOI 2. collector id:
I-1-5069. Annual. Cultivar. Seed.
- * PI 548145 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: NAGYKALLOI 3. collector id:
I-1-5070. Annual. Cultivar. Seed.
- * PI 548146 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: NAGYKALLOI 4. collector id:
I-1-5071. Annual. Cultivar. Seed.
- * PI 548147 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: PALHAZAI. collector id:
I-1-5050. Annual. Cultivar. Seed.
- * PI 548148 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: RAVAZDI 3. collector id:
I-1-5075. Annual. Cultivar. Seed.
- * PI 548149 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. cultivar: RAVAZDI 4. collector id:
I-1-5076. Annual. Cultivar. Seed.

PI 548072 to 548157-continued

- * PI 548150 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** RAZZA 904 X MARA F5.
collector id: I-1-6417. Annual. Cultivar. Seed.
- * PI 548151 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** SZALASZENDI. **collector id:**
I-1-5024. Annual. Cultivar. Seed.
- * PI 548152 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** SZANYI. **collector id:**
I-1-5043. Annual. Cultivar. Seed.
- * PI 548153 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** SZEGEDI 6. **collector id:**
I-1-11307. Annual. Cultivar. Seed.
- * PI 548154 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** SZEGEDI 764. **collector id:**
I-1-11309. Annual. Cultivar. Seed.
- * PI 548155 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** SZEKACS. **collector id:**
I-1-11311. Annual. Cultivar. Seed.
- * PI 548156 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** TAPLANI 9. **collector id:**
I-1-5752. Annual. Cultivar. Seed.
- * PI 548157 *Triticum aestivum* L. POACEAE Wheat
origin: Hungary. **cultivar:** TIMARI 3. **collector id:**
I-1-5106. Annual. Cultivar. Seed.

PI 548158 to 548192. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Woodworth, C.M., University of Illinois, Department of
Agronomy, Urbana, Illinois, United States. Received October 1954.

PI 548158 **origin:** United States. **origin institute:** University of
Illinois, Urbana, Illinois 61801. **cultivar:** T16.
pedigree: From Ebony. **remarks:** Brown hilum on black
seed. Annual. Genetic Material. Seed.

PI 548159 **origin:** United States. **origin institute:** Iowa State
University, Ames, Iowa 50010. **cultivar:** T31. **pedigree:**
Soysota x Ogemaw. **remarks:** p2 Puberulent. Annual.
Genetic Material. Seed.

PI 548158 to 548192-continued

- PI 548160 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T41. **pedigree:** Unknown, presumed outcross. **remarks:** ln (d1 d2) Narrow leaflet. Annual. Genetic Material. Seed.
- PI 548161 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T43. **pedigree:** Medium Green x "glabrous". **other id:** Progeny 435B. **remarks:** P1 (cyt-G1) Glabrous. Annual. Genetic Material. Seed.
- PI 548162 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T48. **pedigree:** Segregant from Manchu x Ebony. **remarks:** Spread hilum. Annual. Genetic Material. Seed.
- PI 548163 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T54. **pedigree:** From Manchu, presumed outcross. **remarks:** dt1 Determinate stem. Annual. Genetic Material. Seed.
- PI 548164 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T93. **pedigree:** From a hybrid population. **remarks:** v1 (D1 d2 or d1 D2) Variegated leaves. Annual. Genetic Material. Seed.
- PI 548165 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T93A. **pedigree:** From T93. **remarks:** v1 (d1 d2) Variegated leaves. Annual. Genetic Material. Seed.
- PI 548166 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T102. **pedigree:** From Wilson-Five. **remarks:** y4 le Greenish yellow leaves, weak plant, seed lectin absent. Annual. Genetic Material. Seed.
- PI 548167 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T104. **pedigree:** T42 (green cotyledon from H. Terao) x "Chromium green". **remarks:** d1 d2 G cyt-G1 Green seed embryo, green seed coat. Annual. Genetic Material. Seed.
- PI 548168 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T116H. **pedigree:** Radium-treated PI 65388. **remarks:** y5 Greenish yellow leaves, very weak plant. Annual. Genetic Material. Seed.

PI 548158 to 548192-continued

- PI 548169 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T117. **pedigree:** Segregant from AK114 x PI 65394. **other id:** L34-602. **remarks:** Dt2 lw1 Lw2 Semi-determinate stem, non-wavy leaf. Annual. Genetic Material. Seed.
- PI 548170 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T122. **pedigree:** Unknown. **remarks:** lo (d1 d2) Oval leaflet, few-seeded pods. Annual. Genetic Material. Seed.
- PI 548171 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T134. **pedigree:** Illini x Peking. **remarks:** y5 Greenish yellow leaves. Annual. Genetic Material. Seed.
- PI 548172 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T135. **pedigree:** From Illini. **remarks:** y9 Bright greenish yellow leaves. Annual. Genetic Material. Seed.
- PI 548173 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T136. **pedigree:** PI 88351 x Rokusun. **remarks:** y6 (ln dt1) Pale green leaves. Annual. Genetic Material. Seed.
- PI 548174 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T138. **pedigree:** Unknown. **other id:** L35-1156. **remarks:** y7 y8 Yellow growth in cool weather. Annual. Genetic Material. Seed.
- PI 548175 **origin:** United States. **cultivar:** T139. **pedigree:** From Illini, presumed outcross. **remarks:** g y3 Yellow seed coat, leaves turn yellow prematurely. Annual. Genetic Material. Seed.
- PI 548176 **origin:** United States. **cultivar:** T143. **pedigree:** Segregant from T138 x T137 (y3 from a cross in PI 81029). **remarks:** Lf1 g y3 y7 y8 5-foliolate, leaves turn yellow prematurely, and in cool weather. Annual. Genetic Material. Seed.
- PI 548177 **origin:** United States. **cultivar:** T144. **pedigree:** Segregant from LX431 (T93A x T138). **remarks:** d1 d2 v1 y7 y8 Green seed embryo, variegated leaves, yellow growth in cool weather. Annual. Genetic Material. Seed.

PI 548158 to 548192-continued

- PI 548178 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T145. **pedigree:** Unknown, presumed outcross. **other id:** 9-776. **remarks:** Pl Glabrous. Annual. Genetic Material. Seed.
- PI 548179 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T146. **pedigree:** Segregant from LX286 (PI 82235 x PI 91073). **remarks:** r-m Brown seed with black stripes. Annual. Genetic Material. Seed.
- PI 548180 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T152. **pedigree:** From Lincoln. **remarks:** i Self dark seed coat. Annual. Genetic Material. Seed.
- PI 548181 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T153. **pedigree:** From Lincoln. **remarks:** k1 Dark saddle on seed coat. Annual. Genetic Material. Seed.
- PI 548182 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T157. **pedigree:** From Richland. **remarks:** i Self dark seed coat. Annual. Genetic Material. Seed.
- PI 548183 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T160. **pedigree:** From Hahto (Michigan). **remarks:** Pale green leaves. Annual. Genetic Material. Seed.
- PI 548184 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T161. **pedigree:** From L36-5 (Mandarin x Mansoy). **remarks:** y10 Greenish yellow seedling. Annual. Genetic Material. Seed.
- PI 548185 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T162. **pedigree:** From Mandarin. **remarks:** y17 Light yellowish-green leaves. Annual. Genetic Material. Seed.
- PI 548186 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T164. **pedigree:** From Morse. **remarks:** Slightly variegated leaves. Annual. Genetic Material. Seed.

PI 548158 to 548192-continued

- PI 548187 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T171. **pedigree:** Unknown, presumed outcross. **remarks:** Long peduncle. Annual. Genetic Material. Seed.
- PI 548188 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T173. **pedigree:** Segregant from Keitomame (f) x PI 88351 (ln). **remarks:** f (ln) Fasciated stem. Annual. Genetic Material. Seed.
- PI 548189 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T175. **pedigree:** Unknown, presumed outcross. **remarks:** El t Late maturity, gray pubescence. Annual. Genetic Material. Seed.
- PI 548190 **origin:** United States. **origin institute:** University of Illinois, Urbana, Illinois 61801. **cultivar:** T176. **pedigree:** Unknown, presumed outcross. **remarks:** lw1 lw2 (Dt2) Wavy leaf. Annual. Genetic Material. Seed.
- PI 548191 **origin:** United States. **cultivar:** T180. **pedigree:** Segregant from same F3 plant as T181. **other id:** L46-1741-2. **remarks:** Rj1 Nodulating. Annual. Genetic Material. Seed.
- PI 548192 **origin:** United States. **cultivar:** T181. **pedigree:** Segregant from Lincoln(2) x Richland. **other id:** L46-1743-2. **remarks:** rj1 Nonnodulating. Annual. Genetic Material. Seed.

PI 548193 to 548217. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received May 1957.

- PI 548193 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T201. **pedigree:** Segregant from LX1277 (L46-1743 x L46-1741). **remarks:** rj1 Nonnodulating. Annual. Genetic Material. Seed.
- PI 548194 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T202. **pedigree:** Segregant sib of T201. **remarks:** Rj1 Nodulating. Annual. Genetic Material. Seed.

PI 548193 to 548217-continued

- PI 548195 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T204. **pedigree:** Segregant from T136 x T122. **other id:** L48-101. **remarks:** ln lo Narrow leaflet, 4-seeded pods; oval leaflet, few-seeded pods. Annual. Genetic Material. Seed.
- PI 548196 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T205. **pedigree:** Segregant from Dunfield x Manchuria 13177. **other id:** L48-163. **remarks:** lw1 lw2 Wavy leaf. Annual. Genetic Material. Seed.
- PI 548197 **origin:** United States. **cultivar:** T208. **pedigree:** Segregant from PI 196176 ('Yu Tae' from Korea). **other id:** 2300-2. **remarks:** Se Pedunculate inflorescence, small seeds. Annual. Genetic Material. Seed.
- PI 548198 **origin:** United States. **cultivar:** T209. **pedigree:** Segregant from Lincoln x "wild dwarf". **other id:** L50-155. **remarks:** Dwarf?. Annual. Genetic Material. Seed.
- PI 548199 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T210. **pedigree:** Colchicine-treated Lincoln. **other id:** L49-738. **remarks:** df2 Dwarf. Annual. Genetic Material. Seed.
- PI 548200 **origin:** United States. **cultivar:** T211H. **pedigree:** Kingwa x T161. **other id:** CX3941-844-2-5. **remarks:** pm Dwarf, crinkled leaves, sterile. Annual. Genetic Material. Seed.
- PI 548201 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T216. **pedigree:** Segregant from PI 86038 x PI 88351. **other id:** L46-266. **remarks:** Reddish black seeds. Annual. Genetic Material. Seed.
- PI 548202 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T218M. **pedigree:** From Illini. **remarks:** Y18-m Chlorophyll chimera (resembles T225M). Annual. Genetic Material. Seed.
- PI 548203 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T219H. **pedigree:** Richland x Linman 533. **other id:** A691-1. **remarks:** yll Lethal yellow (heterozygote has greenish yellow leaves). Annual. Genetic Material. Seed.

PI 548193 to 548217-continued

- PI 548204 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T220. **pedigree:** From Lincoln. **other id:** L46-431. **remarks:** Greenish yellow leaves. Annual. Genetic Material. Seed.
- PI 548205 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T221. **pedigree:** From Peking. **other id:** L46-426. **remarks:** Yellowish green leaves. Annual. Genetic Material. Seed.
- PI 548206 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T223. **pedigree:** From Richland. **other id:** L46-429. **remarks:** Yellowish green leaves. Annual. Genetic Material. Seed.
- PI 548207 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T224. **pedigree:** From Richland. **other id:** L46-428. **remarks:** Greenish yellow leaves. Annual. Genetic Material. Seed.
- PI 548208 **origin:** United States. **cultivar:** T225M. **pedigree:** From Lincoln. **remarks:** Y18-m Unstable gene resulting in chlorophyll chimera. Annual. Genetic Material. Seed.
- PI 548209 **origin:** United States. **cultivar:** T225H. **pedigree:** From T225M. **remarks:** y18 Near lethal yellow leaves. Annual. Genetic Material. Seed.
- PI 548210 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T226. **pedigree:** From Lincoln. **remarks:** Greenish yellow leaves. Annual. Genetic Material. Seed.
- PI 548211 **origin:** United States. **cultivar:** T227. **pedigree:** From Illini. **remarks:** Greenish yellow leaves, becoming green. Annual. Genetic Material. Seed.
- PI 548212 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T229. **pedigree:** F4 Richland x Linman 533. **remarks:** y14 Light green leaves. Annual. Genetic Material. Seed.
- PI 548213 **origin:** United States. **cultivar:** T230. **pedigree:** Mandell x Mandarin (Ottawa). **other id:** A43K-643-1. **remarks:** y13 Whitish green seedling, greenish yellow leaves. Annual. Genetic Material. Seed.

PI 548193 to 548217-continued

- PI 548214 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T231. **pedigree:** From AX3015-55 (Richland x Linman 533). **other id:** A49-8414. **remarks:** Greenish yellow leaves, weak plant. Annual. Genetic Material. Seed.
- PI 548215 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T232. **pedigree:** From Hawkeye. **remarks:** Yellowish green leaves. Annual. Genetic Material. Seed.
- PI 548216 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T233. **pedigree:** From Hawkeye. **remarks:** y12 Whitish primary leaves, yellowish green trifoliates. Annual. Genetic Material. Seed.
- PI 548217 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T234. **pedigree:** From L46-2132 (Clark progenitor). **remarks:** y15 Pale yellowish green leaves. Annual. Genetic Material. Seed.

PI 548218 to 548221. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received April 1960.

- PI 548218 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T235. **pedigree:** From Harosoy. **other id:** L58-274. **remarks:** wm Magenta flower. Annual. Genetic Material. Seed.
- PI 548219 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T236. **pedigree:** Segregant from T143 x "y6 ln pc dtl wl". **other id:** L46-232. **remarks:** (Lfl ln y6) Red-buff seed. Annual. Genetic Material. Seed.
- PI 548220 **origin:** United States. **cultivar:** T238. **pedigree:** X-rayed Clark. **other id:** S57-3416. **remarks:** k3 Dark saddle on seed coat. Annual. Genetic Material. Seed.
- PI 548221 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T239. **pedigree:** From Harosoy. **other id:** L63-365. **remarks:** k2 Tan saddle on seed coat. Annual. Genetic Material. Seed.

PI 548222 to 548233. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1968.

PI 548222 **origin:** United States. **cultivar:** T241H. **pedigree:** From S54-1714 (same cross as Wayne). **remarks:** st2 Asynaptic sterile. Annual. Genetic Material. Seed.

PI 548223 **origin:** United States. **cultivar:** T242H. **pedigree:** From AX54-118-2-8 (Blackhawk x Harosoy). **remarks:** st3 Asynaptic sterile. Annual. Genetic Material. Seed.

PI 548224 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T243. **pedigree:** Colchicine-treated Lincoln. **remarks:** df2 Dwarf. Annual. Genetic Material. Seed.

PI 548225 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T244. **pedigree:** Neutron-irradiated Adams. **other id:** Adams 77-2. **remarks:** df3 Dwarf. Annual. Genetic Material. Seed.

PI 548226 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T249H. **pedigree:** F3 (Clark(6) x PI 84987) x (Clark(6) x T145). **other id:** L67-4408A. **remarks:** (P1) Whitish yellow seedling, lethal. Annual. Genetic Material. Seed.

PI 548227 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T250H. **pedigree:** F2 Harosoy(5) x (Clark(6) x Chief). **other id:** L67-4439. **remarks:** Lethal seedling. Annual. Genetic Material. Seed.

PI 548228 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T251H. **pedigree:** F2 Harosoy(5) x T139. **other id:** L67-4440A. **remarks:** mn Miniature plant. Annual. Genetic Material. Seed.

PI 548229 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T252. **pedigree:** F3 Harosoy(6) x T139. **other id:** L64-2612. **remarks:** Pale green leaves. Annual. Genetic Material. Seed.

PI 548222 to 548233-continued

PI 548230 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T253. **pedigree:** From T239. **other id:** L67-4415A. **remarks:** y20 (k2) Yellowish green leaves, weak plant. Annual. Genetic Material. Seed.

PI 548231 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T254. **pedigree:** F2 Clark(6) x T176. **other id:** L67-4412A. **remarks:** Greenish yellow leaves. Annual. Genetic Material. Seed.

PI 548232 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T255. **pedigree:** From Hawkeye. **remarks:** lf2 7-foliolate. Annual. Genetic Material. Seed.

PI 548233 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T256. **pedigree:** From Hark. **remarks:** df4 Dwarf. Annual. Genetic Material. Seed.

PI 548234 to 548239. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received February 1976.

PI 548234 **origin:** United States. **cultivar:** T257H. **pedigree:** C1128(8) x Mukden C1128 is from Wabash x Hawkeye. **remarks:** y16 Near-lethal white. Annual. Genetic Material. Seed.

PI 548235 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T258H. **pedigree:** From Hark. **other id:** A72-1103-6. **remarks:** st4 Desynaptic sterile. Annual. Genetic Material. Seed.

PI 548236 **origin:** United States. **cultivar:** T259H. **pedigree:** F3 SL11 (Wayne-r Rpm Rps1) x L66L-177 L66L-177 is from Wayne x (Hawkeye x Lee). **other id:** L71L-06-4. **remarks:** ms2 Male sterile. Annual. Genetic Material. Seed.

PI 548237 **origin:** United States. **cultivar:** T260H. **pedigree:** Unknown. **other id:** N69-2774. **remarks:** ms1 (North Carolina) Male sterile. Annual. Genetic Material. Seed.

PI 548238 **origin:** United States. **cultivar:** T261. **pedigree:** From Mandarin (Ottawa). **other id:** S56-26. **remarks:** k2 Tan saddle on seed coat. Annual. Genetic Material. Seed.

PI 548234 to 548239-continued

PI 548239 **origin:** United States. **origin institute:** Soybean Research Foundation, Mason City, Illinois 62664. **cultivar:** T262. **pedigree:** From SRF 200 (Hark-1n). **remarks:** "Double pod". Annual. Genetic Material. Seed.

PI 548240 to 548252. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received January 1982.

PI 548240 **origin:** United States. **cultivar:** T263. **pedigree:** Harosoy 63 x PI 257435. **other id:** A76-2. **remarks:** df5 Dwarf. Annual. Genetic Material. Seed.

PI 548241 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T264. **pedigree:** Neutron-irradiated Blackhawk in the M2 generation. **other id:** L58-2749. **remarks:** Pd2 Dense pubescence. Annual. Genetic Material. Seed.

PI 548242 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T265H. **pedigree:** F2 Williams(6) x T259. **other id:** L75-0324. **remarks:** y19 Delayed albino. Annual. Genetic Material. Seed.

PI 548243 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T266H. **pedigree:** F3 row of L67-533 (Clark(6) x Higan) x SRF 300. **remarks:** msl (Urbana) Male sterile (higher female fertility than T260, T267, and T268). Annual. Genetic Material. Seed.

PI 548244 **origin:** United States. **cultivar:** T267H. **pedigree:** Semi-sterile plant found in Harosoy. **other id:** L56-292. **remarks:** msl (Tonica) Male sterile. Annual. Genetic Material. Seed.

PI 548245 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T268H. **pedigree:** Semi-sterile plant found in T258H. **other id:** A73g-21. **remarks:** msl (Ames 1) Male sterile. Annual. Genetic Material. Seed.

PI 548240 to 548252-continued

- PI 548246 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T269H. **pedigree:** Flower structure mutant segregating in a plant-progeny row from PI 339868. **other id:** L70-8654. **remarks:** fsl fs2 Structural sterile (T269H is from Fsl fsl fs2 fs2 plants). Annual. Genetic Material. Seed.
- PI 548247 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T270H. **pedigree:** Segregating in a F2 plant-progeny row from an outcross in T271H. **other id:** A78-286. **remarks:** y22 Greenish yellow leaves, very weak plant. Annual. Genetic Material. Seed.
- PI 548248 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T271H. **pedigree:** 40-parent bulk population (AP6(S1)C1). **remarks:** msp Partial male sterile. Annual. Genetic Material. Seed.
- PI 548249 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T272H. **pedigree:** From W66-4108 (Merit x W49-1982-32 (Hawkeye x Manchu 3)). **other id:** A71-44-13. **remarks:** st5 Desynaptic sterile. Annual. Genetic Material. Seed.
- PI 548250 **origin:** United States. **cultivar:** T273H. **pedigree:** Semi-sterile plant in a F3 plant-progeny from Calland x Cutler. **other id:** A72-1711. **remarks:** ms3 Male sterile. Annual. Genetic Material. Seed.
- PI 548251 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T274H. **pedigree:** Semi-sterile plant in Rampage. **other id:** A74-4646. **remarks:** ms4 Male sterile. Annual. Genetic Material. Seed.
- PI 548252 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T275. **pedigree:** Chimeric F2 plant in A75-1165-117 A75-1165-117 is from T268H x (PI 101404B x Clark(6)). **other id:** A77-K150. **remarks:** cyt-Y2 Yellowish leaves, becoming greenish yellow. Annual. Genetic Material. Seed.

PI 548253 to 548256. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received April 1985.

PI 548253 to 548256-continued

- PI 548253 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T276. **pedigree:** M2 generation of Williams treated with EMS, nitrosoguanidine, and X-rays. **remarks:** nrl Constitutive nitrate reductase absent. Annual. Genetic Material. Seed.
- PI 548254 **origin:** United States. **cultivar:** T277H. **pedigree:** Semi-sterile plant in the M3 generation of neutron-irradiated Essex. **remarks:** ms5 Male sterile. Annual. Genetic Material. Seed.
- PI 548255 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T278M. **pedigree:** Chimeric plant of unknown source. **remarks:** cyt-Y3 Yellow leaves, very weak plant (mutable plants are chlorophyll chimeras). Annual. Genetic Material. Seed.
- PI 548256 **origin:** United States. **origin institute:** USDA-ARS/Delta Experiment Station, Stoneville, Mississippi 38776. **cultivar:** T279. **pedigree:** Segregant from F3 (Forrest(2) x Sodendaizu (PI 229358)) x D71-6234. D71-6234 is from a high protein Lee type x PI 95960. **other id:** D76-1609. **remarks:** lps Short petiole. Annual. Genetic Material. Seed.

PI 548257 to 548261. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received January 1986.

- PI 548257 **origin:** United States. **origin institute:** Purdue University, West Lafayette, Indiana 47906. **cultivar:** T280. **pedigree:** Century treated with EMS. C1640 is the progeny of a 1981 M2 plant. **other id:** C1640. **remarks:** fan Low linolenic acid. Annual. Genetic Material. Seed.
- PI 548258 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T281. **pedigree:** Offtype in PI 232992. **other id:** L58-617. **remarks:** Dwarf plant, rugose leaf. Annual. Genetic Material. Seed.
- PI 548259 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T282. **pedigree:** Abnormal mutant or segregant in F3 of Williams x PI 82278. **other id:** L81-5482. **remarks:** Curled leaf. Annual. Genetic Material. Seed.

PI 548257 to 548261-continued

PI 548260 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T283. **pedigree:** F7 plants of PI 101404B x Clark(6). **other id:** A77-86. **remarks:** Chlorophyll deficient. Annual. Genetic Material. Seed.

PI 548261 **origin:** United States. **cultivar:** T284H. **pedigree:** Outcrossed male sterile plant in Wabash. **remarks:** ms3 (Flanagan) Male sterile. Annual. Genetic Material. Seed.

PI 548262 to 548264. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received April 1987.

PI 548262 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T285. **pedigree:** Williams treated with gamma rays. **other id:** IL3-1. **remarks:** fr5 Nonflourescent seedling. Annual. Genetic Material. Seed.

PI 548263 **origin:** United States. **origin institute:** Purdue University, West Lafayette, Indiana 47906. **cultivar:** T286. **pedigree:** From Cl421 (Adelphia(8) x Mukden) treated with EMS. **other id:** MS2060. **remarks:** df6 Dwarf. Annual. Genetic Material. Seed.

PI 548264 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T287H. **pedigree:** Segregating in S4:5 progeny from AP6(S1)C1. **other id:** S85-62-11. **remarks:** msl (Ames 2) Male sterile. Annual. Genetic Material. Seed.

PI 548265 to 548270. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received April 1988.

PI 548265 **origin:** United States. **cultivar:** T288. **pedigree:** From Williams. **other id:** Williams 80-7. **remarks:** y23 Leaves becoming yellow-white and necrotic, viable plant. Annual. Genetic Material. Seed.

PI 548265 to 548270-continued

- PI 548266 **origin:** United States. **origin institute:** University of New Hampshire, Durham, New Hampshire 03824. **cultivar:** T289. **pedigree:** From Hardee. **other id:** Hardee 2. **remarks:** Got-c Glutamate oxaloacetic transaminase variant. Annual. Genetic Material. Seed.
- PI 548267 **origin:** United States. **cultivar:** T290H. **pedigree:** Beeson outcross. **remarks:** msl (Danbury) Male sterile. Annual. Genetic Material. Seed.
- PI 548268 **origin:** United States. **cultivar:** T291H. **pedigree:** F2 (Viking x Classic II) x (Mitchell x Columbus) Viking is a private line from Merit x Amsoy. **remarks:** ms3 (Plainview) Male sterile. Annual. Genetic Material. Seed.
- PI 548269 **origin:** United States. **cultivar:** T292H. **pedigree:** From Corsoy. **remarks:** ms4 (Fisher) Male sterile. Annual. Genetic Material. Seed.
- PI 548270 **origin:** United States. **origin institute:** University of New Hampshire, Durham, New Hampshire 03824. **cultivar:** T293. **pedigree:** From Altona. **other id:** Altona-spl. **remarks:** spl B-amylase null. Annual. Genetic Material. Seed.

PI 548271 to 548284. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Nelson, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received April 27, 1989.

- PI 548271 **origin:** United States. **origin institute:** University of Georgia, Athens, Georgia 30601. **cultivar:** T294. **pedigree:** F6 line from Duocrop x G76-57 (Bragg x Kent). **other id:** G81-6299. **remarks:** g3 Green seed coat. Annual. Genetic Material. Seed.
- PI 548272 **origin:** Thailand. **origin institute:** Northeast Agriculture Center, Khonaen. **cultivar:** T296. **pedigree:** Williams x BB 13 No. 9 (mutant in SJ2). **remarks:** 5 to 7 foliolate. Annual. Genetic Material. Seed.
- PI 548273 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T297H. **pedigree:** F7 row from Clark x PI 317334B. **other id:** L88-3785. **remarks:** Semi-sterile. Annual. Genetic Material. Seed.

PI 548271 to 548284-continued

- PI 548274 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T298H. **pedigree:** F3 row from L64-2887(6) x Sooty L64-2887 is Clark-i. **other id:** L88-3809. **remarks:** Near sterile. Annual. Genetic Material. Seed.
- PI 548275 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T299H. **pedigree:** F3 row from Williams(6) x PI 229324. **other id:** L88-3834. **remarks:** (eu) Sterile. Annual. Genetic Material. Seed.
- PI 548276 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T300H. **pedigree:** F7 row from L78-375 (Williams-Rsv) x PI 86740. **other id:** L88-3854. **remarks:** Sterile. Annual. Genetic Material. Seed.
- PI 548277 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T301H. **pedigree:** F4 row from Beeson x Prize. **other id:** L88-3886. **remarks:** Semi-sterile. Annual. Genetic Material. Seed.
- PI 548278 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T302H. **pedigree:** From Beeson. **other id:** L88-3962. **remarks:** Near sterile. Annual. Genetic Material. Seed.
- PI 548279 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T303H. **pedigree:** L73-5446 from L67-1250 (Harosoy-Dt2) x L62-1251 (Clark-Dt2). **other id:** L88-3966. **remarks:** Near sterile. Annual. Genetic Material. Seed.
- PI 548280 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T304H. **pedigree:** From L73-5741 (Corsoy x Amsoy 71). **other id:** L88-3981. **remarks:** Near sterile. Annual. Genetic Material. Seed.
- PI 548281 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T305H. **pedigree:** From L75-12103 (Wells x Williams). **other id:** L88-4064. **remarks:** Semi-sterile. Annual. Genetic Material. Seed.

PI 548271 to 548284-continued

PI 548282 **origin:** United States. **origin institute:** USDA-ARS/University of Illinois, Urbana, Illinois 61801. **cultivar:** T306H. **pedigree:** From PI 506669 ('Fujihime'). **other id:** L88-4106. **remarks:** Sterile. Annual. Genetic Material. Seed.

PI 548283 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T307. **pedigree:** EMS mutant of FA 9252 (PI 80476 x PI 85671). **other id:** A5. **remarks:** fan (A5) Low linolenic acid. Annual. Genetic Material. Seed.

PI 548284 **origin:** United States. **origin institute:** Purdue University, West Lafayette, Indiana 47906. **cultivar:** T310. **pedigree:** Harosoy x L67-3391 (mutant found in Harosoy). **other id:** L81-4148. **remarks:** Weak stem, buff seed coat, wavy leaflet margin. Annual. Genetic Material. Seed.

PI 548285 to 548286. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Nelson, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received January 23, 1990.

PI 548285 **origin:** United States. **cultivar:** T311. **pedigree:** F6 generation of AP2 x P2180. **remarks:** shr Shriveled seed. Annual. Genetic Material. Seed.

PI 548286 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T312. **pedigree:** From Clark. **remarks:** v2 Variegated leaves. Annual. Genetic Material. Seed.

PI 548287 to 548290. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Nelson, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received September 28, 1990.

PI 548287 **origin:** United States. **origin institute:** Purdue University, West Lafayette, Indiana 47906. **cultivar:** T313. **pedigree:** EMS mutant in Cl421. **remarks:** ln r Narrow leaflet, rugose leaf. Annual. Genetic Material. Seed.

PI 548288 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T314. **pedigree:** F3 Clark T/T x T251. **remarks:** cyt-Y4 Yellow leaves. Annual. Genetic Material. Seed.

PI 548287 to 548290-continued

- PI 548289 **origin:** United States. **origin institute:** Iowa State University, Ames, Iowa 50010. **cultivar:** T315. **pedigree:** From Williams. **remarks:** cyt-Y5 Yellow leaves. Annual. Genetic Material. Seed.
- PI 548290 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Waterloo, Iowa 50700. **cultivar:** T316. **pedigree:** F6 (Corsoy x Rampage) x Franklin. **remarks:** cyt-Y6 Yellow leaves. Annual. Genetic Material. Seed.

PI 548291 to 548295. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Nelson, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received January 07, 1991.

- PI 548291 **origin:** United States. **origin institute:** Iowa State University, Department of Agronomy, Ames, Iowa 50010. **cultivar:** T317. **pedigree:** Somaclonal mutant in Jilin 3 (PI 4270099). Annual. Genetic Material. Seed.
- PI 548292 **origin:** United States. **origin institute:** Iowa State University, Department of Agronomy, Ames, Iowa 50010. **cultivar:** T318. **pedigree:** Somaclonal mutant in BSR 101. Annual. Genetic Material. Seed.
- PI 548293 **origin:** United States. **origin institute:** University of Nebraska, Keim Hall, East Campus, Lincoln, Nebraska 68583-0915. **cultivar:** T319. **pedigree:** Chimeric plant found in plot 3128, G. soja BC Experiment, plant number AX2950-1-2-2. AX 2950 is from LN78-1136 x PI 407298. LN78-1136 = Hack. **remarks:** cyt-Y7 Weak plant with yellow leaves. Annual. Genetic Material. Seed.
- PI 548294 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Rt. 150 West, R.R. 1 Box 348, St. Joseph, Illinois 61873. **cultivar:** T320. **pedigree:** Chimeric plant found in F9 of of cross Williams x Essex and identified as Y187669. **remarks:** cyt-Y8 Greenish-yellow leaves. Annual. Genetic Material. Seed.
- PI 548295 **origin:** United States. **origin institute:** Iowa State University, Department of Agronomy, Ames, Iowa 50010. **cultivar:** T321. **pedigree:** A single F11 plant (descended from the w4-mutable line) that exhibited the new dilute purple mutation (W4M-2-8-9-2-4-22). **remarks:** w4-dp Pale purple throat flower. Annual. Genetic Material. Seed.

PI 548296 to 548435. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received December 1988.

- PI 548296 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Agate. **pedigree:** Variety name assigned directly to or variety Selected from PI 81037. Annual. Cultivar. Seed.
- PI 548297 **origin:** China. **historical origin:** United States. **origin institute:** Lucas Paint Company, New Jersey. **cultivar:** A.K. [FC 30761]. **pedigree:** 'A.K.' was a heterogeneous variety from Northeast China. **other id:** A.K.. **source:** Prior designation. **remarks:** Released by 1917. Annual. Cultivar. Seed.
- PI 548298 **origin:** China. **historical origin:** Canada. **origin institute:** Harrow Experiment Station, Harrow, Ontario. **cultivar:** A.K. (Harrow). **pedigree:** Selected from 'A.K.' by 1928. **remarks:** Released by 1939. Annual. Cultivar. Seed.
- PI 548299 **origin:** China. **historical origin:** United States. **origin institute:** Kansas AES, Kansas. **cultivar:** A.K. [Kansas]. **pedigree:** Unknown. **remarks:** Released about 1949. Annual. Cultivar. Seed.
- PI 548300 **origin:** China. **historical origin:** United States. **origin institute:** Nebraska AES and USDA, Nebraska. **cultivar:** Aksarben. **pedigree:** Variety name assigned directly to or variety Selected from PI 36576. **remarks:** Released by 1923. Annual. Cultivar. Seed.
- PI 548301 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Aoda. **pedigree:** Variety name assigned directly to or variety Selected from PI 81043. Annual. Cultivar. Seed.
- PI 548302 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Bansei. **pedigree:** Variety name assigned directly to or variety Selected from PI 81031. Annual. Cultivar. Seed.
- PI 548303 **origin:** Japan. **historical origin:** United States. **origin institute:** Iowa AES, Ames, Iowa. **cultivar:** Bansei [Ames]. **pedigree:** Unknown. **remarks:** Released about 1950. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548304 **origin:** United States. **origin institute:** USDA --
Agricultural Research Service, Whitten, Iowa. **cultivar:**
Bavender Special A. **pedigree:** Selected from 'Bavendar
Special' in 1967 at Urbana, Illinois 'Bavandar Special'
from 'Mukden' x unknown strain from North Carolina.
'Mukden' is from PI 50523. **remarks:** Released about 1967.
Annual. Cultivar. Seed.
- PI 548305 **origin:** United States. **origin institute:** USDA --
Agricultural Research Service, Whitten, Iowa. **cultivar:**
Bavender Special B. **pedigree:** Selected from 'Bavendar
Special' in 1967 at Urbana, Illinois 'Bavandar Special'
from 'Mukden' x unknown strain from North Carolina.
'Mukden' is from PI 50523. **remarks:** Released about 1967.
Annual. Cultivar. Seed.
- PI 548306 **origin:** United States. **origin institute:** USDA --
Agricultural Research Service, Whitten, Iowa. **cultivar:**
Bavender Special C. **pedigree:** Selected from 'Bavendar
Special' in 1967 at Urbana, Illinois 'Bavandar Special'
from 'Mukden' x unknown strain from North Carolina.
'Mukden' is from PI 50523. **remarks:** Released about 1967.
Annual. Cultivar. Seed.
- PI 548307 **origin:** China. **historical origin:** Canada. **origin
institute:** Central Experimental Farm, Ottawa, Ontario.
cultivar: Blackeye. **pedigree:** Unknown. Annual.
Cultivar. Seed.
- PI 548308 **origin:** China. **historical origin:** United States. **origin
institute:** USDA Arlington Farm, Arlington, Virginia
22200. **cultivar:** Black Eyebrow. **pedigree:** Variety name
assigned directly to or variety Selected from PI 30744.
Annual. Cultivar. Seed.
- PI 548309 **origin:** China. **historical origin:** United States. **origin
institute:** Missouri AES, Missouri. **cultivar:** Boone.
pedigree: Variety name assigned directly to or variety
Selected from PI 54563. **other id:** CV-1. **source:** J. Am.
Soc. Agron. 35(9):834 1943. **group:** CSR-SOYBEAN. **other
id:** Missouri Selection. **source:** Prior name. **other id:**
PI 54563-3. **source:** Prior designation. Annual.
Cultivar. Seed.
- PI 548310 **origin:** United States. **cultivar:** Burwell. **pedigree:**
Unknown. **remarks:** Released by 1933. Annual. Cultivar.
Seed.

PI 548296 to 548435-continued

- PI 548311 **origin:** Canada. **origin institute:** Central Experimental Farm, Ottawa, Ontario. **cultivar:** Capital. **pedigree:** No. 171 x A.K. (Harrow) No. 171 is from Sochentze, Heilongjiang, China, in 1931. **other id:** CV-16. **source:** Agron. J. 47(11):541 1955. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.
- PI 548312 **origin:** China. **historical origin:** United States. **origin institute:** New York AES, New York. **cultivar:** Cayuga. **pedigree:** Variety name assigned directly to or variety Selected from PI 65393. Annual. Cultivar. Seed.
- PI 548313 **origin:** USSR. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Chestnut. **pedigree:** Selected from 'Habaro' in 1907. **other id:** PI 20405B. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548314 **origin:** United States. **origin institute:** Illinois AES, Illinois. **cultivar:** Chief. **pedigree:** Illini x Manchu A (a typical Manchu selection). **other id:** T119. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548315 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Chusei. **pedigree:** Variety name assigned directly to or variety Selected from PI 80472. Annual. Cultivar. Seed.
- PI 548316 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Cloud. **pedigree:** Variety name assigned directly to or variety Selected from PI 16790. Annual. Cultivar. Seed.
- PI 548317 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Columbia. **pedigree:** Variety name assigned directly to or variety Selected from PI 22897. Annual. Cultivar. Seed.
- PI 548318 **origin:** China. **historical origin:** United States. **origin institute:** Purdue AES, West Lafayette, Indiana 47906. **cultivar:** Dunfield. **pedigree:** Variety name assigned directly to or variety Selected from PI 36846. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548319 **origin:** United States. **origin institute:** Purdue AES, West Lafayette, Indiana 47906. **cultivar:** Earlyana. **pedigree:** Selected from 'Dunfield' in 1931. **other id:** CV-4. **source:** J. Am. Soc. Agron. 36(5):458 1944. **group:** CSR-SOYBEAN. **other id:** C28. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548320 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Early White Eyebrow. **pedigree:** Unknown. **other id:** White Eyebrow. **source:** Prior name. **remarks:** Released by 1940. Annual. Cultivar. Seed.
- PI 548321 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Ebony. **pedigree:** Variety name assigned directly to or variety Selected from PI 6386. Annual. Cultivar. Seed.
- PI 548322 **origin:** USSR. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Elton. **pedigree:** Variety name assigned directly to or variety Selected from PI 20406. Annual. Cultivar. Seed.
- PI 548323 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** Illinois AES, Illinois. **cultivar:** Emperor. **pedigree:** Selected from PI 97155 PI 97155 is from the Agricultural Experiment Station, Sariwon, Hwanghae Bug Do, North Korea, in 1932. Annual. Cultivar. Seed.
- PI 548324 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Etum. **pedigree:** Variety name assigned directly to or variety Selected from PI 86100. **remarks:** Released by 1941. Annual. Cultivar. Seed.
- PI 548325 **origin:** USSR. **historical origin:** United States. **origin institute:** Wisconsin AES, Spooner Branch Station, Wisconsin. **cultivar:** Flambeau. **pedigree:** Unknown. **other id:** CV-61. **source:** Crop Sci. 7(3):279 1967. **group:** CSR-SOYBEAN. **other id:** Wisconsin 839-14. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548326 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Fuji. **pedigree:** Selected from PI 81029 PI 81029 is 'Chuseikurome Daizu' from the Yamato Seed Company, Sapporo, Hokkaido, Japan, in 1929. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548327 **origin:** Japan. **historical origin:** United States. **origin institute:** Funk Brothers Seed Company, Bloomington, Illinois. **cultivar:** Funk Delicious. **pedigree:** Unknown. Annual. Cultivar. Seed.
- PI 548328 **origin:** China. **historical origin:** United States. **origin institute:** Funk Brothers Seed Company, Bloomington, Illinois. **cultivar:** Funman. **pedigree:** Selected from 'Manchu'. **remarks:** Released by 1938. Annual. Cultivar. Seed.
- PI 548329 **origin:** Japan. **origin institute:** Takii Seed Company, Kyoto, Honshu. **cultivar:** Giant Green. **pedigree:** Unknown. Annual. Cultivar. Seed.
- PI 548330 **origin:** United States. **origin institute:** Purdue AES, West Lafayette, Indiana 47906. **cultivar:** Gibson. **pedigree:** Dunfield x Midwest. **other id:** CV-3. **source:** J. Am. Soc. Agron. 36(5):458 1944. **group:** CSR-SOYBEAN. **other id:** Cl69. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548331 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Goku. **pedigree:** Selected from PI 80480. PI 80480 is 'Gokuwase Daihosan Shinbon Daizu' from Saitama, Japan, in 1929. Annual. Cultivar. Seed.
- PI 548332 **origin:** USSR. **historical origin:** Canada. **origin institute:** Ontario Agricultural College, Guelph, Ontario. **cultivar:** Goldsoy. **pedigree:** Selected from 'OAC 211'. **remarks:** Released by 1940. Annual. Cultivar. Seed.
- PI 548333 **origin:** China. **historical origin:** United States. **origin institute:** New Jersey AES, New Jersey. **cultivar:** Granger. **pedigree:** Selected from 'Manchu' by the Ohio AES. **other id:** Ohio 31-4. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548334 **origin:** Korea, Republic of. **historical origin:** United States. **cultivar:** Green and Black. **pedigree:** Variety name assigned directly to or variety Selected from PI 84784. Annual. Cultivar. Seed.
- PI 548335 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Guelph. **pedigree:** Unknown. **other id:** Medium Green. **source:** Prior name. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548336 **origin:** USSR. **historical origin:** United States. **origin institute:** Minnesota AES, Minnesota. **cultivar:** Habaro. **pedigree:** Variety name assigned directly to or variety Selected from PI 20405. Annual. Cultivar. Seed.
- PI 548337 **origin:** United States. **origin institute:** Ford Motor Company, Michigan. **cultivar:** Hahto [Michigan]. **pedigree:** Unknown. **remarks:** Released by 1940. Annual. Cultivar. Seed.
- PI 548338 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Hakote. **pedigree:** Variety name assigned directly to or variety Selected from PI 81039. Annual. Cultivar. Seed.
- PI 548339 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Harbinsoy. **pedigree:** Selected from PI 54606 in 1922 PI 54606 is from Benxi, Liaoning, China, in 1921. **other id:** PI 54606-3. **source:** Prior designation. **remarks:** Released by 1932. Annual. Cultivar. Seed.
- PI 548340 **origin:** China. **historical origin:** Canada. **origin institute:** Harrow Experiment Station, Harrow, Ontario. **cultivar:** Harman. **pedigree:** Selected from 'Manchu'. Annual. Cultivar. Seed.
- PI 548341 **origin:** Japan. **historical origin:** United States. **origin institute:** O.H. Will and Company, Bismarck, North Dakota. **cultivar:** Hidatsa. **pedigree:** Variety name assigned directly to or variety Selected from PI 81038. Annual. Cultivar. Seed.
- PI 548342 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Higan. **pedigree:** Variety name assigned directly to or variety Selected from PI 80475. Annual. Cultivar. Seed.
- PI 548343 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Hokkaido. **pedigree:** Selected from PI 85666 PI 85666 is 'Hokkaido Tsurunoko' from Tokyo, Japan, in 1930. Annual. Cultivar. Seed.
- PI 548344 **origin:** Hong Kong. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Hongkong. **pedigree:** Variety name assigned directly to or variety Selected from PI 22406. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548345 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Hoosier. **pedigree:** Variety name assigned directly to or variety Selected from PI 30746. **remarks:** Released by 1923. Annual. Cultivar. Seed.
- PI 548346 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **cultivar:** Hurrelbrink. **pedigree:** Selected from 'Haberlandt' in 1902. **remarks:** Released by 1923. Annual. Cultivar. Seed.
- PI 548347 **origin:** Japan. **historical origin:** United States. **origin institute:** Illinois AES, Illinois. **cultivar:** Illington. **pedigree:** Unknown. Annual. Cultivar. Seed.
- PI 548348 **origin:** China. **historical origin:** United States. **origin institute:** Illinois AES, Illinois. **cultivar:** Illini. **pedigree:** Selected from 'A.K.' in 1920. **other id:** A.K. 3. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548349 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** Illinois AES, Illinois. **cultivar:** Ilsoy. **pedigree:** Selected from 'Ebony' in 1913. **other id:** Illinois 13-19. **source:** Prior designation. **remarks:** Released by 1927. Annual. Cultivar. Seed.
- PI 548350 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Imperial. **pedigree:** Variety name assigned directly to or variety Selected from PI 81780. Annual. Cultivar. Seed.
- PI 548351 **origin:** Korea, Republic of. **historical origin:** United States. **cultivar:** Jefferson. **pedigree:** Variety name assigned directly to or variety Selected from PI 82202. Annual. Cultivar. Seed.
- PI 548352 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Jogun. **pedigree:** Selected from PI 87615 PI 87615 is 'Shirobana' from Dojogun, Hamgyeong Bug Do, North Korea, in 1930. Annual. Cultivar. Seed.
- PI 548353 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** Iowa AES, Ames, Iowa. **cultivar:** Jogun [Ames]. **pedigree:** Unknown. **remarks:** Released about 1957. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548354 **origin:** China. **historical origin:** Canada. **origin institute:** Central Experimental Farm, Ottawa, Ontario. **cultivar:** Kabott. **pedigree:** Unknown. Annual. Cultivar. Seed.
- PI 548355 **origin:** United States. **cultivar:** Kagon. **pedigree:** Unknown. **remarks:** Released by 1944. Annual. Cultivar. Seed.
- PI 548356 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Kanro. **pedigree:** Selected from PI 84928 PI 84928 is 'Kanro' from the Heian-Nando Seed and Nursery Farm, Pyongyang, North Korea, in 1930. Annual. Cultivar. Seed.
- PI 548357 **origin:** Korea, Republic of. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Kanum. **pedigree:** Selected from PI 84668 PI 84668 is from the Agricultural Experiment Station, Suweon, Gyeonggi Do, South Korea, in 1930. **other id:** PI 84668-1. **source:** Prior designation. **remarks:** Released by 1941. Annual. Cultivar. Seed.
- PI 548358 **origin:** Japan. **historical origin:** United States. **origin institute:** Rhode Island AES and USDA, Rhode Island. **cultivar:** Kingston. **pedigree:** Variety name assigned directly to or variety Selected from PI 17255. Annual. Cultivar. Seed.
- PI 548359 **origin:** China. **historical origin:** United States. **origin institute:** West Virginia AES, West Virginia. **cultivar:** Kingwa. **pedigree:** Selected from 'Peking' in 1921. **other id:** Pekwa. **source:** Prior name. Annual. Cultivar. Seed.
- PI 548360 **origin:** Korea, Dem Peoples Rep of. **historical origin:** Canada. **origin institute:** Harrow Experiment Station, Harrow, Ontario. **cultivar:** Korean. **pedigree:** Unknown. **remarks:** Released by 1928. Annual. Cultivar. Seed.
- PI 548361 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Kura. **pedigree:** Variety name assigned directly to or variety Selected from PI 81042. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548362 **origin:** United States. **origin institute:** Illinois AES and US Regional Soybean Lab, Urbana, Illinois 61801. **cultivar:** Lincoln. **pedigree:** Mandarin x Manchu. **other id:** CV-5. **source:** Agron. J. 45(7):326 1953. **group:** CSR-SOYBEAN. **other id:** L36-685. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548363 **origin:** China. **historical origin:** United States. **origin institute:** Iowa AES, Iowa. **cultivar:** Linman 533. **pedigree:** Selected from 'Manchu'. **remarks:** Released by 1939. Annual. Cultivar. Seed.
- PI 548364 **origin:** United States. **cultivar:** Macoupin. **pedigree:** Unknown. Annual. Cultivar. Seed.
- PI 548365 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Manchu. **pedigree:** Variety name assigned directly to or variety Selected from PI 30593. Annual. Cultivar. Seed.
- PI 548366 **origin:** China. **historical origin:** United States. **origin institute:** Purdue AES, West Lafayette, Indiana 47906. **cultivar:** Manchu [Lafayette]. **pedigree:** Unknown. **remarks:** Released about 1943. Annual. Cultivar. Seed.
- PI 548367 **origin:** China. **historical origin:** United States. **origin institute:** USDA--Agricultural Research Service, Urbana, Illinois 61801. **cultivar:** Manchu [Lafayette] B. **pedigree:** Subline separated from 'Manchu [Lafayette]' in 1967. **remarks:** Released about 1967. Annual. Cultivar. Seed.
- PI 548368 **origin:** China. **historical origin:** United States. **origin institute:** Wisconsin AES, Madison, Wisconsin. **cultivar:** Manchu [Madison]. **pedigree:** Unknown. **remarks:** Released about 1951. Annual. Cultivar. Seed.
- PI 548369 **origin:** China. **historical origin:** Canada. **cultivar:** Manchu, Hudson. **pedigree:** Selected from 'Manchu'. **other id:** Hudson Manchu. **source:** Synonym. **remarks:** Released by 1939. Annual. Cultivar. Seed.
- PI 548370 **origin:** China. **historical origin:** Canada. **cultivar:** Manchu, Montreal. **pedigree:** Selected from 'Manchu'. **other id:** Montreal Manchu. **source:** Synonym. **remarks:** Released by 1944. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548371 **origin:** China. **historical origin:** United States. **origin institute:** Wisconsin AES, Wisconsin. **cultivar:** Manchu 3. **pedigree:** Selected from 'Manchu'. **other id:** Wis. Manchu 3. **source:** Prior designation. **remarks:** Released by 1940. Annual. Cultivar. Seed.
- PI 548372 **origin:** China. **historical origin:** United States. **origin institute:** Wisconsin AES, Wisconsin. **cultivar:** Manchu 606. **pedigree:** Selected from 'Manchu'. **other id:** Wis. Manchu 606. **source:** Prior designation. **remarks:** Released by 1940. Annual. Cultivar. Seed.
- PI 548373 **origin:** China. **historical origin:** United States. **cultivar:** Manchu 2204. **pedigree:** Selected from 'Manchu'. **remarks:** Released by 1942. Annual. Cultivar. Seed.
- PI 548374 **origin:** China. **historical origin:** United States. **origin institute:** South Dakota AES, South Dakota. **cultivar:** Manchukota. **pedigree:** Selected from 'Manchu'. **other id:** Manchu 831. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548375 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Manchuria. **pedigree:** Variety name assigned directly to or variety Selected from PI 28050. **other id:** Pinpu. **source:** Prior name. **remarks:** Released by 1912. Annual. Cultivar. Seed.
- PI 548376 **origin:** China. **historical origin:** United States. **origin institute:** Ohio AES, Ohio. **cultivar:** Manchuria 13177. **pedigree:** Selected from 'Manchuria' in 1913. **other id:** Ohio 13177. **source:** Prior designation. **remarks:** Released by 1940. Annual. Cultivar. Seed.
- PI 548377 **origin:** China. **historical origin:** United States. **origin institute:** Ohio AES, Ohio. **cultivar:** Manchuria 20173. **pedigree:** Selected from 'Manchuria' in 1920. **other id:** Ohio 20173. **source:** Prior designation. **remarks:** Released by 1949. Annual. Cultivar. Seed.
- PI 548378 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Mandarin. **pedigree:** Selected from PI 36653 PI 36653 is from Sui Hua, Heilongjiang, China, in 1913. **remarks:** Released by 1920. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548379 **origin:** China. **historical origin:** Canada. **origin institute:** Central Experimental Farm, Ottawa, Ontario. **cultivar:** Mandarin (Ottawa). **pedigree:** Selected from 'Mandarin' in 1929. **other id:** Mandarin. **source:** Prior name. **other id:** Ottawa Mandarin. **source:** Synonym. Annual. Cultivar. Seed.
- PI 548380 **origin:** China. **historical origin:** United States. **origin institute:** Wisconsin AES, Wisconsin. **cultivar:** Mandarin 507. **pedigree:** Selected from 'Mandarin'. **remarks:** Released by 1943. Annual. Cultivar. Seed.
- PI 548381 **origin:** China. **historical origin:** United States. **origin institute:** Purdue AES, West Lafayette, Indiana 47906. **cultivar:** Mandell. **pedigree:** Selected from 'Manchu' in 1926. **other id:** MM-35. **source:** Prior designation. **remarks:** Released by 1934. Annual. Cultivar. Seed.
- PI 548382 **origin:** China. **historical origin:** Canada. **origin institute:** Manitoba Agricultural College, Winnipeg, Manitoba. **cultivar:** Manitoba Brown. **pedigree:** Unknown. **remarks:** Released by 1939. Annual. Cultivar. Seed.
- PI 548383 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Mansoy. **pedigree:** Selected from 'Manchu' in 1915. **remarks:** Released by 1928. Annual. Cultivar. Seed.
- PI 548384 **origin:** Japan. **historical origin:** United States. **origin institute:** Massachusetts AES, Massachusetts. **cultivar:** Medium Green. **pedigree:** Unknown. **other id:** Guelph. **source:** Synonym. **remarks:** Released by 1903. Annual. Cultivar. Seed.
- PI 548385 **origin:** Korea, Republic of. **historical origin:** United States. **origin institute:** Wisconsin AES, Wisconsin. **cultivar:** Mendota. **pedigree:** Selected from PI 84668 PI 84668 is from the Agricultural Experiment Station, Suweon, Gyeonggi Do, South Korea, in 1930. **remarks:** Released by 1944. Annual. Cultivar. Seed.
- PI 548386 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Midwest. **pedigree:** Variety name assigned directly to or variety Selected from PI 6556. **other id:** Medium Yellow. **source:** Prior name. **other id:** Mongol. **source:** Prior name. Annual. Cultivar. Seed.
- PI 548387 **origin:** United States. **cultivar:** Miller 67. **pedigree:** Unknown. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548388 **origin:** China. **historical origin:** United States. **origin institute:** Ohio AES, Ohio. **cultivar:** Mingo. **pedigree:** Selected from 'Manchu' in 1924. **other id:** Ohio Manchu 1. **source:** Prior designation. **remarks:** Released by 1940. Annual. Cultivar. Seed.
- PI 548389 **origin:** France. **historical origin:** United States. **origin institute:** Minnesota AES, Minnesota. **cultivar:** Minsoy. **pedigree:** Variety name assigned directly to or variety Selected from PI 27890. Annual. Cultivar. Seed.
- PI 548390 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Morse. **pedigree:** Variety name assigned directly to or variety Selected from PI 19186. Annual. Cultivar. Seed.
- PI 548391 **origin:** China. **historical origin:** United States. **origin institute:** Iowa AES and USDA, Iowa. **cultivar:** Mukden. **pedigree:** Variety name assigned directly to or variety Selected from PI 50523. **other id:** PI 50532Q. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548392 **origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Norredo. **pedigree:** Unknown. **other id:** Indiana Laredo. **source:** Prior name. Annual. Cultivar. Seed.
- PI 548393 **origin:** United States. **origin institute:** North Dakota AES, Minnesota. **cultivar:** Norsoy. **pedigree:** Unknown. **other id:** Pridesoy. **source:** Prior name. **remarks:** Released by 1944. Annual. Cultivar. Seed.
- PI 548394 **origin:** USSR. **historical origin:** Canada. **origin institute:** Ontario Agricultural College, Guelph, Ontario. **cultivar:** OAC 211. **pedigree:** Selected from 'Habaro'. **remarks:** Released by 1928. Annual. Cultivar. Seed.
- PI 548395 **origin:** United States. **cultivar:** Ogemaw. **pedigree:** No. 6 Early Black x Dwarf Brown Both parent strains are of unknown origin. **other id:** Evans Crossbred No. 9. **source:** Prior designation. **other id:** Ogema. **source:** Synonym. Annual. Cultivar. Seed.
- PI 548396 **origin:** China. **historical origin:** United States. **origin institute:** New York AES, New York. **cultivar:** Ontario. **pedigree:** Variety name assigned directly to or variety Selected from PI 65344. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548397 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Osaya. **pedigree:** Variety name assigned directly to or variety Selected from PI 80465. Annual. Cultivar. Seed.
- PI 548398 **origin:** Canada. **origin institute:** Central Experimental Farm, Ottawa, Ontario. **cultivar:** Pagoda. **pedigree:** Manitoba Brown x Mandarin. Annual. Cultivar. Seed.
- PI 548399 **origin:** Korea, Republic of. **historical origin:** United States. **origin institute:** University of New Hampshire, Department of Horticulture, New Hampshire. **cultivar:** Pando. **pedigree:** Unknown. Annual. Cultivar. Seed.
- PI 548400 **origin:** China. **historical origin:** United States. **origin institute:** Purdue AES and USDA, Indiana. **cultivar:** Patoka. **pedigree:** Variety name assigned directly to or variety Selected from PI 70218. **other id:** CV-2. **source:** J. Am. Soc. Agron. 36(5):458 1944. **group:** CSR-SOYBEAN. **other id:** PI 70218-2-19-3. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548401 **origin:** Morocco. **historical origin:** United States. **origin institute:** High Plains Research Foundation, Plainview, Texas. **cultivar:** Patterson. **pedigree:** Unknown. Annual. Cultivar. Seed.
- PI 548402 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Peking. **pedigree:** Variety name assigned directly to or variety Selected from PI 17852. **other id:** PI 17852B. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548403 **origin:** United States. **origin institute:** Pennsylvania AES, Pennsylvania. **cultivar:** Pennsoy. **pedigree:** A rogue in 'Manchuria 13177'. Annual. Cultivar. Seed.
- PI 548404 **origin:** Canada. **origin institute:** Central Experimental Farm, Ottawa, Ontario. **cultivar:** Poland Yellow. **pedigree:** Unknown. **remarks:** Released by 1932. Annual. Cultivar. Seed.
- PI 548405 **origin:** United States. **cultivar:** Portugal. **pedigree:** Unknown. **remarks:** Released by 1949. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548406 **origin:** China. **historical origin:** United States. **origin institute:** Purdue AES, West Lafayette, Indiana 47906. **cultivar:** Richland. **pedigree:** Variety name assigned directly to or variety Selected from PI 70502 in 1927. **other id:** PI 70502-2. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548407 **origin:** Japan. **historical origin:** United States. **origin institute:** Iowa AES, Iowa. **cultivar:** Sac. **pedigree:** Variety name assigned directly to or variety Selected from PI 80462. Annual. Cultivar. Seed.
- PI 548408 **origin:** China. **historical origin:** United States. **cultivar:** Sanga. **pedigree:** Variety name assigned directly to or variety Selected from PI 70210. **other id:** PI 70210-1. **source:** Prior designation. **remarks:** Released by 1944. Annual. Cultivar. Seed.
- PI 548409 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Sato. **pedigree:** Variety name assigned directly to or variety Selected from PI 81041. Annual. Cultivar. Seed.
- PI 548410 **origin:** China. **historical origin:** United States. **origin institute:** Ohio AES, Ohio. **cultivar:** Scioto. **pedigree:** Selected from 'Manchu' in 1925. Annual. Cultivar. Seed.
- PI 548411 **origin:** China. **historical origin:** United States. **origin institute:** New York AES, New York. **cultivar:** Seneca. **pedigree:** Selected from FC 03654 in 1921 FC 03654 is from northeast China in 1920. **other id:** FC 03654A. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548412 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Shingto. **pedigree:** Variety name assigned directly to or variety Selected from PI 21079. Annual. Cultivar. Seed.
- PI 548413 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Shiro. **pedigree:** Variety name assigned directly to or variety Selected from PI 81036. Annual. Cultivar. Seed.
- PI 548414 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Sioux. **pedigree:** Variety name assigned directly to or variety Selected from PI 81021. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548415 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Sooty. **pedigree:** Selected from 'Cloud' in 1907. **other id:** PI 16790B. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548416 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Sousei. **pedigree:** Selected from PI 80476 PI 80476 is 'Sousei O Saya Eda Mame' from Tokyo, Japan, in 1929. Annual. Cultivar. Seed.
- PI 548417 **origin:** Italy. **historical origin:** United States. **origin institute:** Minnesota AES, Minnesota. **cultivar:** Soysota. **pedigree:** Variety name assigned directly to or variety Selected from PI 28019. **remarks:** Released by 1923. Annual. Cultivar. Seed.
- PI 548418 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Tastee. **pedigree:** Variety name assigned directly to or variety Selected from PI 86019. **remarks:** Released by 1941. Annual. Cultivar. Seed.
- PI 548419 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Toku. **pedigree:** Variety name assigned directly to or variety Selected from PI 86129. Annual. Cultivar. Seed.
- PI 548420 **origin:** Japan. **historical origin:** United States. **origin institute:** Illinois AES, Illinois. **cultivar:** Tortoise Egg. **pedigree:** Unknown. Annual. Cultivar. Seed.
- PI 548421 **origin:** United States. **origin institute:** Illinois AES, Illinois. **cultivar:** Viking. **pedigree:** Illini x Manchu A (a typical Manchu selection). **other id:** T118. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548422 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Virginia. **pedigree:** Selected from 'Morse' in 1909. **other id:** PI 19186D. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548423 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Waseda. **pedigree:** Selected from PI 80461 PI 80461 is 'Wase Eda Mame' from Hokkaido, Japan, in 1929. **other id:** PI 80461-1. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

- PI 548424 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Wea. **pedigree:** Selected from PI 30600 PI 30600 is 'Chin Yuan Tou' from Shuangcheng, Heilongjiang, China, in 1911. Annual. Cultivar. Seed.
- PI 548425 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Willomi. **pedigree:** Variety name assigned directly to or variety Selected from PI 81044. **other id:** PI 81044-1. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548426 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA/Agricultural Research Service, Urbana, Illinois 61801. **cultivar:** Willomi B. **pedigree:** Subline separated from 'Willomi' in 1967. **remarks:** Released about 1967. Annual. Cultivar. Seed.
- PI 548427 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Wilson. **pedigree:** Variety name assigned directly to or variety Selected from PI 19183. Annual. Cultivar. Seed.
- PI 548428 **origin:** China. **historical origin:** United States. **origin institute:** USDA/Agricultural Research Service, Urbana, Illinois 61801. **cultivar:** Wilson B. **pedigree:** Subline separated from 'Wilson' in 1967. **remarks:** Released about 1967. Annual. Cultivar. Seed.
- PI 548429 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Wilson-Five. **pedigree:** Selected from 'Wilson' in 1910. **other id:** PI 19183-5. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548430 **origin:** China. **historical origin:** United States. **origin institute:** USDA/Agricultural Research Service, Urbana, Illinois 61801. **cultivar:** Wilson-Five B. **pedigree:** Subline separated from 'Wilson-Five' in 1967. **remarks:** Released about 1967. Annual. Cultivar. Seed.
- PI 548431 **origin:** China. **historical origin:** United States. **origin institute:** Virginia AES, Virginia. **cultivar:** Wilson-6. **pedigree:** Selected from 'Wilson'. Annual. Cultivar. Seed.

PI 548296 to 548435-continued

PI 548432 **origin:** United States. **origin institute:** Wing Seed Company, Ohio. **cultivar:** Wing Jet. **pedigree:** Probably a selection from 'Jet' 'Jet' is PI 17861 from Sachon, Hebei, China, in 1906. **other id:** Jet. **source:** Prior name. **remarks:** Released by 1929. Annual. Cultivar. Seed.

PI 548433 **origin:** France. **historical origin:** United States. **origin institute:** Wisconsin AES, Wisconsin. **cultivar:** Wisconsin Black. **pedigree:** Variety name assigned directly to or variety Selected from PI 5039. Annual. Cultivar. Seed.

PI 548434 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Wolverine. **pedigree:** Variety name assigned directly to or variety Selected from PI 80490. **other id:** PI 80490-1. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548435 **origin:** United States. **cultivar:** Yellow Marvel. **pedigree:** Unknown. **remarks:** Released by 1941. Annual. Cultivar. Seed.

PI 548436 to 548497. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, E.E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received February 1991.

PI 548436 **origin:** United States. **origin institute:** Louisiana AES, Louisiana. **cultivar:** Acadian. **pedigree:** PI 60406 x FC 04910 (an unknown strain) PI 60406 is 'Cung Yien' from Nanping, Fujian, China in 1924. **other id:** La40-293. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548437 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Arisoy. **pedigree:** Variety name assigned directly to or variety Selected from PI 86736. **remarks:** Released by 1943. Annual. Cultivar. Seed.

PI 548438 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** Arkansas AES, Arkansas. **cultivar:** Arksoy. **pedigree:** Variety name assigned directly to or variety Selected from PI 37335. Annual. Cultivar. Seed.

PI 548436 to 548497-continued

- PI 548439 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Arlington. **pedigree:** Variety name assigned directly to or variety Selected from PI 22899. Annual. Cultivar. Seed.
- PI 548440 **origin:** United States. **origin institute:** Arizona AES, Arizona. **cultivar:** Armredo. **pedigree:** Selected from 'Mamredo' in 1942. **remarks:** Released by 1945. Annual. Cultivar. Seed.
- PI 548441 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** USDA, Pyongyang. **cultivar:** Austin. **pedigree:** Variety name assigned directly to or variety Selected from PI 6397. Annual. Cultivar. Seed.
- PI 548442 **origin:** China. **historical origin:** United States. **origin institute:** Louisiana AES, Louisiana. **cultivar:** Avoyelles. **pedigree:** Selected from 'Otootan' in a farmer's field, Avoyelles Parish, Louisiana. Annual. Cultivar. Seed.
- PI 548443 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farms, Virginia. **cultivar:** Barchet. **pedigree:** Variety name assigned directly to or variety Selected from PI 20798. Annual. Cultivar. Seed.
- PI 548444 **origin:** China. **historical origin:** United States. **origin institute:** USDA, Zhejiang. **cultivar:** Biloxi. **pedigree:** Variety name assigned directly to or variety Selected from PI 23211. Annual. Cultivar. Seed.
- PI 548445 **origin:** China. **historical origin:** United States. **cultivar:** CNS. **pedigree:** Selected from 'Clemson'. Annual. Cultivar. Seed.
- PI 548446 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Charlee. **pedigree:** Variety name assigned directly to or variety Selected from PI 71663. Annual. Cultivar. Seed.
- PI 548447 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Cherokee. **pedigree:** Variety name assigned directly to or variety Selected from PI 93057. **remarks:** Released by 1944. Annual. Cultivar. Seed.

PI 548436 to 548497-continued

- PI 548448 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Clemson. **pedigree:** Variety name assigned directly to or variety Selected from PI 71569. Annual. Cultivar. Seed.
- PI 548449 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Creole. **pedigree:** Variety name assigned directly to or variety Selected from PI 71614. Annual. Cultivar. Seed.
- PI 548450 **origin:** Korea, Republic of. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Delsoy. **pedigree:** Selected from PI 85355 PI 85355 is from the Agricultural Experiment Station, Suweon, Gyeonggi Do, South Korea, in 1930. **remarks:** Released by 1943. Annual. Cultivar. Seed.
- PI 548451 **origin:** United States. **origin institute:** Delta Experiment Station, Stoneville 38776. **cultivar:** Delsta. **pedigree:** Unknown. **other id:** Selection 6677. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548452 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Dixie. **pedigree:** Variety name assigned directly to or variety Selected from PI 37330. Annual. Cultivar. Seed.
- PI 548453 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Easycook. **pedigree:** Variety name assigned directly to or variety Selected from PI 34702. **remarks:** Released by 1923. Annual. Cultivar. Seed.
- PI 548454 **origin:** China. **historical origin:** United States. **origin institute:** Georgia AES, Georgia. **cultivar:** Gatan. **pedigree:** Selected from 'Otootan'. Annual. Cultivar. Seed.
- PI 548455 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Georgian. **pedigree:** Variety name assigned directly to or variety Selected from PI 71583. Annual. Cultivar. Seed.

PI 548436 to 548497-continued

- PI 548456 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Haberlandt. **pedigree:** Variety name assigned directly to or variety Selected from PI 6396. Annual. Cultivar. Seed.
- PI 548457 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Hahto. **pedigree:** Variety name assigned directly to or variety Selected from PI 40118. Annual. Cultivar. Seed.
- PI 548458 **origin:** United States. **cultivar:** Harrel. **pedigree:** Unknown. **remarks:** Released by 1950. Annual. Cultivar. Seed.
- PI 548459 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Hayseed. **pedigree:** Variety name assigned directly to or variety Selected from PI 71525. Annual. Cultivar. Seed.
- PI 548460 **origin:** Japan. **historical origin:** United States. **origin institute:** T.M. Wood and Sons, Richmond, Virginia. **cultivar:** Hollybrook. **pedigree:** Selected from 'Mammoth Yellow'. Annual. Cultivar. Seed.
- PI 548461 **origin:** United States. **origin institute:** Louisiana AES, Louisiana. **cultivar:** Improved Pelican. **pedigree:** Selected from 'Pelican' Pelican is from Tanloxi x PI 60406 and was released by 1943 PI 60406 is 'Cung Yien' from Nanping, Fujian, China, in 1924. **other id:** CV-18. **source:** Agron. J. 47(11):541 1955. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.
- PI 548462 **origin:** United States. **cultivar:** J.E.W. 45. **pedigree:** Selected from a mixed seed lot. Annual. Cultivar. Seed.
- PI 548463 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Laredo. **pedigree:** Variety name assigned directly to or variety Selected from PI 40658. **remarks:** Released by 1923. Annual. Cultivar. Seed.
- PI 548464 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Lexington. **pedigree:** Variety name assigned directly to or variety Selected from PI 17862. **other id:** PI 17863E. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548436 to 548497-continued

- PI 548465 **origin:** United States. **origin institute:** Louisiana AES, Louisiana. **cultivar:** Louisiana Green. **pedigree:** Selected from a hybrid population. **remarks:** Released by 1946. Annual. Cultivar. Seed.
- PI 548466 **origin:** United States. **cultivar:** Luthy. **pedigree:** Selected from 'Manchu'. **remarks:** Released by 1957. Annual. Cultivar. Seed.
- PI 548467 **origin:** Korea, Republic of. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Magnolia. **pedigree:** Variety name assigned directly to or variety Selected from PI 85537. **remarks:** Released by 1939. Annual. Cultivar. Seed.
- PI 548468 **origin:** United States. **origin institute:** Delta Experiment Station, Stoneville, Mississippi 38776. **cultivar:** Mamloxi. **pedigree:** Selected from a natural cross Mammoth Yellow x Biloxi. Annual. Cultivar. Seed.
- PI 548469 **origin:** Japan. **historical origin:** United States. **cultivar:** Mammoth Yellow. **pedigree:** Unknown. **other id:** Mammoth. **source:** Synonym. **remarks:** Released by 1895. Annual. Cultivar. Seed.
- PI 548470 **origin:** United States. **origin institute:** Delta Experiment Station, Stoneville, Mississippi 38776. **cultivar:** Mamotan 6640. **pedigree:** Selected from a natural cross Mammoth Yellow x Oootan. Annual. Cultivar. Seed.
- PI 548471 **origin:** United States. **origin institute:** Delta Experiment Station, Stoneville, Mississippi 38776. **cultivar:** Mamredo. **pedigree:** Mammoth Yellow x Laredo. Annual. Cultivar. Seed.
- PI 548472 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Missoy. **pedigree:** Variety name assigned directly to or variety Selected from PI 71664. Annual. Cultivar. Seed.
- PI 548473 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Monetta. **pedigree:** Variety name assigned directly to or variety Selected from PI 71608. Annual. Cultivar. Seed.

PI 548436 to 548497-continued

- PI 548474 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Nanda. **pedigree:** Variety name assigned directly to or variety Selected from PI 95727. Annual. Cultivar. Seed.
- PI 548475 **origin:** United States. **cultivar:** Nansemond. **pedigree:** Unknown. **remarks:** Released by 1950. Annual. Cultivar. Seed.
- PI 548476 **origin:** United States. **origin institute:** Louisiana AES, Louisiana. **cultivar:** Nela. **pedigree:** Selected from 'Mamotan 6680' Mamotan 6680 is from Mammoth Yellow x Ootootan. Annual. Cultivar. Seed.
- PI 548477 **origin:** United States. **origin institute:** Tennessee AES, Tennessee. **cultivar:** Ogden. **pedigree:** Tokyo x PI 54610 PI 54610 is from Changchun, Jilin, China, in 1921. **other id:** CV-13. **source:** Agron. J. 45(11):570 1953. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.
- PI 548478 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Shandong. **cultivar:** Old Dominion. **pedigree:** Variety name assigned directly to or variety Selected from PI 44512. Annual. Cultivar. Seed.
- PI 548479 **origin:** China. **historical origin:** United States. **origin institute:** Georgia AES, Experiment, Georgia. **cultivar:** Ootootan. **pedigree:** Unknown. **remarks:** Released by 1918. Annual. Cultivar. Seed.
- PI 548480 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Palmetto. **pedigree:** Variety name assigned directly to or variety Selected from PI 71587. Annual. Cultivar. Seed.
- PI 548481 **origin:** United States. **cultivar:** Pine Dell Perfection. **pedigree:** Selected from a natural cross. **remarks:** Released by 1937. Annual. Cultivar. Seed.
- PI 548482 **origin:** China. **historical origin:** United States. **origin institute:** Coastal Plains Experiment Station, Tifton, Georgia. **cultivar:** Pluto. **pedigree:** Variety name assigned directly to or variety Selected from PI 72219. Annual. Cultivar. Seed.
- PI 548483 **origin:** United States. **cultivar:** Pocahontas. **pedigree:** Unknown. **remarks:** Released by 1950. Annual. Cultivar. Seed.

PI 548436 to 548497-continued

- PI 548484 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **cultivar:** Ralsoy. **pedigree:** Selected from 'Arksoy'. Annual. Cultivar. Seed.
- PI 548485 **origin:** China. **historical origin:** United States. **origin institute:** North Carolina AES and USRSL, North Carolina. **cultivar:** Roanoke. **pedigree:** A rogue in 'Nanking' Nanking was PI 71597 from the University of Nanjing, Nanjing, China, in 1927. **other id:** CV-11. **source:** Agron. J. 45(7):326 1953. **group:** CSR-SOYBEAN. **other id:** N41-90. **source:** Prior designation. Annual. Cultivar. Seed.
- PI 548486 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Rokusun. **pedigree:** Selected from PI 80481 PI 80481 is 'Rokusun Daizu' from Tokyo, Japan, in 1929. Annual. Cultivar. Seed.
- PI 548487 **origin:** Korea, Dem Peoples Rep of. **historical origin:** United States. **cultivar:** Rose Non Pop. **pedigree:** Selected from 'Haberlandt'. Annual. Cultivar. Seed.
- PI 548488 **origin:** United States. **origin institute:** Missouri AES, Missouri. **cultivar:** S-100. **pedigree:** Selected from 'Illini' in 1938 by Lee Mumford, farmer, Rutledge, Missouri. Reselected in 1942 by the Missouri AES. Annual. Cultivar. Seed.
- PI 548489 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Seminole. **pedigree:** Variety name assigned directly to or variety Selected from PI 93058. **remarks:** Released by 1943. Annual. Cultivar. Seed.
- PI 548490 **origin:** China. **historical origin:** United States. **origin institute:** Jacob Hartz Seed Company, Stuttgart, Arkansas. **cultivar:** Tanner. **pedigree:** Selected from 'Otootan'. Annual. Cultivar. Seed.
- PI 548491 **origin:** China. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Tarheel Black. **pedigree:** Variety name assigned directly to or variety Selected from PI 14952. **other id:** Shanghai. **source:** Prior name. Annual. Cultivar. Seed.
- PI 548492 **origin:** United States. **origin institute:** Tennessee AES, Tennessee. **cultivar:** Tennessee Non Pop. **pedigree:** Variety name assigned directly to or variety Tokyo x PI 54610. Annual. Cultivar. Seed.

PI 548436 to 548497-continued

PI 548493 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA Arlington Farm, Arlington, Virginia 22200. **cultivar:** Tokyo. **pedigree:** Variety name assigned directly to or variety Selected from PI 8424. Annual. Cultivar. Seed.

PI 548494 **origin:** United States. **origin institute:** Tennessee AES, Tennessee. **cultivar:** Volstate. **pedigree:** Tokyo x PI 54610 PI 54610 is from Changchun, Jilin, China, in 1921. Annual. Cultivar. Seed.

PI 548495 **origin:** China. **historical origin:** United States. **origin institute:** Delta Experiment Station, Stoneville, Mississippi 38776. **cultivar:** White Biloxi. **pedigree:** Selected from 'Biloxi' in 1925. **remarks:** Released by 1939. Annual. Cultivar. Seed.

PI 548496 **origin:** Japan. **historical origin:** United States. **origin institute:** T.W. Woods and Sons, Richmond, Virginia. **cultivar:** Woods Yellow. **pedigree:** Selected from 'Mammoth Yellow'. Annual. Cultivar. Seed.

PI 548497 **origin:** United States. **origin institute:** Coker's Pedigreed Seed Company, Hartsville, South Carolina. **cultivar:** Yelredo. **pedigree:** Selected from a natural cross Mammoth Yellow x Laredo. **other id:** Coker 319. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548498. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: University of Manitoba, Winnipeg, Manitoba, Canada. Received 1954.

origin: Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Ottawa, Ontario. **cultivar:** Acme. **pedigree:** From 'Pagoda' in 1946. **other id:** CV-25. **source:** Agron. J. 52(11):659 1960. **group:** CSR-SOYBEAN. **other id:** O17. **source:** Prior designation. **other id:** P-17. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548499 to 548501. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Lambert, J.W., University of Minnesota, Department of Agronomy & Plant Genetics, St. Paul, Minnesota, United States. Received 1970.

PI 548499 to 548501-continued

PI 548499 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Ada. **pedigree:** Merit x Norman. **other id:** CV-101. **source:** Crop Sci. 13(5):582 1973. **group:** CSR-SOYBEAN. **other id:** M61-60. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548500 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Swift. **pedigree:** II-54-240 x II-54-132 (Renville x Capital) II-54-240 is from Korean x II-42-37 (Lincoln(2) x Richland). **other id:** CV-103. **source:** Crop Sci. 13(5):583 1973. **group:** CSR-SOYBEAN. **other id:** M59-121. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548501 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Wilkin. **pedigree:** Merit x Harosoy. **other id:** CV-104. **source:** Crop Sci. 13(5):583 1973. **group:** CSR-SOYBEAN. **other id:** M61-52. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548502. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Weber, Charles R., Iowa State College, Department of Agronomy, Ames, Iowa, United States. Received 1956.

origin: United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Adams. **pedigree:** Illini x Dunfield. **other id:** CV-7. **source:** Agron. J. 45(7):326 1953. **group:** CSR-SOYBEAN. **other id:** A45-2683. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548503. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Probst, Albert H., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received May 1965.

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Adelpia. **pedigree:** C1070 x Adams C1070 is from C985 (Lincoln x Ogden), a 'Kent' progenitor. **other id:** CV-48. **source:** Crop Sci. 5(5):483 1965. **group:** CSR-SOYBEAN. **other id:** C1225. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548504. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: University of Minnesota, St. Paul, Minnesota, United States. Received 1966.

origin: Canada. **origin institute:** University of Manitoba, Winnipeg, Manitoba. **cultivar:** Altona. **pedigree:** Flambeau x O52-903 O52-903 is PI 194654 which is Holmberg 753-1 from Sweden Holmberg 753-1 is from Pagoda x Fiskeby III (PI 196491). **other id:** CV-71. **source:** Crop Sci. 8(6):777 1968. **group:** CSR-SOYBEAN. **other id:** S59-377. **source:** Prior designation. **other id:** UML5. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548505. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Cooper, Richard L., Ohio Agr. Res. and Dev. Center, Ohio State University, Department of Agronomy, Wooster, Ohio, United States. Received 1979.

origin: United States. **origin institute:** Ohio Agr. Res. and Dev. Center, Wooster, Ohio. **cultivar:** Amcor. **pedigree:** Amsoy 71 x Corsoy. **other id:** PVP 8000034. **source:** Certificate in force. **group:** PVPO. **other id:** CV-149. **source:** Crop Sci. 21(4):633 1981. **group:** CSR-SOYBEAN. **other id:** L73D-195. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548506. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Weber, Charles R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1962.

origin: United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Amsoy. **pedigree:** Adams x Harosoy. **other id:** CV-57. **source:** Crop Sci. 6(6):611 1966. **group:** CSR-SOYBEAN. **other id:** A61-939. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548507. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Wilcox, James R., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1972.

PI 548507-continued

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Amsoy 71. **pedigree:** Amsoy(8) x C1253 (Blackhawk x Harosoy). **other id:** PVP 7200083. **source:** Expired (terminated). **group:** PVPO. **other id:** CV-91. **source:** Crop Sci. 12(3):396 1972. **group:** CSR-SOYBEAN. **other id:** CX407BC7. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548508 to 548509. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Iowa State University, Ames, Iowa, United States. Received 1968.

PI 548508 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Anoka. **pedigree:** II-42-37 (Lincoln(2) x Richland) x Korean. **other id:** CV-83. **source:** Crop Sci. 11(1):135 1971. **group:** CSR-SOYBEAN. **other id:** M54-160. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548509 **origin:** United States. **origin institute:** Wisconsin Agr. Exp. Sta., Madison, Wisconsin. **cultivar:** Dunn. **pedigree:** Grant x Chippewa. **other id:** CV-82. **source:** Crop Sci. 10(6):729 1970. **group:** CSR-SOYBEAN. **other id:** W61-4221. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548510. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Probst, Albert H., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1967.

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Beeson. **pedigree:** C1253 (Blackhawk x Harosoy) x Kent. **other id:** CV-73. **source:** Crop Sci. 9(4):523 1969. **group:** CSR-SOYBEAN. **other id:** C1429. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548511 to 548513. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Wilcox, James R., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1978.

PI 548511 to 548513-continued

PI 548511 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Beeson 80. **pedigree:** Beeson(8) x Arksoy. **other id:** PVP 7900097. **source:** Certificate in force. **group:** PVPO. **other id:** CV-133. **source:** Crop Sci. 20(3):414 1980. **group:** CSR-SOYBEAN. **other id:** C Beeson PR3. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548512 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Century. **pedigree:** Calland x Bonus. **other id:** PVP 7900098. **source:** Certificate in force. **group:** PVPO. **other id:** CV-135. **source:** Crop Sci. 20(3):415 1980. **group:** CSR-SOYBEAN. **other id:** C1545. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548513 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Wells II. **pedigree:** Wells(8) x Arksoy. **other id:** PVP 7900073. **source:** Certificate in force. **group:** PVPO. **other id:** CV-122. **source:** Crop Sci. 19(2):296 1979. **group:** CSR-SOYBEAN. **other id:** Wells BC6. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548514. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Springer, Jr., Frank B., University of Delaware, Department of Agronomy, Newark, Delaware, United States. Received March 1961.

origin: United States. **origin institute:** Delaware Agr. Exp. Sta., Newark, Delaware. **cultivar:** Bethel. **pedigree:** FC 33243 x Perry. **other id:** CV-63. **source:** Crop Sci. 7(3):279 1967. **group:** CSR-SOYBEAN. **other id:** UD321-5. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548515. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Beversdorf, W.D., University of Guelph, Crop Science Department, Guelph, Ontario, Canada. Received September 1985.

origin: Canada. **origin institute:** University of Guelph, Guelph, Ontario. **cultivar:** Bicentennial. **pedigree:** Fiskeby V (PI 360955) x Harosoy 63. **other id:** OAC81-2. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548516. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Iowa State College, Ames, Iowa, United States. Received 1956.

origin: United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Blackhawk. **pedigree:** Mukden x Richland. **other id:** CV-9. **source:** Agron. J. 45(7):326 1953. **group:** CSR-SOYBEAN. **other id:** A46K-937. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548517 to 548518. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Wilcox, James R., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1968.

PI 548517 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Bonus. **pedigree:** C1266R (Harosoy x C1079) x C1253 (Blackhawk x Harosoy) C1079 is from C985 (Lincoln x Ogden), a 'Kent' progenitor. **other id:** PVP 7200126. **source:** Expired (terminated). **group:** PVPO. **other id:** CV-90. **source:** Crop Sci. 12(3):396 1972. **group:** CSR-SOYBEAN. **other id:** C1474. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548518 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Cutler 71. **pedigree:** Cutler(4) x SL5 [(Kent(7) x L49-4196) x (Kent(8) x Mukden)] L49-4196 is from (F3 Lincoln(2) x Richland) x (F1 Lincoln x CNS). **other id:** PVP 7200082. **source:** Expired (terminated). **group:** PVPO. **other id:** CV-89. **source:** Crop Sci. 11(6):941 1971. **group:** CSR-SOYBEAN. **other id:** C1481. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548519 to 548520. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received March 1986.

PI 548519 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** BSR 101. **pedigree:** L69U40-16-4 (Amsoy x Calland) x A76-304020 A76-304020 is from (Beeson x AP68-1016) x (L15 x Calland) AP68-1016 is from Clark(5) x PI 84946-2 L15 is from Wayne(6) x Clark 63. **other id:** CV-196. **source:** Crop Sci. 27(3):612 1987. **group:** CSR-SOYBEAN. **other id:** A80-149020. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548519 to 548520-continued

PI 548520 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Preston. **pedigree:** Schechinger S48 (IVR 1120 x SL12) x Land O Lakes Max IVR 1120 is from Provar x (Amsoy x PI 91110-1) SL12 from [(Wayne(6) x Clark 63) x (Wayne(4) x L11)] x SL9 L11 is from (Clark(6) x T201) x (Clark(6) x T145). **other id:** CV-197. **source:** Crop Sci. 27(3):612 1987. **group:** CSR-SOYBEAN. **other id:** A81-257031. **source:** Prior designation. **remarks:** SL9 is from Wayne(10) x Kanrich Land O Lakes Max is from [Wayne x (Clark x Adams)] x Cutler. Annual. Cultivar. Seed.

PI 548521. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received December 1982.

origin: United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** BSR 201. **pedigree:** Pride B216 (Corsoy x Wayne) x AX901-40-2 AX901-40-2 is from Beeson x AP68-1022 AP68-1022 is from Clark(5) x PI 84946-2. **other id:** PVP 8300091. **source:** Certificate in force. **group:** PVPO. **other id:** CV-163. **source:** Crop Sci. 23(1):186 1983. **group:** CSR-SOYBEAN. **other id:** A78-227013. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548522 to 548524. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received May 01, 1979.

PI 548522 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** BSR 301. **pedigree:** L15 (Wayne(6) x Clark 63) x AP68-1016 AP68-1016 is from Clark(5) x PI 84946-2. **other id:** PVP 8000062. **source:** Certificate in force. **group:** PVPO. **other id:** CV-134. **source:** Crop Sci. 20(3):414 1980. **group:** CSR-SOYBEAN. **other id:** A75-302005. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548523 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Pella. **pedigree:** L66L-137 [Wayne x L57-0034 (Clark x Adams)] x Calland. **other id:** PVP 8000063. **source:** Certificate in force. **group:** PVPO. **other id:** CV-136. **source:** Crop Sci. 20(3):415 1980. **group:** CSR-SOYBEAN. **other id:** A74-302012. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548522 to 548524-continued

PI 548524 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Weber. **pedigree:** C1453 [C1266R (Harosoy x C1079) x C1253] x Swift C1079 is from C985 (Lincoln x Ogden), a 'Kent' progenitor C1253 is from Blackhawk x Harosoy. **other id:** PVP 8000061. **source:** Certificate in force. **group:** PVPO. **other id:** CV-137. **source:** Crop Sci. 20(3):415 1980. **group:** CSR-SOYBEAN. **other id:** A75-102032. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548525 to 548526. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1980.

PI 548525 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** BSR 302. **pedigree:** (Beeson x AP68-1016) x (L15 x Calland) AP68-1016 is from Clark(5) x PI 84946-2 L15 is from Wayne(6) x Clark 63. **other id:** PVP 8100053. **source:** Certificate in force. **group:** PVPO. **other id:** CV-164. **source:** Crop Sci. 23(1):186 1983. **group:** CSR-SOYBEAN. **other id:** A76-304019. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548526 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Hardin. **pedigree:** Corsoy(3) x Cutler 71. **other id:** PVP 8100052. **source:** Certificate in force. **group:** PVPO. **other id:** CV-165. **source:** Crop Sci. 23(2):402 1983. **group:** CSR-SOYBEAN. **other id:** A76-102009. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548527 to 548528. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Probst, Albert H., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1966.

PI 548527 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Calland. **pedigree:** C1253 (Blackhawk x Harosoy) x Kent. **other id:** CV-74. **source:** Crop Sci. 9(4):524 1969. **group:** CSR-SOYBEAN. **other id:** C1437. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548527 to 548528-continued

PI 548528 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Protana. **pedigree:** CX291-42-1 (Mukden x C1069) x CX258-2-3-2 (PI 65338 x C1079) C1069 is from C985 (Lincoln x Ogden), a 'Kent' progenitor C1079 is from C985 (Lincoln x Ogden), a 'Kent' progenitor. **other id:** CV-86. **source:** Crop Sci. 11(2):312 1971. **group:** CSR-SOYBEAN. **other id:** C1376. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548529. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ohio Agr. Res. and Dev. Center, Ohio State University, Department of Agronomy, Wooster, Ohio, United States. Received July 1984.

origin: United States. **origin institute:** Ohio Agr. Res. and Dev. Center, Wooster, Ohio. **cultivar:** Century 84. **pedigree:** Century(5) x Williams 82. **other id:** PVP 8500058. **source:** Certificate in force. **group:** PVPO. **other id:** CV-188. **source:** Crop Sci. 26(1):199 1986. **group:** CSR-SOYBEAN. **other id:** HW8185. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548530. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Torrie, James H., University of Wisconsin, Department of Agronomy, Madison, Wisconsin, United States. **remarks:** Seeds produced in Spooner, Wisconsin. Received 1955.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Chippewa. **pedigree:** Lincoln(2) x Richland. **other id:** CV-19. **source:** Agron. J. 50(11):690 1958. **group:** CSR-SOYBEAN. **other id:** L46-8275. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548531 to 548532. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, Richard L., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1961.

PI 548531 **origin:** United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Chippewa 64. **pedigree:** Chippewa(8) x Blackhawk. **other id:** CV-42. **source:** Crop Sci. 4(6):664 1964. **group:** CSR-SOYBEAN. **other id:** Ll. **source:** Prior designation. **remarks:** Rps1. Annual. Cultivar. Seed.

PI 548531 to 548532-continued

PI 548532 **origin:** United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Clark 63. **pedigree:** [Clark(6) x (Lincoln x CNS)] x (Clark(6) x Blackhawk) The female parent was actually Clark(4) x S54-1714 S54-1714 is from L49-4091 x Clark L49-4091 is from (Lincoln(2) x Richland) x (Lincoln x CNS). **other id:** CV-39. **source:** Crop Sci. 4(6):663 1964. **group:** CSR-SOYBEAN. **other id:** SL1. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548533. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Illinois Foundation Seeds, Tolono, Illinois, United States. Received 1952.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Clark. **pedigree:** Lincoln(2) x Richland. **other id:** CV-20. **source:** Agron. J. 50(11):690 1958. **group:** CSR-SOYBEAN. **other id:** L49-5138. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548534 to 548535. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Lambert, Jean W., University of Minnesota, Department of Agronomy & Plant Genetics, St. Paul, Minnesota, United States. Received 1967.

PI 548534 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Clay. **pedigree:** Renville x Capital. **other id:** CV-76. **source:** Crop Sci. 9(4):525 1969. **group:** CSR-SOYBEAN. **other id:** II-54-53. **source:** Prior designation. **other id:** M393. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548535 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Norman. **pedigree:** Acme x Hardome. **other id:** CV-84. **source:** Crop Sci. 11(1):135 1971. **group:** CSR-SOYBEAN. **other id:** M424. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548536 to 548537. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received September 1976.

PI 548536 to 548537-continued

PI 548536 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Coles. **pedigree:** Hark x [Provar x (Disoy x Magna)]. **other id:** PVP 7700050. **source:** Certificate in force. **group:** PVPO. **other id:** CV-112. **source:** Crop Sci. 17(5):824 1977. **group:** CSR-SOYBEAN. **other id:** A73-128. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548537 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Marion. **pedigree:** Amsoy x [Provar x (Disoy x Magna)]. **other id:** PVP 7700051. **source:** Certificate in force. **group:** PVPO. **other id:** CV-113. **source:** Crop Sci. 17(5):824 1977. **group:** CSR-SOYBEAN. **other id:** A73-227. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548538. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Kansas State University, Department of Agronomy, Manhattan, Kansas, United States. Received 1971.

origin: United States. **origin institute:** Kansas Agr. Exp. Sta., Manhattan, Kansas. **cultivar:** Columbus. **pedigree:** C1069 x Clark C1069 is from C985 (Lincoln x Ogden), a 'Kent' progenitor. **other id:** CV-92. **source:** Crop Sci. 12(3):396 1972. **group:** CSR-SOYBEAN. **other id:** K62-7221. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548539. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Central Experimental Farm, Ottawa, Ontario, Canada. Received 1955.

origin: Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Ottawa, Ontario. **cultivar:** Comet. **pedigree:** Pagoda x Mandarin (Ottawa). **other id:** CV-27. **source:** Agron. J. 52(11):659 1960. **group:** CSR-SOYBEAN. **other id:** O48-36. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548540. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Weber, Charles R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1963.

PI 548540-continued

origin: United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Corsoy. **pedigree:** Harosoy x Capital. **other id:** CV-81. **source:** Crop Sci. 10(6):729 1970. **group:** CSR-SOYBEAN. **other id:** A61-439. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548541 to 548543. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Illinois Foundation Seeds, Tolono, Illinois, United States. Received 1977.

PI 548541 **origin:** United States. **origin institute:** Kansas Agr. Exp. Sta., Manhattan, Kansas. **cultivar:** Crawford. **pedigree:** Williams x Columbus. **other id:** PVP 7800077. **source:** Certificate in force. **group:** PVPO. **other id:** CV-125. **source:** Crop Sci. 19(3):412 1979. **group:** CSR-SOYBEAN. **other id:** K1019. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548542 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Cumberland. **pedigree:** Corsoy x Williams. **other id:** PVP 7900061. **source:** Certificate in force. **group:** PVPO. **other id:** CV-139. **source:** Crop Sci. 20(5):672 1980. **group:** CSR-SOYBEAN. **other id:** A74-303012. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548543 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Oakland. **pedigree:** L66L-137 [Wayne x L57-0034 (Clark x Adams)] x Calland. **other id:** PVP 7900062. **source:** Certificate in force. **group:** PVPO. **other id:** CV-140. **source:** Crop Sci. 20(5):673 1980. **group:** CSR-SOYBEAN. **other id:** A74-303013. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548544 to 548545. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Dimmock, F., Central Experimental Farm, Ottawa, Ontario, Canada. Received April 12, 1957.

PI 548544 **origin:** Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Ottawa, Ontario. **cultivar:** Crest. **pedigree:** F8-291 (Manitoba Brown x Mandarin) x Mandarin The crossing was done at Ottawa and presumably 'Mandarin (Ottawa)' was the strain used. **other id:** O51-318. **source:** Prior designation. **other id:** O51-322. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548544 to 548545-continued

PI 548545 **origin:** Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Ottawa, Ontario. **cultivar:** Merit. **pedigree:** Blackhawk x Capital. **other id:** CV-32. **source:** Agron. J. 52(11):659 1960. **group:** CSR-SOYBEAN. **other id:** O55-2065. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548546. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Luedders, Virgil D., University of Missouri, Department of Field Crops, Columbia, Missouri, United States. Received March 22, 1966.

origin: United States. **origin institute:** Missouri Agr. Exp. Sta., Columbia, Missouri. **cultivar:** Custer. **pedigree:** {[(Peking x Scott(4))(3) x (i-i Rhg4 line from Peking x Scott(2))] x (Scott(9) x Blackhawk)} x (Peking x Scott(5)). **other id:** CV-68. **source:** Crop Sci. 8(3):402 1968. **group:** CSR-SOYBEAN. **other id:** S5. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548547. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, Richard L., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1967.

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Cutler. **pedigree:** C1069 x Clark C1069 is from C985 (Lincoln x Ogden), a 'Kent' progenitor. **other id:** CV-75. **source:** Crop Sci. 9(4):524 1969. **group:** CSR-SOYBEAN. **other id:** C1278. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548548. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Crittenden, H. William, University of Delaware, Department of Agronomy, Newark, Delaware, United States. Received 1962.

origin: United States. **origin institute:** Delaware Agr. Exp. Sta., Newark, Delaware. **cultivar:** Delmar. **pedigree:** C799 x FC 33243 C799 is from C143 (PI 70218-2-6-7, 'Patoka' sib) x Lincoln. **other id:** CV-62. **source:** Crop Sci. 7(3):279 1967. **group:** CSR-SOYBEAN. **other id:** UD672. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548549. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Kansas State University, Department of Agronomy, Manhattan, Kansas, United States. Received February 1980.

origin: United States. **origin institute:** Kansas Agr. Exp. Sta., Manhattan, Kansas. **cultivar:** DeSoto. **pedigree:** L66L-140 [Wayne x L57-0034 (Clark x Adams)] x Columbus. **other id:** PVP 8100031. **source:** Certificate in force. **group:** PVPO. **other id:** CV-132. **source:** Crop Sci. 20(2):288 1980. **group:** CSR-SOYBEAN. **other id:** K1024. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548550 to 548554. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Weber, Charles R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1965.

PI 548550 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Disoy. **pedigree:** (F6 line from Mandarin (Ottawa) x Kanro) x (F6 line from Richland x Jogun). **other id:** CV-65. **source:** Crop Sci. 7(4):403 1967. **group:** CSR-SOYBEAN. **other id:** AX80-21. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548551 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Hark. **pedigree:** Hawkeye x Harosoy. **other id:** CV-64. **source:** Crop Sci. 7(4):403 1967. **group:** CSR-SOYBEAN. **other id:** A61-540. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548552 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Kanrich. **pedigree:** Kanro(2) x Richland. **other id:** CV-55. **source:** Crop Sci. 6(4):391 1966. **group:** CSR-SOYBEAN. **other id:** A50-5039. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548553 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Magna. **pedigree:** (F6 line from Mandarin (Ottawa) x Jogun) x (F6 line from Mandarin (Ottawa) x Kanro). **other id:** CV-66. **source:** Crop Sci. 7(4):403 1967. **group:** CSR-SOYBEAN. **other id:** AX84-90. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548554 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Prize. **pedigree:** (F6 line from Mandarin (Ottawa) x Jogun) x (F6 line from Mandarin (Ottawa) x Kanro). **other id:** CV-67. **source:** Crop Sci. 7(4):404 1967. **group:** CSR-SOYBEAN. **other id:** AX84-98. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548555. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Nickell, Cecil D., Kansas State University, Department of Agronomy, Manhattan, Kansas, United States. Received March 16, 1981.

origin: United States. **origin institute:** Kansas Agr. Exp. Sta., Manhattan, Kansas. **cultivar:** Douglas. **pedigree:** Williams x Calland. **other id:** PVP 8100148. **source:** Certificate in force. **group:** PVPO. **other id:** CV-154. **source:** Crop Sci. 22(1):160 1982. **group:** CSR-SOYBEAN. **other id:** K1033. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548556. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Cooper, Richard L., Ohio Agr. Res. and Dev. Center, Ohio State University, Department of Agronomy, Wooster, Ohio, United States. Received 1977.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Elf. **pedigree:** Williams x Ransom. **other id:** CV-150. **source:** Crop Sci. 21(4):633 1981. **group:** CSR-SOYBEAN. **other id:** L74D-611. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548557 to 548558. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received September 1984.

PI 548557 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Elgin. **pedigree:** F4 selection from the population AP6 See Crop Science 15:739 for description of population AP6. **other id:** CV-173. **source:** Crop Sci. 24(2):385 1984. **group:** CSR-SOYBEAN. **other id:** A79-133019. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548558 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Harper. **pedigree:** F4 selection from an unknown diallel-cross population. **other id:** CV-172. **source:** Crop Sci. 24(2):385 1984. **group:** CSR-SOYBEAN. **other id:** A79-336014. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548559. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Crittenden, H. William, University of Delaware, Department of Agronomy, Newark, Delaware, United States. Received June 1975.

origin: United States. **origin institute:** Delaware Agr. Exp. Sta., Newark, Delaware. **cultivar:** Emerald.
pedigree: Aoda x (Hahto x Kent). **other id:** PVP 7500052.
source: Certificate in force. **group:** PVPO. **other id:** UD65-3217. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548560 to 548561. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Lambert, Jean W., University of Minnesota, Department of Agronomy & Plant Genetics, St. Paul, Minnesota, United States. Received 1973.

PI 548560 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Evans.
pedigree: Merit x Harosoy. **other id:** PVP 7400105.
source: Certificate in force. **group:** PVPO. **other id:** CV-109. **source:** Crop Sci. 15(5):735 1975. **group:** CSR-SOYBEAN. **other id:** M61-96. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548561 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Hodgson.
pedigree: Corsoy x M372 [M10 (Lincoln(2) x Richland) x PI 180501] PI 180501 was selected in West Germany from Mandschurische Herkunft x USA 54616. **other id:** PVP 7400106. **source:** Certificate in force. **group:** PVPO. **other id:** CV-110. **source:** Crop Sci. 15(5):735 1975. **group:** CSR-SOYBEAN. **other id:** M63-217Bf. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548562. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Weber, Charles R., Iowa State College, Department of Agronomy, Ames, Iowa, United States. Received 1957.

origin: United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Ford. **pedigree:** Lincoln(2) x Richland. **other id:** CV-28. **source:** Agron. J. 52(11):659 1960. **group:** CSR-SOYBEAN. **other id:** A50-8618-2. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548563. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, Richard L., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1977.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Franklin.
pedigree: L12 (Clark 63 isoline) x Custer. **other id:** CV-144. **source:** Crop Sci. 20(6):825 1980. **group:** CSR-SOYBEAN. **other id:** L71L-436. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548564. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Williams, James H., University of Nebraska, Department of Agronomy, Lincoln, Nebraska, United States. Received August 1985.

origin: United States. **origin institute:** Nebraska Agr. Exp. Sta., Manhattan, Nebraska. **cultivar:** Fremont.
pedigree: Williams x Amsoy 71. **other id:** CV-190.
source: Crop Sci. 26(3):648 1986. **group:** CSR-SOYBEAN.
other id: U76360. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548565 to 548566. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Illinois Foundation Seeds, Tolono, Illinois, United States. Received May 02, 1979.

PI 548565 **origin:** United States. **origin institute:** Ohio Agr. Res. and Dev. Center, Wooster, Ohio. **cultivar:** Gnome.
pedigree: Williams x Ransom. **other id:** PVP 8000033.
source: Certificate in force. **group:** PVPO. **other id:** CV-151. **source:** Crop Sci. 21(4):634 1981. **group:** CSR-SOYBEAN. **other id:** HW74-618. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548566 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., Lincoln, Nebraska. **cultivar:** Nebsoy.
pedigree: C1432 (C1253 x Kent) x C1430 (C1253 x Kent) C1253 is from Blackhawk x Harosoy. **other id:** PVP 8000031. **source:** Certificate in force. **group:** PVPO. **other id:** CV-138. **source:** Crop Sci. 20(3):416 1980. **group:** CSR-SOYBEAN. **other id:** U11406. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548567. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Lambert, Jean W., University of Minnesota, Department of Agronomy & Plant Genetics, St. Paul, Minnesota, United States.
Received January 24, 1976.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Grande.
pedigree: Anoka x Magna. **other id:** CV-115. **source:** Crop Sci. 17(5):824 1977. **group:** CSR-SOYBEAN. **other id:** M65-295. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548568. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: University of Minnesota, St. Paul, Minnesota, United States. Received 1955.

origin: United States. **origin institute:** Wisconsin Agr. Exp. Sta., Madison, Wisconsin. **cultivar:** Grant.
pedigree: Lincoln x Seneca. **other id:** CV-21. **source:** Agron. J. 50(11):690 1958. **group:** CSR-SOYBEAN. **other id:** W46S-292. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548569. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Nickell, Cecil D., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received August 1984.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Hack. **pedigree:** L70T-543G x K1028 (Williams x Calland) L70T-543G is from L15 (Wayne(6) x Clark 63) x Amsoy 71. **other id:** PVP 8500179. **source:** Certificate in force. **group:** PVPO. **other id:** CV-185. **source:** Crop Sci. 25(6):1128 1985. **group:** CSR-SOYBEAN. **other id:** LN78-1136. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548570. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Buzzell, Richard I., Harrow Research Station, Harrow, Ontario, Canada. Received March 27, 1975.

origin: Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Harrow, Ontario. **cultivar:** Harcor. **pedigree:** Corsoy x OX383 (Corsoy x Harosoy 63). **other id:** CV-119. **source:** Crop Sci. 18(5):915 1978. **group:** CSR-SOYBEAN. **other id:** OX271. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548571. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Buzzell, Richard I., Harrow Research Station, Harrow, Ontario, Canada. Received 1973.

origin: Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Harrow, Ontario. **cultivar:** Harlon. **pedigree:** Blackhawk x Harosoy 63. **other id:** OX643. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548572. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Owen, C.W., Harrow Experiment Station, Harrow, Ontario, Canada. Received 1950.

origin: Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Harrow, Ontario. **cultivar:** Harly. **pedigree:** Mandarin (Ottawa) x A.K. (Harrow). **other id:** 1B/41. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548573 to 548574. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1956.

PI 548573 **origin:** Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Harrow, Ontario. **cultivar:** Harosoy. **pedigree:** Mandarin (Ottawa)(2) x A.K. (Harrow). **other id:** CV-17. **source:** Agron. J. 47(11):541 1955. **group:** CSR-SOYBEAN. **other id:** 3-23/45. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548574 **origin:** United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Shelby. **pedigree:** Lincoln(2) x Richland. **other id:** CV-33. **source:** Agron. J. 52(11):659 1960. **group:** CSR-SOYBEAN. **other id:** L49-5139. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548575. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Purdue University, West Lafayette, Indiana, United States. Received 1960.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Harosoy 63. **pedigree:** Harosoy(8) x Blackhawk. **other id:** CV-41. **source:** Crop Sci. 4(6):663 1964. **group:** CSR-SOYBEAN. **other id:** L59g-1R. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548576. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Buzzell, Richard I., Harrow Research Station, Harrow, Ontario, Canada. Received 1967.

origin: Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Harrow, Ontario. **cultivar:** Harwood.
pedigree: Harosoy 63 x C1270 (Mandarin (Ottawa) x Clark).
other id: O-378-28. **source:** Prior designation. Annual.
Cultivar. Seed.

PI 548577. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Iowa State College, Ames, Iowa, United States. Received 1955.

origin: United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Hawkeye. **pedigree:** Mukden x Richland. **other id:** CV-6. **source:** Agron. J. 45(7):326 1953. **group:** CSR-SOYBEAN. **other id:** A43-107. **source:** Prior designation. **other id:** A43-108. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548578. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, Richard L., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1960.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Hawkeye 63.
pedigree: Hawkeye(7) x Blackhawk. **other id:** CV-40.
source: Crop Sci. 4(6):663 1964. **group:** CSR-SOYBEAN.
other id: L59g-2R. **source:** Prior designation. Annual.
Cultivar. Seed.

PI 548579 to 548580. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Smith, Paul E., Ohio State University, Department of Agronomy, Columbus, Ohio, United States. Received 1957.

PI 548579 **origin:** United States. **origin institute:** Ohio Agr. Exp. Sta., Columbus, Ohio. **cultivar:** Henry. **pedigree:** Richland x H2 (Dunfield x Illini). **other id:** CV-34.
source: Crop Sci. 2(6):534 1962. **group:** CSR-SOYBEAN.
other id: H21793-7. **source:** Prior designation. Annual.
Cultivar. Seed.

PI 548579 to 548580-continued

PI 548580 **origin:** United States. **origin institute:** Ohio Agr. Exp. Sta., Columbus, Ohio. **cultivar:** Madison. **pedigree:** Monroe x Lincoln. **other id:** CV-35. **source:** Crop Sci. 2(6):534 1962. **group:** CSR-SOYBEAN. **other id:** H20771-9. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548581 to 548582. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Lambert, Jean W., University of Minnesota, Department of Agronomy & Plant Genetics, St. Paul, Minnesota, United States. Received April 1978.

PI 548581 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Hodgson 78. **pedigree:** Hodgson(7) x Merit. **other id:** PVP 7800085. **source:** Certificate in force. **group:** PVPO. **other id:** CV-123. **source:** Crop Sci. 19(2):296 1979. **group:** CSR-SOYBEAN. **other id:** M75-1. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548582 **origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** McCall. **pedigree:** M433 (Acme x Chippewa) x Hark. **other id:** CV-124. **source:** Crop Sci. 19(2):297 1979. **group:** CSR-SOYBEAN. **other id:** M65-217. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548583 to 548585. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Wilcox, James R., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received December 1984.

PI 548583 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Keller. **pedigree:** Beeson 80(7) x PRX9-249 (PI 86972-1 x PI 54615-1). **other id:** PVP 8400083. **source:** Certificate in force. **group:** PVPO. **other id:** CV-174. **source:** Crop Sci. 24(4):824 1984. **group:** CSR-SOYBEAN. **other id:** Beeson 80 BC6. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548584 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Miami. **pedigree:** Wells II(7) x PRX9-274 (PI 86972-1 x PI 54615-1). **other id:** PVP 8400084. **source:** Certificate in force. **group:** PVPO. **other id:** CV-177. **source:** Crop Sci. 24(5):999 1984. **group:** CSR-SOYBEAN. **other id:** Wells II BC6. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548583 to 548585-continued

PI 548585 **origin:** United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Winchester. **pedigree:** Williams(7) x PRX12-112 (PI 86972-1 x PI 84637). **other id:** PVP 8400082. **source:** Certificate in force. **group:** PVPO. **other id:** CV-178. **source:** Crop Sci. 24(5):999 1984. **group:** CSR-SOYBEAN. **other id:** Williams BC6. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548586. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Probst, Albert H., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1959.

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Kent. **pedigree:** Lincoln x Ogden. **other id:** CV-38. **source:** Crop Sci. 4(2):240 1964. **group:** CSR-SOYBEAN. **other id:** Cl068. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548587. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Weber, Charles R., Iowa State College, Department of Agronomy, Ames, Iowa, United States. Received 1954.

origin: United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Kim. **pedigree:** Sac(2) x Richland. **other id:** CV-54. **source:** Crop Sci. 6(4):391 1966. **group:** CSR-SOYBEAN. **other id:** A50-4745. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548588. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received August 1981.

origin: United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Lakota. **pedigree:** F6 selection from the population AP6 See Crop Science 15:739 for description of population AP6. **other id:** PVP 8200049. **source:** Certificate in force. **group:** PVPO. **other id:** CV-171. **source:** Crop Sci. 24(2):384 1984. **group:** CSR-SOYBEAN. **other id:** A77-112023. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548589. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Probst, Albert H., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1957.

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Lindarin. **pedigree:** Mandarin (Ottawa) x Lincoln. **other id:** CV-31. **source:** Agron. J. 52(11):659 1960. **group:** CSR-SOYBEAN. **other id:** C1117. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548590. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Probst, Albert H., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1962.

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Lindarin 63. **pedigree:** Lindarin(8) x Mukden Lindarin 63 was released in 1963 as C1294R (Lindarin(5) x Mukden), and was replaced in 1964. **other id:** CV-37. **source:** Crop Sci. 4(2):240 1964. **group:** CSR-SOYBEAN. **other id:** C1315. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548591. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Williams, James H., University of Nebraska, Department of Agronomy, Lincoln, Nebraska, United States. Received January 1985.

origin: United States. **origin institute:** Nebraska Agr. Exp. Sta., Lincoln, Nebraska. **cultivar:** Logan. **pedigree:** [Beeson x L15 (Wayne(6) x Clark 63)] x Amsoy. **other id:** CV-189. **source:** Crop Sci. 26(2):386 1986. **group:** CSR-SOYBEAN. **other id:** U75633. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548592. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Voldeng, Harvey D., Ottawa Research Station, Ottawa, Ontario, Canada. Received October 1982.

origin: Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Ottawa, Ontario. **cultivar:** Maple Amber. **pedigree:** Holmberg 840-7-3 x (Harosoy 63 x Altona) Holmberg 840-7-3 is from 201-14-20 (PI 196491 sib) x 680+993+994 (Muncheberg). **other id:** AU313. **source:** Prior designation. **other id:** OT80-1. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548593 to 548594. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Voldeng, Harvey D., Ottawa Research Station, Ottawa, Ontario, Canada. Received January 1980.

PI 548593 **origin:** Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Ottawa, Ontario. **cultivar:** Maple Arrow. **pedigree:** Harosoy 63 x Holmberg 840-7-3 Holmberg 840-7-3 is from 201-14-20 (PI 196491 sib) x 680+993+994 (Muncheberg). **other id:** O73-15. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548594 **origin:** Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Ottawa, Ontario. **cultivar:** Maple Presto. **pedigree:** (Amsoy x Portage) x Holmberg 840-7-3 Holmberg 840-7-3 is from 201-14-20 (PI 196491 sib) x 680+993+994 (Muncheberg). **other id:** BD21117. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548595 to 548596. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Voldeng, Harvey D., Ottawa Research Station, Ottawa, Ontario, Canada. Received July 1985.

PI 548595 **origin:** Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Ottawa, Ontario. **cultivar:** Maple Isle. **pedigree:** PI 194641 x L62-667(2) PI 194641 is Holmberg 744-2 (377-8-1 x Blackeye) from Sweden L62-667 is Harosoy e3 from Harosoy(6) x T204. **other id:** K151-11-B-6. **source:** Prior designation. **other id:** OT81-5. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548596 **origin:** Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Ottawa, Ontario. **cultivar:** Maple Ridge. **pedigree:** Fiskeby III (PI 196491) x Evans. **other id:** K22-3-B-1. **source:** Prior designation. **other id:** OT80-12Y. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548597. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Williams, James H., University of Nebraska, Department of Agronomy, Lincoln, Nebraska, United States. Received June 19, 1981.

origin: United States. **origin institute:** Nebraska Agr. Exp. Sta., Lincoln, Nebraska. **cultivar:** Mead. **pedigree:** Bonus x Wayne. **other id:** CV-156. **source:** Crop Sci. 22(2):449 1982. **group:** CSR-SOYBEAN. **other id:** U36276. **source:** Prior designation. **other id:** PVP 8100139. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 548598. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Kenworthy, William J., University of Maryland, Department of Agronomy, College Park, Maryland, United States. Received 1978.

origin: United States. **origin institute:** Maryland Agr. Exp. Sta., College Park, Maryland. **cultivar:** Miles. **pedigree:** Clark x D64-4731 [Lee(2) x (Clark(2) x PI 84631)]. **other id:** CV-131. **source:** Crop Sci. 20(2):287 1980. **group:** CSR-SOYBEAN. **other id:** Md71-407. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548599. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ohio State University, Department of Agronomy, Columbus, Ohio, United States. Received 1956.

origin: United States. **origin institute:** Ohio Agr. Exp. Sta., Columbus, Ohio. **cultivar:** Monroe. **pedigree:** Mukden x Mandarin. **other id:** CV-8. **source:** Agron. J. 45(7):326 1953. **group:** CSR-SOYBEAN. **other id:** H5. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548600. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: University of Minnesota, St. Paul, Minnesota, United States. Received 1969.

origin: Canada. **origin institute:** Dept. of Agriculture Exp. Sta., Morden, Manitoba. **cultivar:** Morsoy. **pedigree:** Acme x L48-7289 (Seneca x Richland). **other id:** CM30. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548601. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Torrie, James H., University of Wisconsin, Department of Agronomy, Madison, Wisconsin, United States. **remarks:** Seeds produced in Spooner, Wisconsin. Received 1954.

origin: United States. **origin institute:** Wisconsin Agr. Exp. Sta., Madison, Wisconsin. **cultivar:** Norchief. **pedigree:** Hawkeye x Flambeau. **other id:** CV-24. **source:** Agron. J. 50(11):690 1958. **group:** CSR-SOYBEAN. **other id:** W48S-1460. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548602. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Galeotti, C., Oklahoma State University, Department of Agronomy, Stillwater, Oklahoma, United States. Received October 1971.

origin: United States. **origin institute:** Missouri Agr. Exp. Sta., Missouri. **cultivar:** Oksoy. **pedigree:** Scott(6) x Blackhawk. **other id:** CV-166. **source:** Crop Sci. 23(3):598 1983. **group:** CSR-SOYBEAN. **other id:** S62-4051. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548603. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: University of Missouri, Columbia, Missouri, United States. Received 1955.

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Perry. **pedigree:** Patoka x L37-1355 (a rogue in PI 81041). **other id:** CV-12. **source:** Agron. J. 45(11):570 1953. **group:** CSR-SOYBEAN. **other id:** C612. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548604. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Anand, Sam C., University of Missouri, Portageville, Missouri, United States. Received September 1984.

origin: United States. **origin institute:** Missouri Agr. Exp. Sta., Portageville, Missouri. **cultivar:** Pershing. **pedigree:** D67-3297 [Hill(2) x Kisaya (PI 171450)] x Essex. **other id:** PVP 8500067. **source:** Certificate in force. **group:** PVPO. **other id:** CV-180. **source:** Crop Sci. 25(2):367 1985. **group:** CSR-SOYBEAN. **other id:** S76-2109. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548605. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Williams, James H., University of Nebraska, Department of Agronomy, Lincoln, Nebraska, United States. Received January 1983.

PI 548605-continued

origin: United States. **origin institute:** Nebraska Agr. Exp. Sta., Lincoln, Nebraska. **cultivar:** Platte. **pedigree:** Amsoy 71 x C1421 (Adelphia(8) x Mukden). **other id:** PVP 8300170. **source:** Certificate in force. **group:** PVPO. **other id:** CV-169. **source:** Crop Sci. 24(2):384 1984. **group:** CSR-SOYBEAN. **other id:** U56355. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548606. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Nickell, Cecil D., Kansas State University, Department of Agronomy, Manhattan, Kansas, United States. Received 1973.

origin: United States. **origin institute:** Kansas Agr. Exp. Sta., Manhattan, Kansas. **cultivar:** Pomona. **pedigree:** C1266 (Harosoy x C1079) x C1265 (Harosoy x C1079) C1079 is from C985 (Lincoln x Ogden), a 'Kent' progenitor. **other id:** CV-108. **source:** Crop Sci. 15(2):281 1975. **group:** CSR-SOYBEAN. **other id:** K1004. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548607. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: University of Minnesota, St. Paul, Minnesota, United States. Received 1962.

origin: Canada. **origin institute:** University of Manitoba, Winnipeg, Manitoba. **cultivar:** Portage. **pedigree:** Acme x Comet. **other id:** CV-58. **source:** Crop Sci. 6(6):612 1966. **group:** CSR-SOYBEAN. **other id:** S56-142. **source:** Prior designation. **other id:** UM4. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548608. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1964.

origin: United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Provar. **pedigree:** Harosoy x Clark. **other id:** CV-78. **source:** Crop Sci. 10(6):728 1970. **group:** CSR-SOYBEAN. **other id:** A61-1051. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548609 to 548610. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Weber, Charles R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1967.

PI 548609 to 548610-continued

PI 548609 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Rampage. **pedigree:** Clark x Chippewa. **other id:** CV-80. **source:** Crop Sci. 10(6):729 1970. **group:** CSR-SOYBEAN. **other id:** A62-5405. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548610 **origin:** United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Wirth. **pedigree:** Clark x Chippewa. **other id:** CV-79. **source:** Crop Sci. 10(6):729 1970. **group:** CSR-SOYBEAN. **other id:** A62-5407. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548611. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Lambert, Jean W., University of Minnesota, Department of Agronomy & Plant Genetics, St. Paul, Minnesota, United States. Received 1953.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Renville. **pedigree:** Lincoln(2) x Richland. **other id:** CV-45. **source:** Crop Sci. 4(6):664 1964. **group:** CSR-SOYBEAN. **other id:** M2. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548612. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Smith, Paul E., Ohio State University, Department of Agronomy, Columbus, Ohio, United States. Received 1958.

origin: United States. **origin institute:** Ohio Agr. Exp. Sta., Columbus, Ohio. **cultivar:** Ross. **pedigree:** Monroe x Lincoln. **other id:** CV-36. **source:** Crop Sci. 2(6):534 1962. **group:** CSR-SOYBEAN. **other id:** H24157-4. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548613. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Williams, Leonard F., University of Missouri, Columbia, Missouri, United States. Received 1965.

origin: United States. **origin institute:** Missouri Agr. Exp. Sta., Columbia, Missouri. **cultivar:** Scott. **pedigree:** D49-2525 (S-100 x CNS) x L46-5679 (Lincoln x Richland). **other id:** CV-60. **source:** Crop Sci. 7(1):81 1967. **group:** CSR-SOYBEAN. **other id:** S52-7158. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548614. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: McBlain, Brian, Ohio Agr. Res. and Dev. Center, Ohio State University, Department of Agronomy, Wooster, Ohio, United States. Received January 1986.

origin: United States. **origin institute:** Ohio Agr. Res. and Dev. Center, Wooster, Ohio. **cultivar:** Sherman.
pedigree: A72-512 (Amsoy x Wayne) x Pella. **other id:** PVP 8700007. **source:** Certificate in force. **group:** PVPO.
other id: CV-195. **source:** Crop Sci. 27(3):611 1987.
group: CSR-SOYBEAN. **other id:** HW8067. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548615. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Lambert, Jean W., University of Minnesota, Department of Agronomy & Plant Genetics, St. Paul, Minnesota, United States. Received February 10, 1982.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Simpson.
pedigree: Steele x Hodgson. **other id:** PVP 8300012.
source: Certificate in force. **group:** PVPO. **other id:** CV-162. **source:** Crop Sci. 22(6):1264 1982. **group:** CSR-SOYBEAN. **other id:** M70-153. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548616 to 548618. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received April 1978.

PI 548616 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Sloan.
pedigree: M59-120 (II-54-240 x II-54-132) x IVR Ex4731 (Amsoy x Wayne) II-54-240 is from Korean x II-42-37 (Lincoln(2) x Richland) II-54-132 is from Renville x Capital. **other id:** PVP 7900064. **source:** Certificate in force. **group:** PVPO. **other id:** CV-141. **source:** Crop Sci. 20(5):673 1980. **group:** CSR-SOYBEAN. **other id:** A73-25050. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548616 to 548618-continued

PI 548617 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Vickery. **pedigree:** Corsoy(5) x (L65-1342 x Mack, or Anoka x Mack) L65-1342 is from Wayne(2) x L62-1926 (Clark(6) x PI 86024). **other id:** PVP 7900065. **source:** Certificate in force. **group:** PVPO. **other id:** CV-148. **source:** Crop Sci. 21(3):475 1981. **group:** CSR-SOYBEAN. **other id:** A75-Corsoy R3. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548618 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Vinton. **pedigree:** Hark x [Provar x (Disoy x Magna)]. **other id:** PVP 7900063. **source:** Certificate in force. **group:** PVPO. **other id:** CV-142. **source:** Crop Sci. 20(5):673 1980. **group:** CSR-SOYBEAN. **other id:** A74-201010. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548619. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Nickell, Cecil D., Kansas State University, Department of Agronomy, Manhattan, Kansas, United States. Received February 1982.

origin: United States. **origin institute:** Kansas Agr. Exp. Sta., Manhattan, Kansas. **cultivar:** Sparks. **pedigree:** Williams x Calland. **other id:** PVP 8300072. **source:** Certificate in force. **group:** PVPO. **other id:** CV-168. **source:** Crop Sci. 23(3):598 1983. **group:** CSR-SOYBEAN. **other id:** K1041. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548620. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1972.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Steele. **pedigree:** Blackhawk x Harosoy. **other id:** CV-102. **source:** Crop Sci. 13(5):582 1973. **group:** CSR-SOYBEAN. **other id:** M59-213. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548621. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1963.

PI 548621-continued

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota. **cultivar:** Traverse. **pedigree:** Lincoln x Mandarin (Ottawa). **other id:** CV-49. **source:** Crop Sci. 6(1):95 1966. **group:** CSR-SOYBEAN. **other id:** M417. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548622. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, Richard L., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1975.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Union. **pedigree:** Williams(5) x SL12 SL12 from [(Wayne(6) x Clark 63) x (Wayne(4) x L11)] x SL9 L11 is from (Clark(6) x T201) x (Clark(6) x T145) SL9 is from Wayne(10) x Kanrich. **other id:** CV-158. **source:** Crop Sci. 22(3):688 1982. **group:** CSR-SOYBEAN. **other id:** L21. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548623. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: University of Guelph, Guelph, Ontario, Canada. Received 1964.

origin: Canada. **origin institute:** University of Guelph, Guelph, Ontario. **cultivar:** Vansoy. **pedigree:** (a selection from Lincoln x Flambeau) x Goldsoy. **other id:** CV-88. **source:** Crop Sci. 12(1):129 1972. **group:** CSR-SOYBEAN. **other id:** OAC85. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548624. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Crittenden, H. William, University of Delaware, Department of Agronomy, Newark, Delaware, United States. Received 1966.

origin: United States. **origin institute:** Delaware Agr. Exp. Sta., Newark, Delaware. **cultivar:** Verde. **pedigree:** Aoda x A50-7445 (Richland x Jogun). **other id:** CV-85. **source:** Crop Sci. 11(2):312 1971. **group:** CSR-SOYBEAN. **other id:** UD3210-31-14. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548625. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received November 1981.

origin: United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Ames, Iowa. **cultivar:** Vinton 81. **pedigree:** L60-347-4-4G-2-B (Harosoy x Higan) x Vinton(5). **other id:** PVP 8200050. **source:** Certificate in force. **group:** PVPO. **other id:** CV-170. **source:** Crop Sci. 24(2):384 1984. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548626. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1954.

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Wabash. **pedigree:** Dunfield x Mansoy. **other id:** CV-10. **source:** Agron. J. 45(7):326 1953. **group:** CSR-SOYBEAN. **other id:** C463. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548627. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Buss, G.R., Virginia Polytechnic Institute, Blacksburg, Virginia, United States. Received 1976.

origin: United States. **origin institute:** Virginia Agr. Exp. Sta., Blacksburg, Virginia. **cultivar:** Ware. **pedigree:** PI 80837 x V63-76 (Hill x D53-354) D53-354 is from D49-2525 (S-100 x CNS) x L46-5679 L46-5679 is from Lincoln x Richland. **other id:** CV-127. **source:** Crop Sci. 19(4):564 1979. **group:** CSR-SOYBEAN. **other id:** V68-1242. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548628. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, Richard L., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1962.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Wayne. **pedigree:** L49-4091 [(F3 Lincoln(2) x Richland) x (F1 Lincoln x CNS)] x Clark. **other id:** CV-51. **source:** Crop Sci. 6(3):305 1966. **group:** CSR-SOYBEAN. **other id:** L57-2222. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548629. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Fehr, Walter R., Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received January 1985.

origin: United States. **origin institute:** Iowa Agr. Exp. Sta., Ames, Iowa. **cultivar:** Weber 84. **pedigree:** Weber(5) x Century. **other id:** CV-198. **source:** Crop Sci. 27(3):613 1987. **group:** CSR-SOYBEAN. **other id:** Weber BC. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548630. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Wilcox, James R., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1973.

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Wells. **pedigree:** C1266R (Harosoy x C1079) x C1253 (Blackhawk x Harosoy) C1079 is from C985 (Lincoln x Ogden), a 'Kent' progenitor. **other id:** PVP 7300097. **source:** Expired (terminated). **group:** PVPO. **other id:** CV-98. **source:** Crop Sci. 13(5):583 1973. **group:** CSR-SOYBEAN. **other id:** C1470. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548631. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, Richard L., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1970.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Williams. **pedigree:** Wayne x L57-0034 (Clark x Adams). **other id:** CV-94. **source:** Crop Sci. 12(5):716 1972. **group:** CSR-SOYBEAN. **other id:** L66L-108. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548632. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, Richard L., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1973.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Woodworth. **pedigree:** Wayne x L57-0034 (Clark x Adams). **other id:** CV-116. **source:** Crop Sci. 17(6):979 1977. **group:** CSR-SOYBEAN. **other id:** L66L-172. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548633. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Schillinger, J.A., University of Maryland, College Park, Maryland, United States. **remarks:** Seeds produced at Linkwood, Maryland. Received 1970.

origin: United States. **origin institute:** Maryland Agr. Exp. Sta., College Park, Maryland. **cultivar:** Wye.
pedigree: From the second cycle intermating of Adams, Lincoln, Perry, Wabash, C799 (PI 70218-2-6-7 x Lincoln), C985 (Lincoln x Ogden), FC 33243, and L46-1503 (Lincoln(2) x Richland). **other id:** Md62-3303-3. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548634. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ohio Agr. Res. and Dev. Center, Ohio State University, Department of Agronomy, Wooster, Ohio, United States. Received July 1984.

origin: United States. **origin institute:** Ohio Agr. Res. and Dev. Center, Wooster, Ohio. **cultivar:** Zane.
pedigree: Cumberland x Pella. **other id:** PVP 8500059.
source: Certificate in force. **group:** PVPO. **other id:** CV-187. **source:** Crop Sci. 26(1):199 1986. **group:** CSR-SOYBEAN. **other id:** HW8033. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548635. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Nickell, Cecil D., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received November 1986.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., Urbana, Illinois. **cultivar:** Chamberlain.
pedigree: A76-304020 x Land O Lakes Max A76-304020 is from (Beeson x AP68-1016) x (L15 x Calland) AP68-1016 is from Clark(5) x PI 84946-2 L15 is from Wayne(6) x Clark 63. **other id:** PVP 8700073. **source:** Certificate in force. **group:** PVPO. **other id:** CV-194. **source:** Crop Sci. 27(3):611 1987. **group:** CSR-SOYBEAN. **other id:** LN80-8478. **source:** Prior designation. **remarks:** Land O Lakes Max is from [Wayne x (Clark x Adams)] x Cutler. Annual. Cultivar. Seed.

PI 548636. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Wilcox, James R., Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received December 1986.

PI 548636-continued

origin: United States. **origin institute:** Purdue Agr. Exp. Sta., West Lafayette, Indiana. **cultivar:** Regal. **pedigree:** Union(8) x (PI 86972-1 x PI 84637). **other id:** PVP 8600046. **source:** Certificate in force. **group:** PVPO. **other id:** CV-193. **source:** Crop Sci. 27(2):365 1987. **group:** CSR-SOYBEAN. **other id:** C-Union BC. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548637 to 548640. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Beversdorf, W.D., University of Guelph, Crop Science Department, Guelph, Ontario, Canada. Received April 29, 1987.

PI 548637 **origin:** Canada. **origin institute:** University of Guelph, Guelph, Ontario. **cultivar:** OAC Aries. **pedigree:** {[(T260 x Wayne) x Hark] x Altona} x McCall. **other id:** OAC83-07. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548638 **origin:** Canada. **origin institute:** University of Guelph, Guelph, Ontario. **cultivar:** OAC Libra. **pedigree:** FH 31-3 (Fiskeby V x Harosoy 63) x Evans Fiskeby V is PI 360955 from Sweden. **other id:** OAC82-07. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548639 **origin:** Canada. **origin institute:** University of Guelph, Guelph, Ontario. **cultivar:** OAC Pisces. **pedigree:** {[(T260 x Wayne) x Hark] x Altona} x McCall. **other id:** OAC81-06. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548640 **origin:** Canada. **origin institute:** University of Guelph, Guelph, Ontario. **cultivar:** OAC Scorpio. **pedigree:** McCall x Bicentennial. **other id:** OAC83-01. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548641. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Buzzell, Richard I., Harrow Research Station, Harrow, Ontario, Canada. Received March 18, 1988.

origin: Canada. **origin institute:** Harrow Research Station, Harrow, Ontario. **cultivar:** Haroson. **pedigree:** Hodgson x M75-2 M75-2 is from Hodgson(4) x [M67-141 x (Chippewa x Higan)] M67-141 is from Corsoy x Wayne. **other id:** OX-Hodgson lchm. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548642 to 548643. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Voldeng, Harvey D., Ottawa Research Station, Ottawa, Ontario, Canada. Received April 18, 1988.

PI 548642 **origin:** Canada. **origin institute:** Central Experimental Farm, Ottawa, Ontario. **cultivar:** Maple Donovan. **pedigree:** Maple Arrow x Harcor. **other id:** OT83-4. **source:** Prior designation. **other id:** X921-33-1. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548643 **origin:** Canada. **origin institute:** Central Experimental Farm, Ottawa, Ontario. **cultivar:** Maple Glen. **pedigree:** BD22115-13 [(Amsoy x Portage) x Holmberg 840-7-3] x Premier Holmberg 840-7-3 is from 201-14-20 (PI 196491 sib) x 680+993+994 (Muncheberg) Premier is Pride B216 (Corsoy x Wayne). **other id:** OT84-12. **source:** Prior designation. **other id:** X973-8-8-4. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548644. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hume, David, University of Guelph, Crop Science Department, Guelph, Ontario, Canada. Received April 12, 1988.

origin: Canada. **origin institute:** University of Guelph, Guelph, Ontario. **cultivar:** OAC Musca. **pedigree:** McCall x Bicentennial. **other id:** OAC84-06. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548645. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Southern Illinois University, Department of Agronomy, Carbondale, Illinois, United States. Received 1989.

origin: United States. **origin institute:** Southern Illinois University-Carbondale, Carbondale, Illinois 62901. **cultivar:** Pharaoh. **pedigree:** Forrest x V71-480. **other id:** LS82-1206. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548646 to 548647. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ridgetown College of Agricultural Tech., Ridgetown, Ontario, Canada. Received February 20, 1990.

PI 548646 **origin:** Canada. **origin institute:** Ridgetown College of Agricultural Tech., Ontario. **cultivar:** RCAT Alliance. **pedigree:** Wells II X Williams. **other id:** RCAT 8502. Annual. Cultivar. Seed.

PI 548646 to 548647-continued

PI 548647 **origin:** Canada. **origin institute:** Ridgetown College of Agricultural Tech., Ontario. **cultivar:** RCAT Persian. **pedigree:** M73-62 X FH31-3 M73-62 from M61-224 x Nagyszemi Feher M61-224 from Merit x Harosoy FH31-3 from Fiskeby V x Harosoy. **other id:** RCAT 8601. Annual. Cultivar. Seed.

PI 548648 to 548650. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Voldeng, H., Agriculture Canada, PRC, CEF, Building 12, Ottawa, Ontario, Canada. Received March 1990.

PI 548648 **origin:** Canada. **origin institute:** Agriculture Canada, Ontario. **cultivar:** Canatto. **pedigree:** X655-2 X "Evans-e3" X655-2 is small-seeded selection from DW -1-15-1 x BD22115 DW-1-15-1 is from M62-173 x G. soja (see 'Nattawa') BD22115 from (Amsoy x Portage) x PI 438477. **other id:** OT82-2. Annual. Cultivar. Seed.

PI 548649 **origin:** Canada. **origin institute:** Agriculture Canada, Ontario. **cultivar:** Nattawa. **pedigree:** DW-5 X Acme DW-5 is from M62-173 x G. soja. M62-173 is from M387 x M406 M387 is from Renville x Capital M406 is from Harosoy x Norchief. **other id:** X390-73. Annual. Cultivar. Seed.

PI 548650 **origin:** Canada. **origin institute:** Agriculture Canada, Ontario. **cultivar:** Nattosan. **pedigree:** No information provided. Annual. Cultivar. Seed.

PI 548651. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Kiang, Y.T., New Hampshire AES, Durham, New Hampshire, United States. Received 1989.

origin: United States. **origin institute:** New Hampshire Agr. Exp. Sta., Durham, New Hampshire 03824. **cultivar:** Merrimax. **pedigree:** Prize X A100. Annual. Cultivar. Seed.

PI 548652. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Creegan, P.B., USDA-ARS, Nitrogen Fixation & Soybean Genetics Lab, Range 1, HH 19 BARC-West, Beltsville, Maryland, United States. Received 1990.

PI 548652-continued

origin: United States. **origin institute:** USDA_ARS/Maryland Agr. Exp. Sta., NFSGL Range 1, HH 19, BARC-West, Beltsville, Maryland 20705. **cultivar:** Bass. **pedigree:** BSR 301 X Essex. **other id:** Md83-2048. Annual. Cultivar. Seed.

PI 548653. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1952.

origin: United States. **origin institute:** Mississippi Agr. Exp. Sta., Stoneville, Mississippi 38776. **cultivar:** Dorman. **pedigree:** Dunfield x Arksoy 2913 (a selection from Arksoy). **other id:** CV-15. **source:** Agron. J. 47(11):541 1955. **group:** CSR-SOYBEAN. **other id:** D623-9. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548654. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1959.

origin: United States. **origin institute:** Mississippi Agr. Exp. Sta., Stoneville, Mississippi 38776. **cultivar:** Hill. **pedigree:** D632-15 (Haberlandt x Dunfield) x D49-2525 (S-100 x CNS). **other id:** CV-29. **source:** Agron. J. 52(11):659 1960. **group:** CSR-SOYBEAN. **other id:** D53-526. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548655. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., Agricultural Research Service -- USDA, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1972.

origin: United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Stoneville, Mississippi 38776. **cultivar:** Forrest. **pedigree:** Dyer x Bragg. **other id:** PVP 7300058. **source:** Certificate in force. **group:** PVPO. **other id:** CV-96. **source:** Crop Sci. 13(2):287 1973. **group:** CSR-SOYBEAN. **other id:** D68-128. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548656. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1954.

origin: United States. **origin institute:** Mississippi Agr. Exp. Sta., Stoneville, Mississippi 38776. **cultivar:** Lee. **pedigree:** S-100 x CNS. **other id:** CV-23. **source:** Agron. J. 50(11):690 1958. **group:** CSR-SOYBEAN. **other id:** D49-2524. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548657. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1953.

origin: United States. **origin institute:** North Carolina Ag. Exp. Sta., Raleigh, North Carolina 27600. **cultivar:** Jackson. **pedigree:** Volstate(2) x Palmetto. **other id:** CV-22. **source:** Agron. J. 50(11):690 1958. **group:** CSR-SOYBEAN. **other id:** N47-3479. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548658. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Caviness, University of Arkansas, Department of Agronomy, Fayetteville, Arkansas, United States. Received 1974.

origin: United States. **origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Department of Agronomy, Fayetteville, Arkansas 72701. **cultivar:** Lee 74. **pedigree:** Selection from F3 plant from Lee 68 x R66-1517 R66-1517 is from Lee(5) x FC 33.243 Composite of 10 F4 lines. **other id:** CV-106. **source:** Crop Sci. 15(1):100 1975. **group:** CSR-SOYBEAN. **other id:** R69-1400. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548659. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., Agricultural Research Service -- USDA, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1979.

PI 548659-continued

origin: United States. **origin institute:** Florida Agr. Exp. Sta., Gainesville, Florida 32611. **cultivar:** Braxton. **pedigree:** F59-1505 x (Bragg(3) x D60-7965) F59-1505 is from Jackson x D49-2491 (S-100 x CNS) D60-7965 is from D55-4090 (Ogden x CNS) x D55-4159 D55-4159 is from Ogden x Biloxi. **other id:** PVP 8000075. **source:** Certificate abandoned. **group:** PVPO. **other id:** F71-1180. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548660. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1963.

origin: United States. **origin institute:** Florida Agr. Exp. Sta., Gainesville, Florida 32611. **cultivar:** Bragg. **pedigree:** Jackson x D49-2491 (S-100 x CNS). **other id:** CV-43. **source:** Crop Sci. 4(6):664 1964. **group:** CSR-SOYBEAN. **other id:** F58-3786. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548661. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1965.

origin: United States. **origin institute:** Mississippi Agr. Exp. Sta., Stoneville, Mississippi 32611. **cultivar:** Semmes. **pedigree:** D51-5427 (Ralsoy x Ogden) x D49-2491 (S-100 x CNS). **other id:** CV-53. **source:** Crop Sci. 6(4):390 1966. **group:** CSR-SOYBEAN. **other id:** D60-12327. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548662. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Hinson, University of Florida, Department of Agronomy, Gainesville, Florida, United States. Received 1974.

PI 548662-continued

origin: United States. **origin institute:** Florida Agr. Exp. Sta., Gainesville, Florida 32611. **cultivar:** Hutton. **pedigree:** F55-822 x (Roanoke x CNS-4) F55-822 is from Jackson x D49-2491 (S-100 x CNS) CNS-4 is a selection from CNS. **other id:** PVP 7300083. **source:** Certificate abandoned. **group:** PVPO. **other id:** CV-100. **source:** Crop Sci. 13(5):582 1973. **group:** CSR-SOYBEAN. **other id:** F63-4000. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548663. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1978.

origin: United States. **origin institute:** Texas Agr. Exp. Sta., College Station, Texas 77840. **cultivar:** Dowling. **pedigree:** Semmes x PI 200492 PI 200492 is 'Komata' from Japan in 1952. **other id:** CV-120. **source:** Crop Sci. 18(6):1094 1978. **group:** CSR-SOYBEAN. **other id:** Ts73-16. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548664. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1973.

origin: United States. **origin institute:** Florida Agr. Exp. Sta., Gainesville, Florida 32611. **cultivar:** Cobb. **pedigree:** F57-735 (D49-772 x Improved Pelican) x D58-3358 D49-772 is from Roanoke x N45-745 (Ogden x CNS) D58-3358 is from Jackson(4) x D49-2491 (S-100 x CNS). **other id:** F66-1166. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548665. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hinson, USDA-ARS/Univ. of Florida, Department of Agronomy, Gainesville, Florida, United States. Received 1983.

origin: United States. **origin institute:** Florida Agr. Exp. Sta., Gainesville, Florida 32611. **cultivar:** Kirby. **pedigree:** Centennial x [Forrest x (Cobb x D68-216)] D68-216 is from Dyer x Bragg. **other id:** F77-1797. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548666. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, Edgar E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received 1962.

origin: United States. **origin institute:** Florida Agr. Exp. Sta., Gainesville, Florida 32611. **cultivar:** Hardee. **pedigree:** D49-772 x Improved Pelican D49-772 is from Roanoke x N45-745 (Ogden x CNS). **other id:** CV-44. **source:** Crop Sci. 4(6):664 1964. **group:** CSR-SOYBEAN. **other id:** F58-3734. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548667. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Smith, Virginia State University, Petersburg, Virginia, United States. Received 1972.

origin: United States. **origin institute:** Virginia Agr. Exp. Sta., Petersburg, Virginia 23803. **cultivar:** Essex. **pedigree:** Lee x S55-7075 (N48-1248 x Perry) N48-1248 is from Roanoke x N45-745 (Ogden x CNS). **other id:** CV-97. **source:** Crop Sci. 13(4):495 1973. **group:** CSR-SOYBEAN. **other id:** V66-180. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548668 to 548675. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Bernard, R.L., USDA-ARS, University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1988.

PI 548668 **origin:** United States. **cultivar:** A-100. **pedigree:** Single plant selection from 'Capital'. **other id:** CV-59. **source:** Crop Sci. 6(6):612 1966. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548669 **origin:** United States. **cultivar:** Carlin. **pedigree:** Rogue in 'Dunfield'. Annual. Cultivar. Seed.

PI 548670 **origin:** United States. **origin institute:** Cypress Land Farms Company, 314 Merchants' Exchange Building, St. Louis, Missouri 63100. **cultivar:** Cypress No. 1. **pedigree:** Rogue in 'Korean'. Annual. Cultivar. Seed.

PI 548671 **origin:** United States. **cultivar:** Fabulin. **pedigree:** Rogue in Lincoln. Annual. Cultivar. Seed.

PI 548672 **origin:** United States. **cultivar:** Little Wonder. **pedigree:** Unknown. Annual. Cultivar. Seed.

PI 548668 to 548675-continued

PI 548673 **origin:** United States. **origin institute:** Pennsylvania Farm Bureau, Bernville, Pennsylvania 19506. **cultivar:** Ottawa. **pedigree:** Rogue in 'Chippewa'. Annual. Cultivar. Seed.

PI 548674 **origin:** United States. **origin institute:** Pennsylvania Farm Bureau, Bernville, Pennsylvania 19506. **cultivar:** Polysoy. **pedigree:** Unknown. Annual. Cultivar. Seed.

PI 548675 **origin:** United States. **cultivar:** Roe. **pedigree:** Selection from 'Lincoln'. Annual. Cultivar. Seed.

PI 548676. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Shipley, Walter, 3175 N. 91st Street, Milwaukee, Wisconsin, United States. Received December 13, 1965.

origin: United States. **origin institute:** Peterson Seed Company, 2817 Airline Highway, Waterloo, Iowa 50701. **cultivar:** Bombay. **pedigree:** Unknown. **other id:** LAcc 285. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548677. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Trisler Seed Farms, Inc., R.R. #2, Fairmount, Illinois, United States. Received February 23, 1966.

origin: United States. **origin institute:** Trisler Seed Farms, Inc., R.R. #2, Fairmount, Illinois 61841. **cultivar:** Ennis I. **pedigree:** Suspected to be a variant of 'Shelby'. **other id:** LAcc 294. **source:** Prior designation. Annual. Cultivar. Seed.

PI 548678. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: High Plains Research Foundation, P.O. Box 1870, Plainview, Texas, United States. Received July 19, 1970.

origin: United States. **origin institute:** High Plains Research Foundation, Post Office Drawer 1870, Plainview, Texas 79072. **cultivar:** HP-963. **pedigree:** (S100 x CNS) x (Lincoln x Richland). **other id:** CV-77. **source:** Crop Sci. 9(6):850 1969. **group:** CSR-SOYBEAN. **other id:** PA8-963-2-B-2. Annual. Cultivar. Seed.

PI 548679. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Stine Seed Company, Adel, Iowa, United States. Received April 26, 1973.

origin: United States. **origin institute:** Stine Seed Company. **cultivar:** Mitchell. **pedigree:** Unknown. **other id:** PVP 7300054. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 548680. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: The Pride Company, Minnesota, United States. Received 1952.

origin: United States. **origin institute:** The Pride Company, Minnesota. **cultivar:** Pridesoy 57. **pedigree:** From Pridesoy, which is unknown but similar to Norsoy. Annual. Cultivar. Seed.

PI 548681 to 548682. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois, United States. Received February 18, 1971.

PI 548681 **origin:** United States. **origin institute:** Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois 62664. **cultivar:** SRF 100. **pedigree:** Chippewa 64(9) x D61-5141 D61-5141 is Dorman(5) x PI 18137. **other id:** PVP 7100016. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 548682 **origin:** United States. **origin institute:** Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois 62664. **cultivar:** SRF 400. **pedigree:** Clark 63(7) x D61-5141 D61-5141 is Dorman(5) x PI 18137. **other id:** PVP 7100019. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 548683 to 548685. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois, United States. Received March 1971.

PI 548683 **origin:** United States. **origin institute:** Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois 62664. **cultivar:** SRF 150. **pedigree:** Hark(7) x (Wayne(3) x D61-5141) D61-5141 is Dorman(5) x PI 18137. **other id:** PVP 7200086. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 548683 to 548685-continued

PI 548684 **origin:** United States. **origin institute:** Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois 62664. **cultivar:** SRF 307B. **pedigree:** Wayne(7) x D61-5141 D61-5141 is Dorman(5) x PI 18137. **other id:** PVP 7200099. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 548685 **origin:** United States. **origin institute:** Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois 62664. **cultivar:** SRF 450. **pedigree:** Kent(8) x PI 88818. **other id:** PVP 7200077. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 548686 to 548687. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois, United States. Received March 03, 1969.

PI 548686 **origin:** United States. **origin institute:** Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois 62664. **cultivar:** SRF 300. **pedigree:** Wayne(7) x D61-5141 D61-5141 is Dorman(5) x PI 18137. Annual. Cultivar. Seed.

PI 548687 **origin:** United States. **origin institute:** Soybean Research Foundation, 115 N. Perry Street, Mason City, Illinois 62664. **cultivar:** SRF 307. **pedigree:** Wayne(7) x D61-5141 D61-5141 is Dorman(5) x PI 18137. **other id:** PVP 7100017. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 548688. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: L. Teweles Seed Company, Milwaukee, Wisconsin, United States. Received 1971.

origin: United States. **origin institute:** L. Teweles Seed Co., Milwaukee, Wisconsin 53201. **cultivar:** XK505. **pedigree:** (Harosoy x Blackhawk) x Kent. **other id:** PVP 7100037. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 548689 to 548690. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Thorne, John, Northrup King Company, P.O. Box 49, Washington, Iowa, United States. Received March 1990.

PI 548689 to 548690-continued

PI 548689 **origin:** United States. **origin institute:** Northrup King Company, P.O. Box 49, Washington, Iowa 52353. **cultivar:** B216. **pedigree:** Corsoy X Wayne. **other id:** PVP 7500087. **source:** Certificate in force. **group:** PVPO. **other id:** Premier. **source:** Canadian variety name. Annual. Cultivar. Seed.

PI 548690 **origin:** United States. **origin institute:** Northrup King Company, P.O. Box 49, Washington, Iowa 52353. **cultivar:** S1492. **pedigree:** Corsoy X Wayne. **other id:** PVP 7600066. **source:** Certificate in force. **group:** PVPO. **other id:** Kentland. **source:** Canadian variety name. Annual. Cultivar. Seed.

PI 548691. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ellingson, Wayne R., AgriPro Seeds, R.R. #2, Brookston, Indiana, United States. Received March 23, 1990.

origin: United States. **origin institute:** AgriPro Seeds, R.R. #2, Brookston, Indiana 47923. **cultivar:** AP 26. **pedigree:** Beeson X Calland. **other id:** PVP 7600057. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 548692. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ellingson, Wayne R., AgriPro Seeds, R.R. #2, Brookston, Indiana, United States. Received April 25, 1990.

origin: United States. **origin institute:** AgriPro Seeds, R.R. #2, Brookston, Indiana 47923. **cultivar:** AP 200. **pedigree:** Amsoy Phytophthora 225 X Swift. **other id:** PVP 8000072. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 548693. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ellingson, Wayne R., AgriPro Seeds, R.R. #2, Brookston, Indiana, United States. Received 1981.

origin: United States. **origin institute:** AgriPro Seeds, R.R. #2, Brookston, Indiana 47923. **cultivar:** Marshall. **pedigree:** Provar x (A55629-4 x PI 248404) A55629-4 is Roanoke x Hawkeye. Annual. Cultivar. Seed.

PI 548694. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Jennings, Clark, Pioneer HiBred International, Inc., 3251 W. Airline Highway, Waterloo, Iowa, United States. Received August 29, 1989.

origin: United States. **origin institute:** Peterson Seed Company, Inc.. **cultivar:** Peterson Jade. **pedigree:** Verde x Kanrich. **other id:** PVP 7200076. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 548695 to 548698. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, E.E., USDA-ARS, Delta Branch Experiment Station, P.O. Box 197, Stoneville, Mississippi, United States. Received February 1991.

PI 548695 **origin:** United States. **origin institute:** Robert L. Dortch Seed Farms, Scott, Arkansas 72142. **cultivar:** Dortchsoy 31. **pedigree:** A rogue in 'Ogden'. Annual. Cultivar. Seed.

PI 548696 **origin:** United States. **origin institute:** Robert L. Dortch Seed Farms, Scott, Arkansas 72142. **cultivar:** Dortchsoy 67. **pedigree:** Macoupin x Odgen. **other id:** CV-14. **source:** Agron. J. 47(11):541 1955. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548697 **origin:** United States. **origin institute:** Coker's Pedigreed Seed Company, Hartsville, South Carolina 29550. **cultivar:** Majos. **pedigree:** Tokyo x Yelredo. Annual. Cultivar. Seed.

PI 548698 **origin:** United States. **origin institute:** Coker's Pedigreed Seed Company, Hartsville, South Carolina 29550. **cultivar:** Yelnanda. **pedigree:** Nanda x Yelredo. Annual. Cultivar. Seed.

PI 548699. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Rumbaugh, M.D., Crops Research Laboratory, USDA-ARS, Utah State University, Logan, Utah, United States. **remarks:** Received through Paul Bartel, Peace Corps, Project de L'Amenagement des Parcours, Utah State University, Logan. Received January 24, 1984.

donor id: GR 894. **origin:** Morocco. **locality:** Purchased from market, Ain-Beni-Mathar, 83km south of Oujda, grown in the Rich area. Perennial. Cultivar. Seed.

PI 548700. *Abelmoschus esculentus* (L.) Moench MALVACEAE Okra

Donated by: Barineau, S.M., Petoseed Co., Inc, Breeders-Growers, P.O. Box 4206, Saticoy, California, United States. Received February 26, 1991.

origin: India. **cultivar:** PARBHANI KRANTI. **remarks:**
Resistant to Yellow Vein Mosaic Virus. Annual.
Cultivar. Seed.

PI 548701. *Phaseolus vulgaris* L. FABACEAE Navy bean

Donated by: Grafton, K.F., Crop and Weed Sciences Department, North Dakota State University, State University Station, Box 5051, Fargo, North Dakota, United States. Received February 22, 1991.

donor id: NX-041. **origin:** United States. **cultivar:** NORSTAR. **pedigree:** C-20/Fleetwood, F3 Selection.
remarks: Maturity early, 92 days. Yield high. Seed weight 17.7g per 100. Plants upright, short vine (Type II). Lodging minimal. Resistant to races of bean rust (*Puccinia* spp.) found in North Dakota. Canning characteristics good. Annual. Cultivar. Seed.

PI 548702 to 548768. *Hordeum vulgare* L. POACEAE Barley

Donated by: Lehman, C., Akademie der Wissenschaften der DDR, Institute for Genetics and Plant Science, Correnstrasse 3, Gatersleben, Germany. Received February 14, 1990.

PI 548702 **donor id:** HOR 141. **origin:** Italy. **cultivar:** NEC FALLA. **other id:** I-11. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.

PI 548703 **donor id:** HOR 204. **origin:** USSR. **other id:** Rs-13. **locality:** Krasnakut. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.

PI 548704 **donor id:** HOR 733. **origin:** Greece. **other id:** GRCBALK-42: 1048. **locality:** Sivista. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.

PI 548705 **donor id:** HOR 998. **origin:** Greece. **other id:** GRCBALK-42: 1166. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.

PI 548706 **donor id:** HOR 1110. **origin:** Germany. **cultivar:** LINIE III. **other id:** H-103. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.

PI 548702 to 548768-continued

- PI 548707 **donor id:** HOR 1237. **origin:** Albania. **other id:** ALBBALK-41: 2565. **locality:** Vermitza. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548708 **donor id:** HOR 1428. **origin:** Ethiopia. **other id:** EP-75/43. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548709 **donor id:** HOR 1457. **origin:** Ethiopia. **other id:** EP-80. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548710 **donor id:** HOR 1496. **origin:** China. **other id:** Ti-53. **locality:** Tsetang. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548711 **donor id:** HOR 1501. **origin:** Ethiopia. **other id:** EP-71/43. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548712 **donor id:** HOR 1503. **origin:** Ethiopia. **other id:** EP-77/43. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548713 **donor id:** HOR 1504. **origin:** Ethiopia. **other id:** EP-79/43. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548714 **donor id:** HOR 1506. **origin:** Ethiopia. **other id:** EP-80/43. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548715 **donor id:** HOR 1630. **origin:** Ethiopia. **other id:** Ab-2. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548716 **donor id:** HOR 1633. **origin:** Ethiopia. **other id:** EP-73/43. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548717 **donor id:** HOR 1634. **origin:** Ethiopia. **other id:** EP-74/43. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548718 **donor id:** HOR 1640. **origin:** Ethiopia. **other id:** Ab-23. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548719 **donor id:** HOR 1643. **origin:** Ethiopia. **other id:** Ab-15. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.

PI 548702 to 548768-continued

- PI 548720 **donor id:** HOR 1677. **origin:** Ethiopia. **other id:** Ab-6. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548721 **donor id:** HOR 1725. **origin:** Ethiopia. **other id:** EP-72/43. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548722 **donor id:** HOR 1726. **origin:** Ethiopia. **other id:** EP-76/43. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548723 **donor id:** HOR 1734. **origin:** Sweden. **cultivar:** WEISSE V. PEKING. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548724 **donor id:** HOR 1804. **origin:** Afghanistan. **other id:** HES-70. **locality:** north of Hindu Kush. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548725 **donor id:** HOR 1852. **origin:** India. **other id:** HES-166. **locality:** central India. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548726 **donor id:** HOR 1859. **origin:** Ethiopia. **other id:** Ab-14. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548727 **donor id:** HOR 1999. **origin:** Italy. **other id:** ITAMALY-50: 15. **locality:** Catania. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548728 **donor id:** HOR 2380. **origin:** Ethiopia. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548729 **donor id:** HOR 2660. **origin:** China. **other id:** Ti-12. **other id:** TIB-38/39. **locality:** Lhasa. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548730 **donor id:** HOR 2768. **origin:** Iran. **other id:** 1959: 3377. **other id:** IRNFAOKU-52-54: 12b. **locality:** 21 km south of Ramhormos. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548731 **donor id:** HOR 2772. **origin:** Iran. **other id:** 1959: 3381. **other id:** IRNFAOKU-52-54: 187A. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.

PI 548702 to 548768-continued

- PI 548732 **donor id:** HOR 2895. **origin:** Algeria. **cultivar:** ALGERIE 48. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548733 **donor id:** HOR 2925. **origin:** Ethiopia. **other id:** Ab-9. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548734 **donor id:** HOR 2926. **origin:** Ethiopia. **other id:** Ab-1118/47. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548735 **donor id:** HOR 2927. **origin:** Ethiopia. **other id:** Ab-1119/47. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548736 **donor id:** HOR 2928. **origin:** Ethiopia. **other id:** Ab-3. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548737 **donor id:** HOR 2929. **origin:** Ethiopia. **other id:** Ab-5. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548738 **donor id:** HOR 2930. **origin:** Ethiopia. **other id:** Ab-1116/47. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548739 **donor id:** HOR 2934. **origin:** Ethiopia. **other id:** Ab-1115/47. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548740 **donor id:** HOR 2937. **origin:** Germany. **cultivar:** GRANNENLOSE ZWEIZEILIGE. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivar. Seed.
- PI 548741 **donor id:** HOR 2943. **origin:** Germany. **other id:** BBA 2919. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548742 **donor id:** HOR 2944. **origin:** Germany. **cultivar:** SEIGLE TEMONDIJ. **other id:** BBA 3069. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548743 **donor id:** HOR 2951. **origin:** Germany. **other id:** BBA 806. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.

PI 548702 to 548768-continued

- PI 548744 **donor id:** HOR 2973. **origin:** France. **cultivar:** SEIGLE TEMONDIJ. **other id:** BBA 974. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548745 **donor id:** HOR 3007. **origin:** India. **cultivar:** PESHAWAR. **other id:** BBA 1232. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548746 **donor id:** HOR 3071. **origin:** Ethiopia. **other id:** Ab-1129/47. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548747 **donor id:** HOR 3209. **origin:** Ethiopia. **other id:** Ab-1. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548748 **donor id:** HOR 3210. **origin:** Ethiopia. **other id:** Ab-2231. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548749 **donor id:** HOR 3213. **origin:** Ethiopia. **other id:** Ab-1119/47. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548750 **donor id:** HOR 3228. **origin:** Ethiopia. **other id:** Ab-1111/47. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548751 **donor id:** HOR 3664. **origin:** Germany. **other id:** 809. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548752 **donor id:** HOR 3670. **origin:** Germany. **other id:** 836. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548753 **donor id:** HOR 3672. **origin:** Germany. **other id:** 859. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548754 **donor id:** HOR 3750. **origin:** Poland. **cultivar:** KULKOYE UDATAL. **other id:** 1194. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.
- PI 548755 **donor id:** HOR 3807. **origin:** Germany. **cultivar:** ZWEIZEILIGE UNBEGRANNT 343/52. **other id:** 1401. **remarks:** Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.

PI 548702 to 548768-continued

- PI 548756 **donor id:** HOR 3832. **origin:** India. **other id:** C. 138-2.
remarks: Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.
- PI 548757 **donor id:** HOR 3998. **origin:** Greece. **other id:**
GRCBALK-41: 2201. **locality:** Agezi, northern Greece.
remarks: Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.
- PI 548758 **donor id:** HOR 4082. **origin:** Yemen. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.
- PI 548759 **donor id:** HOR 4260. **origin:** Pakistan. **cultivar:**
LYALLPUR 3648. **other id:** In-30. **other id:**
INDHIND-35/36: 163/41. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivar. Seed.
- PI 548760 **donor id:** HOR 4469. **origin:** Syria. **other id:** WIR 7633.
remarks: Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.
- PI 548761 **donor id:** HOR 4558. **origin:** Israel. **cultivar:** JERUSALEM II.
remarks: Resistant to *Puccinia striiformis* race 24 in DDR. Annual. Cultivated. Seed.
- PI 548762 **donor id:** HOR 4967. **origin:** Germany. **origin institute:**
Bernburg. **cultivar:** TRUMPF. **pedigree:** Hadm. 24566/Diamant/1402-64//Alsa/Abyssinian//St. Union. **other id:** Stamm hadm. 4566/68. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Resistant to *Puccinia hordei* (Pax, Pay). Resistant to *Erysiphe graminis* (Mlab, Mla7). Annual. Cultivar. Seed.
- PI 548763 **donor id:** HOR 7459. **origin:** Germany. **origin institute:**
Bernburg. **cultivar:** NADJA. **pedigree:** Diamant/1902964-62. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Resistant to *Puccinia hordei* (Pax, Pay) Resistant to *Erysiphe graminis* (Mlg, Mla4, Mla7). Annual. Cultivar. Seed.
- PI 548764 **donor id:** HOR 8899. **origin:** Germany. **cultivar:** GRIT.
remarks: Resistant to *Puccinia striiformis* race 24 in DDR. Resistant to *Puccinia hordei* (Pax, Pay, ZRF-Emir) Resistant to *Erysiphe graminis* (Mlal2). Annual. Cultivar. Seed.
- PI 548765 **donor id:** HOR 8900. **origin:** Germany. **cultivar:** LADA.
remarks: Resistant to *Puccinia striiformis* race 24 in DDR. Resistant to *Puccinia hordei* (2 recessive genes from Emir). Resistant to *Erysiphe graminis* (Mlal2). Annual. Cultivar. Seed.

PI 548702 to 548768-continued

- PI 548766 **donor id:** HOR 8901. **origin:** Germany. **cultivar:** GERLINDE. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Resistant to *Puccinia hordei* (Pax, Pay). Resistant to *Erysiphe graminis* (Mla7, Mla12). Annual. Cultivar. Seed.
- PI 548767 **donor id:** HOR 9246. **origin:** Germany. **cultivar:** CONSISTA. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Resistant to *Puccinia hordei* (Pax, Pay). Resistant to *Erysiphe graminis* (Mlg, Mla7, Mla12). Annual. Cultivar. Seed.
- PI 548768 **donor id:** HOR 10687. **origin:** Germany. **cultivar:** SALOME. **remarks:** Resistant to *Puccinia striiformis* race 24 in DDR. Resistant to *Puccinia hordei* (Pax, Pay, ZRF-Vada). Resistant to *Erysiphe graminis* (Mlo, Mla7). Annual. Cultivar. Seed.

PI 548769. *Avena sativa* L. POACEAE Common oat

Donated by: Reeves, D.L., Department of Plant Science, Plant Science Building, Box 2109, South Dakota State University, Brookings, South Dakota, United States. Received February 06, 1991.

donor id: SD 840104. **origin:** United States. **cultivar:** TROY. **pedigree:** WI 2221-2/2/Noble/Nodaway 70/3/MN 78142, F3. **remarks:** Plants tall. Maturity moderately late. Seed white. Awns small and dark on some spiklets. Test weight good. Groat oil moderately low. Groat protein moderately high. Resistant to moderately resistant to smut (*Ustilago* spp.). Moderately resistant to crown rust (*Puccinia coronata*). Susceptible to stem rust (*Puccinia avenae*). 1988-1990 Uniform Midseason Oat trial entry. Annual. Cultivar. Seed.

PI 548770 to 548771. *Oryza sativa* L. POACEAE Rice

Donated by: Linscombe, S.D., Louisiana Agr. Exp. Sta., P.O. Box 1429, Crowley, Louisiana, United States. **remarks:** LSBR-5 and LSBR-33 rice germplasms. Received March 29, 1991.

PI 548770 **origin:** United States. **origin institute:** Louisiana Agr. Exp. Sta., P.O. Box 1429, Crowley, Louisiana 70803. **cultivar:** LSBR-5. **pedigree:** Labelle somaclone. **other id:** GP-67. **group:** CSR-RICE. **remarks:** Plant height 115cm compared to 125cm for Labelle. Days from emergence to 50% heading, 84 compared to 70 for Labelle. Very highly resistant to infection by *Rhizoctonia solani* to which Labelle is highly susceptible. Spring Annual. Breeding Material. Seed.

PI 548770 to 548771-continued

PI 548771 **origin:** United States. **origin institute:** Louisiana Agr. Exp. Sta., P.O. Box 1429, Crowley, Louisiana 70527-1429. **cultivar:** LSBR-33. **pedigree:** Labelle somaclone. **other id:** GP-68. **group:** CSR-RICE. **remarks:** Plant height 117cm compared to 125cm for Labelle. Days from emergence to 50% heading, 83 compared to 70 for Labelle. Very highly resistant to infection by *Rhizoctonia solani* to which Labelle is highly susceptible. Spring Annual. Breeding Material. Seed.

PI 548772. *Oryza sativa* L. POACEAE Rice

Donated by: Linscombe, S.D., Louisiana Agr. Exp. Sta., P.O. Box 1429, Crowley, Louisiana, United States; and Agricultural Research Service -- USDA. **remarks:** Lacassine. Received March 29, 1991.

origin: United States. **origin institute:** Louisiana Agr. Exp. Sta., P.O. Box 1429, Crowley, Louisiana 70527. **cultivar:** LACASSINE. **pedigree:** Newbonnet (PI 474580)/Lemont (PI 475833). **other id:** CV-88. **group:** CSR-RICE. **remarks:** Plant height 93cm (soil to panicle tip). 85 days from emergence to 50% heading. Milling yield 58-69 (whole-total in percentage). Amylose content (22.6%) long grain. Intermediate gel type. Highly susceptible to *Rhizoctonia solani*. Spring Annual. Cultivar. Seed.

PI 548773 to 548782. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Specht, J.E., Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska, United States. **remarks:** Dense, Pubescence Soybean Germplasm. Received March 29, 1991.

PI 548773 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB01-2DG. **pedigree:** F3 derived F7 seed of Asgrow A3127 x Harosoy-Pd1 (162-801). **other id:** GP-131. **group:** CSR-SOYBEAN. **remarks:** Maturity 133 days. Plant height 1.21 meters. Dense-grey pubescence. 16 grams per 100 seed. Breeding Material. Seed.

PI 548774 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB02-2DG. **pedigree:** F3 derived F7 seed of Century x Harosoy-Pd1 (162-801). **other id:** GP-132. **group:** CSR-SOYBEAN. **remarks:** Maturity 125 days. Plant height 1.08 meters. Dense-grey pubescence. 17 grams per 100 seed. Breeding Material. Seed.

PI 548773 to 548782-continued

- PI 548775 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB03-4DG. **pedigree:** F3 derived F7 seed of Hobbit x Harosoy-Pd1 (L62-801). **remarks:** Maturity 137 days. Plant height 0.69 meters. Dense-grey pubescence. 15 grams per 100 seed. Breeding Material. Seed.
- PI 548776 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB04-4DG. **pedigree:** F3 derived F7 seed of Mead x Harosoy-Pd1 (L62-801). **remarks:** Maturity 126 days. Plant height 1.00 meters. Dense-grey pubescence. 17 grams per 100 seed. Breeding Material. Seed.
- PI 548777 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB05-2DG. **pedigree:** F3 derived F7 seed of Pella x Harosoy - Pd1 (L62-801). **remarks:** Maturity 135 days. Plant height 1.12 meters. Dense-grey pubescence. 20 grams per 100 seed. Breeding Material. Seed.
- PI 548778 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB06-3DG. **pedigree:** F3 derived F7 seed of Platte x Clark-Pd1 (L62-1686). **remarks:** Maturity 135 days. Plant height 1.11 meters. Dense-grey pubescence. 14 grams per 100 seed. Breeding Material. Seed.
- PI 548779 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB07-2DG. **pedigree:** F3 derived F7 seed of Sparks x Harosoy-Pd1 (L62-801). **remarks:** Maturity 135 days. Plant height 1.17 meters. Dense-grey pubescence. 19 grams per 100 seed. Breeding Material. Seed.
- PI 548780 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB08-1DT. **pedigree:** F3 derived F7 seed of Will x Clark-Pd1 (L62-1686). **other id:** GP-133. **group:** CSR-SOYBEAN. **remarks:** Maturity 135 days. Plant height 0.90 meters. Dense-grey pubescence. 15 grams per 100 seed. Breeding Material. Seed.

PI 548773 to 548782-continued

PI 548781 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB09-2DT. **pedigree:** F3 derived F7 seed of Williams 82 x Clark-Pd1 (L62-1686). **remarks:** Maturity 138 days. Plant height 1.05 meters. Dense-grey pubescence. 17 grams per 100 seed. Breeding Material. Seed.

PI 548782 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** NEB10-1DG. **pedigree:** F3 derived F7 seed of Zane x Harosoy-Pd1 (L62-801). **remarks:** Maturity 132 days. Plant height 1.13 meters. Dense-grey pubescence. 18 grams per 100 seed. Breeding Material. Seed.

PI 548783. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: West, D.R., Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee, United States. **remarks:** T171 Maize Parental Line. Received March 29, 1991.

origin: United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37901-1071. **cultivar:** T171. **pedigree:** (B73/C.1.66)F2/B73 - self 6 generations. **other id:** PL-159. **group:** CSR-MAIZE. **remarks:** Maturity 1411 heat units to pollen shed. Grain and cob white. 16-18 rows of kernels on ear. Anther yellow. Silk green. Plants 25cm shorter than B73. Susceptible to MDMV-A/MCDV virus complex. Spring Annual. Breeding Material. Seed.

PI 548784. *Vigna unguiculata* (L.) Walp. FABACEAE Cowpea

Donated by: Helms, D., California Agr. Exp. Sta., University of California, Davis, California, United States. **remarks:** California Blackeye 46 Cowpea. Received March 29, 1991.

PI 548784-continued

origin: United States. **origin institute:** California Agr. Exp. Sta., University of California, Davis, California 95616. **cultivar:** CALIFORNIA BLACKEYE 46. **pedigree:** (((CB5/PI 166146)-F3)//CB5)-F7-Blk. **other id:** CB 46. **other id:** BE 46. **other id:** CV-90. **source:** Crop Sci. 31(6):1703 1991. **group:** CSR-OTHER LEGUMES. **remarks:** Maturity 90 days. More erect, shorter and narrower than CB 5 making it well-suited to 75cm beds. Flowers white. Pods high in canopy. Resistant to F.o. tracheiphilum race 3 and homozygous for the Rk gene for resistance to southern root-knot nematode. Resistance to root-knot nematode breaks down in presence of some "aggressive" nematode populations found in California. Seed coat cream with black pigment. Spring Annual. Cultivar. Seed.

PI 548785. *Vigna unguiculata* (L.) Walp. FABACEAE Cowpea

Donated by: Helms, D., California Agr. Exp. Sta., University of California, Davis, California, United States. **remarks:** California Blackeye 88 Cowpea. Received March 29, 1991.

origin: United States. **origin institute:** California Agr. Exp. Sta., University of California, Davis, California 95616. **cultivar:** CALIFORNIA BLACKEYE 88. **pedigree:** (CB 5/7977)-F4-Blk. **other id:** CB 88. **other id:** BE 88. **other id:** CV-91. **source:** Crop Sci. 31(6):1703 1991. **group:** CSR-OTHER LEGUMES. **remarks:** Maturity 90 days. Tall erect, wide plant type that closes the rows quickly. Flowers white. Pods high above canopy. Resistant to F.o. tracheiphilum race 3 and homozygous for the Rk gene for resistance to southern root-knot nematode. Resistance to root-knot nematode breaks down in presence of some "aggressive" nematode populations found in California. Seed coat cream with black pigment. Spring Annual. Cultivar. Seed.

PI 548786. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N.W., Agricultural Research Service -- USDA, Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States. Received March 29, 1991.

origin: United States. **cultivar:** GT-CEW-RS8. **pedigree:** 34 southern inbreds bulked in a synthetic and selected for resistance to corn earworm for six cycles. **other id:** GP-51. **source:** Crop Sci. 15(5):738 1975. **group:** CSR-MAIZE. **remarks:** Maturity is AES 1200. Kernel color mixed. Resistance to ear damage by corn earworm (*Helicoverpa zea*) formerly *Heliothis zea*. Spring Annual. Breeding Material. Seed.

PI 548787. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N.W., Agricultural Research Service -- USDA, Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States. Received March 29, 1991.

origin: United States. **cultivar:** GE62. **pedigree:** From Good Golden. **remarks:** Kernel color yellow. Spring Annual. Breeding Material. Seed.

PI 548788. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N.W., Agricultural Research Service -- USDA, Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States. Received March 29, 1991.

origin: United States. **cultivar:** GT106. **remarks:** Kernel color yellow. Spring Annual. Breeding Material. Seed.

PI 548789. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N.W., Agricultural Research Service -- USDA, Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States. Received March 29, 1991.

origin: United States. **cultivar:** SC60. **pedigree:** SC399/L349 (SC399 is SC155 Gourd seed). **remarks:** Kernel color yellow. Maturity very late. Stalks and roots strong. Virus tolerance good. Husks tight. Spring Annual. Breeding Material. Seed.

PI 548790. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N.W., Agricultural Research Service -- USDA, Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States. Received March 29, 1991.

origin: United States. **cultivar:** SC91. **pedigree:** From SC491 which came from a variety cross. **remarks:** General combining ability good. Cob yellow-white. Husk long, tight. Grain quality good. Spring Annual. Breeding Material. Seed.

PI 548791. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N.W., Agricultural Research Service -- USDA, Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States. Received March 29, 1991.

PI 548791-continued

origin: United States. **cultivar:** SC114. **remarks:**
Kernels white. Spring Annual. Breeding Material. Seed.

PI 548792. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N.W., Agricultural Research Service -- USDA,
Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States.
Received March 29, 1991.

origin: United States. **cultivar:** SC213. **pedigree:**
GT112-NC33/GT112. **remarks:** Prolific with excellent
general combining ability. Husks long, tight. Seed
quality good. Kernels yellow. Resistance to both broods
of European corn borer (*Ostrinia nubilalis*). Spring
Annual. Breeding Material. Seed.

PI 548793. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N.W., Agricultural Research Service -- USDA,
Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States.
Received March 29, 1991.

origin: United States. **cultivar:** SC324. **remarks:**
Kernels yellow. Spring Annual. Breeding Material.
Seed.

PI 548794. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cross, H.Z., North Dakota Agr. Exp. Sta., North Dakota
State University, Fargo, North Dakota, United States; and
Agricultural Research Service -- USDA. **remarks:** ND266. Received
March 29, 1991.

origin: United States. **historical origin:** United States.
origin institute: North Dakota Agr. Exp. Sta., North
Dakota State University, Fargo, North Dakota 58105.
cultivar: ND266. **pedigree:** Selected by 8 generations of
selfing from NDS(DFS)C1, which was produced by one cycle
of reciprocal full-sib selection from NDS(D) using NDS(D) as
a tester. **other id:** PL-158. **source:** Crop Sci.
31(5):1401 1991. **group:** CSR-MAIZE. **remarks:** Yellow
dent inbred line with medium short plants having ears
above midpoint of stalk. Leaves medium short, wide.
Tassels large. Ears with 14-16 rows of small kernels are
borne on medium long shanks. Maturity late AES200. Has
produced hybrids with high combining ability for grain
yield. Spring Annual. Breeding Material. Seed.

PI 548795. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Meyer, W.A., Pure-Seed Testing, Inc., 3057 G. Street, Hubbard, Oregon, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pure-Seed Testing, Inc., Oregon. **cultivar:** SILVERADO. **pedigree:** Advanced generation synthetic resulting from four cycles of recurrent selection. Parents originate from old turf areas in Georgia and New Jersey and from selections from the variety Olympic. **other id:** PVP 8800130. **source:** Certificate in force. **group:** PVPO. **other id:** PST-5BL. **remarks:** Maturity medium late. Growth habit dwarf. Produces dark blue green turf with good density and improved performance in Oregon, Southern California, New Jersey, and Indiana. Reduced vertical growth and less clippings than standard tall fescue varieties. Perennial. Cultivar. Seed.

PI 548796. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Meyer, W.A., Pure-Seed Testing, Inc., 3057 G. Street, Hubbard, Oregon, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pure-Seed Testing, Inc., Oregon. **cultivar:** MONARCH. **pedigree:** Advanced generation synthetic resulting from three cycles of recurrent selection of germplasm originating from Georgia and New Jersey and the variety Olympic. **other id:** PVP 8700121. **source:** Certificate in force. **group:** PVPO. **other id:** Pure-Seed 5BB. **remarks:** Maturity medium late. Growth habit semi-dwarf. Produces attractive low growing turf. Head and drought tolerance good. Improved resistance to *Rhizoctonia solani* and *Gerlachia nivalis*. Perennial. Cultivar. Seed.

PI 548797. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Collins, S.D., Texas A & M University, College Station, Texas, United States. Received March 29, 1991.

origin: United States. **origin institute:** Texas A & M University, Texas. **cultivar:** Tx2891. **pedigree:** (SC414-12E*CS3541)-BK-2-3-3-BK(F6). **other id:** 87BB396. **remarks:** Tan nonsenescent germplasm line developed for improved resistance to several plant diseases. Panicles compact- elliptic showing tan awnless glumes covering less than one quarter of each caryopsis. Seeds white, lack a testa, and contain a partly corneous endosperm. Fertility restoration is in the A1 cytoplasm. Plant 2-dwarf, 120cm tall. 76 days to reach 50% anthesis. Spring Annual. Breeding Material. Seed.

PI 548798. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHJ89. **other id:** PVP 9100092. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548799. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHJ90. **other id:** PVP 9100093. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548800. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHJ93. **other id:** PVP 9100094. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548801. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHM81. **other id:** PVP 9100095. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548802. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHN66. **other id:** PVP 9100096. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548803. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHR03. **other id:** PVP 9100097. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548804. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHR55. **other id:** PVP 9100098. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548805. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHR58. **other id:** PVP 9100099. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548806. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHR61. **other id:** PVP 9100100. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548807. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHT11. **other id:** PVP 9100101. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548808. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHW30. **other id:** PVP 9100102. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548809. Oryza sativa L. POACEAE Rice

Donated by: Rice Tec, Inc., United States. Received March 29, 1991.

origin: United States. **origin institute:** Rice Tec, Inc.. **cultivar:** RT 7015. **other id:** PVP 9100103. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548810. Capsicum annuum L. SOLANACEAE Pepper

Donated by: Ferry-Morse Seed Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Ferry-Morse Seed Company. **cultivar:** OLE. **other id:** PVP 9100104. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548811. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Jonathan Green & Sons, Inc., United States; and Cascade International Seed Co.. Received March 29, 1991.

origin: United States. **origin institute:** Jonathan Green & Sons, Inc.. **cultivar:** DUKE. **other id:** PVP 9100105. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548812. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Jonathan Green & Sons, Inc., United States; and Cascade International Seed Co.. Received March 29, 1991.

origin: United States. **origin institute:** Jonathan Green & Sons, Inc.. **cultivar:** MONTAUK. **other id:** PVP 9100106. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548813. Carthamus tinctorius L. ASTERACEAE Safflower

Donated by: Seed Tec International, Inc., United States. Received March 29, 1991.

PI 548813-continued

origin: United States. **origin institute:** Seed Tec International, Inc.. **cultivar:** S-501. **other id:** PVP 9100107. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548814. *Allium cepa* L. LILIACEAE Onion

Donated by: Asgrow Seed Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** REDBONE. **other id:** PVP 9100108. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548815. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Jonathan Green & Sons, Inc., United States. Received March 29, 1991.

origin: United States. **origin institute:** Jonathan Green & Sons, Inc.. **cultivar:** PIERRE. **other id:** PVP 9100109. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548816. *Phaseolus vulgaris* L. FABACEAE Dry bean

Donated by: Asgrow Seed Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** XPB228. **other id:** PVP 9100110. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548817. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Delta and Pine Land Company, Mississippi, United States. Received March 29, 1991.

origin: United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DP 5816. **other id:** PVP 9100111. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548818. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Delta and Pine Land Company, Mississippi, United States. Received March 29, 1991.

PI 548818-continued

origin: United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DP 6166. **other id:** PVP 9100112. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548819. *Zinnia angustifolia* Kunth ASTERACEAE *Zinnia*

Donated by: W. Atlee Burpee Co., United States. Received March 29, 1991.

origin: United States. **origin institute:** W. Atlee Burpee Co.. **cultivar:** STAR WHITE. **other id:** PVP 9100113. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548820. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Northrup King Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** J8603. **other id:** PVP 9100114. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548821. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Delta and Pine Land Company, Mississippi, United States. Received March 29, 1991.

origin: United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DP 5461. **other id:** PVP 9100115. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548822. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Delta and Pine Land Company, Mississippi, United States. Received March 29, 1991.

origin: United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DP 5690. **other id:** PVP 9100116. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548823. *Hordeum vulgare* L. POACEAE Barley

Donated by: Busch Agricultural Resources, Inc., Berthoud, Colorado, United States. Received March 29, 1991.

PI 548823-continued

origin: United States. **origin institute:** Busch Agricultural Resources, Inc.. **cultivar:** B1614. **other id:** PVP 9100117. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548824. *Allium cepa* L. LILIACEAE Onion

Donated by: Asgrow Seed Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** EMERALD ISLE. **other id:** PVP 9100118. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548825. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Brown & Williamson Tobacco Corp., United States. Received March 29, 1991.

origin: United States. **origin institute:** Brown & Williamson Tobacco Corp.. **cultivar:** Y-1. **other id:** PVP 9100119. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548826. *Festuca longifolia* Thuill. POACEAE Hard fescue

Donated by: Van Engelen Zaden B.V., Netherlands. Received March 29, 1991.

origin: Netherlands. **origin institute:** Van Engelen Zaden B.V.. **cultivar:** EUREKA. **other id:** PVP 9100120. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548827. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: Harris Moran Seed Co., United States. Received March 29, 1991.

origin: United States. **origin institute:** Harris Moran Seed Company. **cultivar:** ORION. **other id:** PVP 9100121. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548828. *Brassica napus* L. BRASSICACEAE Rape

Donated by: Calgene, Inc., United States. Received March 29, 1991.

PI 548828-continued

origin: United States. **origin institute:** Calgene, Inc..
cultivar: FALCON. **other id:** PVP 9100122. **source:**
Pending. **group:** PVPO. Cultivar. Seed.

PI 548829. *Capsicum annuum* L. SOLANACEAE Jalapeno pepper

Donated by: Texas Agr. Exp. Sta., Texas, United States. Received
March 29, 1991.

origin: United States. **origin institute:** Texas Agr. Exp.
Sta., Texas. **cultivar:** TAM VERACRUZ. **other id:** PVP
9100123. **source:** Pending. **group:** PVPO. Cultivar.
Seed.

PI 548830. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received March
29, 1991.

origin: United States. **origin institute:** Dekalb Plant
Genetics. **cultivar:** 29MIBZ2. **other id:** PVP 9100124.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 548831. *Poa pratensis* L. POACEAE Bluegrass

Donated by: Idaho Agr. Exp. Sta., Idaho, United States. Received
March 29, 1991.

origin: United States. **origin institute:** Idaho Agr. Exp.
Sta., Idaho. **cultivar:** GEMAR. **other id:** PVP 9100125.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 548832. *Poa pratensis* L. POACEAE Bluegrass

Donated by: Idaho Agr. Exp. Sta., Idaho, United States. Received
March 29, 1991.

origin: United States. **origin institute:** Idaho Agr. Exp.
Sta., Idaho. **cultivar:** GREENLEY. **other id:** PVP 9100126.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 548833. *Avena sativa* L. POACEAE Common oat

Donated by: Minnesota Agr. Exp. Sta., Minnesota, United States.
Received March 29, 1991.

PI 548833-continued

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., Minnesota. **cultivar:** PREMIER. **other id:** PVP 9100129. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548834. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: FFR Cooperative, United States. Received March 29, 1991.

origin: United States. **origin institute:** FFR Cooperative. **cultivar:** FFR 695. **other id:** PVP 9100130. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548835. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ciba-Geigy Seeds Division, United States. Received March 29, 1991.

origin: United States. **origin institute:** Ciba-Geigy Seeds Division. **cultivar:** 3615. **other id:** PVP 9100131. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548836. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Delta and Pine Land Company, Mississippi, United States. Received March 29, 1991.

origin: United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DP 5415. **other id:** PVP 9100132. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548837. *Festuca rubra* subsp. *commutata* Gaud. POACEAE Chewings fescue

Donated by: NK Lawn and Garden Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** NK Lawn and Garden Company. **cultivar:** DOVER. **other id:** PVP 9100133. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 548838. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received March 29, 1991.

PI 548838-continued

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** MBSJ. **other id:** PVP 9100134.
source: Pending. **group:** PVPO. **Cultivar.** Seed.

PI 548839. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received March 29, 1991.

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** MBUB. **other id:** PVP 9100135.
source: Pending. **group:** PVPO. **Cultivar.** Seed.

PI 548840. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Snow Brand Seed Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Snow Brand Seed Company. **cultivar:** SOUTHERN CROSS. **other id:** PVP 9100136. **source:** Pending. **group:** PVPO. **Cultivar.** Seed.

PI 548841. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by: Pure-Seed Testing, Inc., Hubbard, Oregon, United States. Received March 29, 1991.

origin: United States. **origin institute:** Pure-Seed Testing, Inc.. **cultivar:** 4 ACES. **other id:** PVP 9100137. **source:** Pending. **group:** PVPO. **Cultivar.** Seed.

PI 548842. *Brassica napus* L. BRASSICACEAE Rape

Donated by: E.I. du Pont de Nemours and Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** E.I. du Pont de Nemours and Company. **cultivar:** IMC 01. **other id:** PVP 9100138. **source:** Pending. **group:** PVPO. **Cultivar.** Seed.

PI 548843. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Pickseed West, Inc., Tangent, Oregon, United States. Received March 29, 1991.

PI 548843-continued

origin: United States. **origin institute:** Pickseed West, Inc.. **cultivar:** MINI MUSTANG. **other id:** PVP 9100139.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 548844. Triticum aestivum L. POACEAE Common wheat

Donated by: Northrup King Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** COKER 9024. **other id:** PVP 9100140.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 548845. Triticum aestivum L. POACEAE Common wheat

Donated by: Northrup King Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** COKER 9803. **other id:** PVP 9100141.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 548846. Triticum aestivum L. POACEAE Common wheat

Donated by: Northrup King Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** COKER 9835. **other id:** PVP 9100142.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 548847. Triticum aestivum L. POACEAE Common wheat

Donated by: Northrup King Company, United States. Received March 29, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** COKER 9907. **other id:** PVP 9100143.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 548848 to 548849. *Befaria aestuans* Mutis ex L. f. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548848 **donor id:** 14161. **origin:** Ecuador. **collected:** November 14, 1990. **collector id:** 14161. **locality:** Cloud forest. Road to Cerro Toledo, 8-10km E of and above Yangana, Loja province. **latitude:** 04 deg. 20 min. S. **longitude:** 079 deg. 08 min. W. **elevation:** 2460-3323m. **remarks:** Shrub to 1 m tall in burned-over areas, to tree 10m tall x 20cm dbh. in undisturbed cloud forest. Petals pink. Flowers fragrant. Abundant. Wild. Pollen.

PI 548849 **donor id:** 14175. **origin:** Ecuador. **collected:** November 14, 1990. **collector id:** 14175. **locality:** Loma de Oro area, approx. 12km N of San Lucas, Loja province. **latitude:** 03 deg. 40 min. S. **longitude:** 079 deg. 15 min. W. **elevation:** 2954-3140m. **remarks:** Shrub (on this burned over site), 1.0-1.5m tall. Flower petals light pink to dark rose-red. Capsules tan. Common. *B. resinosa* also occurs on the site. Wild. Seed.

PI 548850. *Befaria resinosa* Mutis ex L. f. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14133. **origin:** Ecuador. **collected:** November 13, 1990. **collector id:** 14133. **locality:** Shrub paramo with *Befaria*, *Gaultheria*, *Macleania*, *Rubus*, *Vaccinium*, *Proteaceae* and braken fern. Paramo de Tinajillas, approx. 64.7km S of Cuenca, along road to Loja, Azuay province. **latitude:** 03 deg. 17 min. S. **longitude:** 079 deg. 10 min. W. **elevation:** 3323m. **remarks:** Terrestrial shrub to 3m tall. Inflorescence viscid. Corolla essentially tubular, deep pink to dark rose. Capsule brown. Abundant. Excellent ornamental. Wild. Seed.

PI 548851. *Bomarea* sp. AMARYLLIDACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14079. **origin:** Ecuador. **collected:** November 08, 1990. **collector id:** 14079. **locality:** Disturbed montane forest and subparamo ecotonal vegetation. IETEL towers side road, about 10km from the Otavalo - Selva Alegre road, Imbabura province. **latitude:** 00 deg. 16 min. S. **longitude:** 078 deg. 19 min. W. **elevation:** 3446m. **remarks:** Vine. Perianth red without, orangish within. Wild. Seed.

PI 548852 to 548854. *Cavendishia bracteata* (Ruiz Lopez & Pavon ex J. St.-Hil.) Hoer. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548852 **donor id:** 14084. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 08, 1990. **collector id:** 14084. **locality:** Disturbed montane forest and subparamo ecotonal vegetation. IETEL towers side road, about 10km from the Otavalo - Selva alegre road, Imbabura province. **latitude:** 0 deg. 16 min. N. **longitude:** 078 deg. 19 min. W. **elevation:** 3446m. **remarks:** Shrub to 3m tall. Bracts red. Corolla red with greenish tips. Common. Perennial. Wild. Seed.

PI 548853 **donor id:** 14223. **origin:** Ecuador. **collected:** November 20, 1990. **collector id:** 14223. **locality:** Heavily disturbed forest by roadside. Road between Rio Negro and Rio Verde, Tungurahua province. **latitude:** 01 deg. 23 min. S. **longitude:** 078 deg. 13 min. W. **elevation:** 1290-1850m. **remarks:** Terrestrial shrub to 2m tall, growing on roadbanks. Corolla red with greenish tip. No fruit. Wild. Plant.

PI 548852 to 548854-continued

PI 548854 **donor id:** 14227. **origin:** Ecuador. **collected:** November 22, 1990. **collector id:** 14227. **locality:** Disturbed montane forest. Quito-Tendayapa road, between Nono and Tandayapa, Pichincha province. **latitude:** 00 deg. 3 min. S. **longitude:** 078 deg. 42 min. W. **elevation:** 1780-2430m. **remarks:** Terrestrial shrub to 3m tall. Corolla red with greenish tips. Berry blue-black. Wild. Seed.

PI 548855. *Cavendishia tarapotana* (Meissner) Benth. & Hook. var. *tarapotana* ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14220. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 20, 1990. **collector id:** 14220. **locality:** Heavily disturbed forest with *Cecropia*, *Saurauria*, *Vismia* and leguminous tree species. Road between Puyo and Mera, Pastaza province. **latitude:** 01 deg. 30 min. S. **longitude:** 078 deg. 05 min. W. **elevation:** 1077-1230m. **remarks:** Terrestrial shrub to 3m tall. Bracts pink. Corolla white with red band distally. Berry dark purple, to 1.7cm dia. Perennial. Wild. Seed.

PI 548856. *Cavendishia* sp. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14217. **origin:** Ecuador. **collected:** November 20, 1990. **collector id:** 14217. **locality:** Heavily disturbed forest with *Cecropia*, *Saurauria*, *Vismia* and leguminous tree species. Road between Puyo and Mera, Pastaza province. **latitude:** 01 deg. 30 min. S. **longitude:** 078 deg. 05 min. W. **elevation:** 1077-1230m. **remarks:** Terrestrial shrub to 3m tall. No flowers or fruits. Wild. Plant.

PI 548857. *Ceratostema lanigerum* (Sleumer) Luteyn ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14216. **origin:** Ecuador. **collected:** November 20, 1990. **collector id:** 14216. **locality:** Heavily disturbed forest with *Cecropia*, *Saurauria*, *Vismia* and leguminous tree species. Road between Puyo and Merz, Pastaza province. **latitude:** 01 deg. 30 min. S. **longitude:** 078 deg. 05 min. W. **elevation:** 1077-1230m. **remarks:** Epiphyte from a lignotuber. Corolla dark scarlet with blue-black lobes. Scattered. Wild. Plant.

PI 548858. *Ceratostema reginaldii* (Sleumer) A. C. Smith ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14159. **origin:** Ecuador. **collected:** November 14, 1990. **collector id:** 14159. **locality:** Cloud forest. Road to Cerro Toledo, 8-10km E of and above Yangana, Loja province. **latitude:** 04 deg. 20 min. S. **longitude:** 079 deg. 08 min. W. **elevation:** 2460-3323m. **remarks:** Past bloom, only calyces remaining. Seedlings with lignotubers collected. Wild. Plant.

PI 548859. *Disterigma alaternoides* (Kunth) Niedenzu ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548859-continued

donor id: 14165. **origin:** Ecuador. **collected:** November 15, 1990. **collector id:** 14165. **locality:** Disturbed montane forest. Old road from Loja to Zamora, 15km from Loja, Zamora/Chinchipe province. **latitude:** 03 deg. 57 min. S. **longitude:** 079 deg. 07 min. W. **elevation:** 2800m. **remarks:** Subshrub to about 0.8m tall. Fruit white. Wild. Seed.

PI 548860. *Disterigma empetrifolium* (Kunth) Drude ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14124. **origin:** Ecuador. **collected:** November 12, 1990. **collector id:** 14124. **locality:** Gualaceo-Limon road, approx. 23km E of Gualaceo in Paramos de Culebrillas, Azuay province. **latitude:** 03 deg. 01 min. S. **longitude:** 078 deg. 41 min. W. **elevation:** 3477m. **remarks:** Attractive subshrub 2dm tall. Small linear leaves. Corolla variable in color but mostly rose. Berry fairly large, translucent white. Abundant on roadbanks and roadsides. Wild. Seed.

PI 548861. *Disterigma pentandrum* S. F. Blake ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14234. **origin:** Ecuador. **collected:** November 22, 1990. **collector id:** 14234. **locality:** Disturbed montane forest, Quito-Tendayapa road, between Nono and Tandayapa, Pichincha province. **latitude:** 00 deg. 03 min. S. **longitude:** 078 deg. 41 min. W. **elevation:** 1780-2430m. **remarks:** Corolla red. Rare. Wild. Plant.

PI 548862. *Disterigma popenoi* S. F. Blake ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14145. **origin:** Ecuador. **collected:** November 14, 1990. **collector id:** 14145. **locality:** Cloud forest. Road to Cerro Toledo, 8-10km E of and above Yangana, Loja province. **latitude:** 04 deg. 20 min. S. **longitude:** 079 deg. 08 min. W. **elevation:** 2460-3323m. **remarks:** Terrestrial shrublet to 1 m tall. Corolla and fruit white. Common. Wild. Seed.

PI 548863 to 548864. *Disterigma* sp. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548863 **donor id:** 14048. **origin:** Ecuador. **collected:** November 06, 1990. **collector id:** 14048. **locality:** Paramo vegetation in outwash area and cloud forest along lake. Outwash area just E of Laguma San Marcos and N slope along lake, Sucumbios province. **latitude:** 00 deg. 07 min. S. **longitude:** 077 deg. 52 min. W. **elevation:** 3477m. **remarks:** Terrestrial shrub. Calyx and corolla pale green. Corolla campanulate. Berry translucent white. Wild. Seed.

PI 548864 **donor id:** 14054. **origin:** Ecuador. **collected:** November 06, 1990. **collector id:** 14054. **locality:** Heavily disturbed forest edges. Margins of Laguna Papallacta, Napo province. **latitude:** 00 deg. 25 min. S. **longitude:** 078 deg. 10 min. W. **elevation:** 3385m. **remarks:** Epiphytic shrub. Corolla deep red. Berry white. Scattered. Wild. Seed.

PI 548865 to 548866. *Fragaria vesca* L. ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548865 **donor id:** 14098. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 12, 1990. **collector id:** 14098. **locality:** Roadsides and slopes along edge of cultivated fields. Gualaceo-Limon road, approx. 3.4km E of Gualaceo, Azuay province. **latitude:** 02 deg. 05 min. S. **longitude:** 078 deg. 43 min. W. **elevation:** 2462m. **remarks:** Stoloniferous herb. Petals white. Fruit red. Scattered probable escape. Perennial. Wild. Seed.

PI 548866 **donor id:** 14110. **origin:** Ecuador. **collected:** November 11, 1990. **collector id:** 14110. **locality:** Heavily disturbed montane forest. Gualaceo-Limon road, approx. 12.1km E of Gualaceo, Azuay province. **latitude:** 02 deg. 53 min. S. **longitude:** 078 deg. 40 min. W. **elevation:** 2954m. **remarks:** Stoloniferous herb. Petals white. Fruits red. Common. Wild. Seed.

PI 548867. *Gaultheria amoena* A. C. Smith ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14046. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14046. **locality:** Paramo vegetation in outwash area and cloud forest along lake. Outwash area just E of Laguma San Marcos and N slope along lake, Sucumbios province. **latitude:** 00 deg. 07 min. S. **longitude:** 077 deg. 52 min. W. **elevation:** 3477m. **remarks:** Trailing subshrub to 2dm tall. Corolla rose-red. Mature calyx white. Locally common by roadside near lake margin. Potential evergreen groundcover. Perennial. Wild. Seed.

PI 548868 to 548870. *Gaultheria erecta* Vent. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548868 **donor id:** 14125. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14125. **locality:** Gualaceo-Limon road, approx. 23km E of Gualaceo in Paramos de Culebrillas, Azuay province. **latitude:** 03 deg. 01 min. S. **longitude:** 078 deg. 41 min. W. **elevation:** 3477m. **remarks:** Shrub to 1 m tall. Corollas dark-red. Mature calyx blue-black. Common. Perennial. Wild. Seed.

PI 548869 **donor id:** 14162. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14162. **locality:** Disturbed montane forest. Old road from Loja to Zamora 15 km from Loja, Zamora/Chinchi province. **latitude:** 03 deg. 57 min. S. **longitude:** 079 deg. 07 min. W. **elevation:** 2800m. **remarks:** Terrestrial shrub to 1 m tall. Corolla dark red. Mature calyx blue-black. Common. Perennial. Wild. Seed.

PI 548870 **donor id:** 14188. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14188. **locality:** Disturbed subparamo vegetation along road. Cuenca-Las Cajas Recreational Area road, 14-16km W of Cuenca, Azuay province. **latitude:** 02 deg. 50 min. S. **longitude:** 079 deg. 05 min. W. **elevation:** 3169-3230m. **remarks:** Shrub to 1.7m tall. Mature calyx dark blue-black. Common. Perennial. Wild. Seed.

PI 548871. *Gaultheria glomerata* (Cav.) Sleumer ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548871-continued

donor id: 14190. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14190. **locality:** Disturbed subparamo vegetation along road. Cuenca-Las Cajas Recreational Area road, 14-16km W of Cuenca, Azuay province. **latitude:** 02 deg. 50 min. S. **longitude:** 079 deg. 05 min. W. **elevation:** 3169-3230m. **remarks:** Prostrate subshrub. Corolla rose. Calyx black. Perennial. Wild. Seed.

PI 548872. *Gaultheria reticulata* Kunth ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14136. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14136. **locality:** Shrub paramo with Befaria, Gaultheria, Macleania, Rubus, Vaccinium, Proteaceae and bracken fern. Paramo de Tinajillas, approx. 64.7km S of Cuenca, along road to Loja, Azuay province. **latitude:** 03 deg. 17 min. S. **longitude:** 079 deg. 10 min. W. **elevation:** 3323m. **remarks:** Shrub to 2m tall. Corolla white. Mature calyx reddish-white. Common. Resembles Pieris in flower. Perennial. Wild. Seed.

PI 548873. *Gaultheria tomentosa* Kunth ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14174. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14174. **locality:** Loma de Oro area, approx. 12km N of San Lucas, Loja province. **latitude:** 03 deg. 40 min. S. **longitude:** 079 deg. 15 min. W. **elevation:** 2954m. **remarks:** Shrub to 1 m tall. Corolla red. Mature calyx brownish. Scattered plants. Perennial. Wild. Seed.

PI 548874. *Gaultheria strigosa* Benth. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14126. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14126. **locality:** Gualaceo-Limon road, approx. 23km E of Gualaceo in Paramos de Culebrillas, Azuay province. **latitude:** 03 deg. 01 min. S. **longitude:** 078 deg. 41 min. W. **elevation:** 3477m. **remarks:** Shrub to 2.5m tall. Corolla dark red. Mature calyx whitish-red, open, exposing the capsule. Perennial. Wild. Seed.

PI 548875. *Macleania coccoloboides* A. C. Smith ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14228. **origin:** Ecuador. **collected:** November 22, 1990. **collector id:** 14228. **locality:** Disturbed montane forest. Quito-Tendayapa road, between Nono and Tandayapa, Pichincha province. **latitude:** 00 deg. 03 min. S. **longitude:** 078 deg. 42 min. W. **elevation:** 1780-2430m. **remarks:** Terrestrial, from a lignotuber. Wild. Plant.

PI 548876. *Macleania bullata* Yeo ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548876-continued

donor id: 14232. **origin:** Ecuador. **collected:** November 22, 1990. **collector id:** 14232. **locality:** Disturbed montane forest. Quito-Tendayapa road, between Nono and Tandayapa, Pichincha province. **latitude:** 00 deg. 03 min. S. **longitude:** 078 deg. 42 min. W. **elevation:** 1780-2430m. **remarks:** Terrestrial shrub to 1.5m tall. Corolla bright orange, tubular. Very floriferous along lateral branches. No fruit. Scattered. Wild. Plant.

PI 548877. *Macleania ecuadorensis* Hoer. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14223. **origin:** Ecuador. **collected:** November 22, 1990. **collector id:** 14223. **locality:** Disturbed montane forest. Quito-Tendayapa road, between Nono and Tandayapa, Pichincha province. **latitude:** 00 deg. 03 min. S. **longitude:** 078 deg. 42 min. W. **elevation:** 1780-2430m. **remarks:** Terrestrial shrub to 2m tall, from lignotubers. Flower bud reddish at base, green distally. Scattered. Wild. Plant.

PI 548878. *Macleania loeseneriana* Hoer. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14235. **origin:** Ecuador. **collected:** November 22, 1990. **collector id:** 14235. **locality:** Steep roadside cliff, heavily disturbed. Quito-Nono road, 4km NW of Nono, Pichincha province. **latitude:** 00 deg. 05 min. S. **longitude:** 078 deg. 37 min. W. **elevation:** 2738m. **remarks:** Terrestrial shrub to 3m tall. Corolla red with whitish tips. No fruit. Scattered. Wild. Plant.

PI 548879 to 548880. *Macleania rupestris* (Kunth) A. C. Smith ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548879 **donor id:** 14053. **origin:** Ecuador. **collected:** November 06, 1990. **collector id:** 14053. **locality:** Paramo vegetation in outwash area and cloud forest along lake. Outwash area just E of Laguma San Marcos and N slope along lake, Sucumbios province. **latitude:** 00 deg. 07 min. S. **longitude:** 077 deg. 52 min. W. **elevation:** 3477m. **remarks:** Terrestrial or epiphytic shrub. Corollas whitish with pink tint. Berry violet, to 1.2cm dia. Scattered, in cloud forest. Wild. Seed.

PI 548880 **donor id:** 14137. **origin:** Ecuador. **collected:** November 13, 1990. **collector id:** 14137. **locality:** Shrub paramo with *Befaria*, *Gaultheria*, *Macleania*, *Rubus*, *Vaccinium*, *Proteaceae* and bracken fern. Paramo de Tinajilla, approx. 64.7km S of Cuenca, along road to Loja, Azuay province. **latitude:** 03 deg. 17 min. S. **longitude:** 079 deg. 10 min. W. **elevation:** 3323m. **remarks:** Terrestrial shrub to 2m tall. Corolla red with pale yellow-green tip. Berry purple, to 1.3cm dia. Common. Wild. Seed.

PI 548881. *Macleania salapa* (Benth.) Benth. & Hook. f. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14144. **origin:** Ecuador. **collected:** November 14, 1990. **collector id:** 14144. **locality:** Cloud forest. Road to Cerro Toledo, 8-10km E of and above Yangana, Loja province. **latitude:** 04 deg. 20 min. S. **longitude:** 079 deg. 08 min. W. **elevation:** 2460-3323m. **remarks:** Terrestrial shrub from lignotuber. Calyx green. Corolla red. Abundant, fire seems to stimulate regrowth. Wild. Plant.

PI 548882. *Psammisia coarctata* (Ruiz Lopez & Pavon) A. C. Smith
ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14219. **origin:** Ecuador. **collected:** November 20, 1990. **collector id:** 14219. **locality:** Heavily disturbed forest with *Cecropia*, *Saurauria*, *Vismia* and leguminous tree species. Road between Puyo and Mera, Pastaza province. **latitude:** 01 deg. 30 min. S. **longitude:** 078 deg. 05 min. W. **elevation:** 1077-1230m. **remarks:** No flowers or fruit. Wild. Plant.

PI 548883. *Psammisia ecuadorensis* Hoer. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14231. **origin:** Ecuador. **collected:** November 22, 1990. **collector id:** 14231. **locality:** Disturbed montane forest. Quito-Tendayapa road, between Nono and Tandayapa, Pichincha province. **latitude:** 00 deg. 03 min. S. **longitude:** 078 deg. 42 min. W. **elevation:** 1780-2430m. **remarks:** Terrestrial or epiphytic shrub. Calyx and pedicel orange. Corolla yellow at base, greenish distally (above the constriction). No fruit. Occasional. Wild. Plant.

PI 548884. *Psammisia ferruginea* A. C. Smith ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548884-continued

donor id: 14218. **origin:** Ecuador. **collected:** November 20, 1990. **collector id:** 14218. **locality:** Heavily disturbed forest with Cecropia, Saurauria, Vismia and leguminous tree species. Road between Puyo and Mera, Pastaza province. **latitude:** 01 deg. 30 min. S. **longitude:** 078 deg. 05 min. W. **elevation:** 1077-1230m. **remarks:** Terrestrial shrub, arching to 2m. Calyx red-orange. Corolla past anthesis. No fruit. Wild. Plant.

PI 548885. *Psammisia sodiroi* Hoer. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14229. **origin:** Ecuador. **collected:** November 22, 1990. **collector id:** 14229. **locality:** Disturbed montane forest, Quito-Tendayapa road, between Nono and Tandayapa, Pichincha province. **latitude:** 01 deg. 03 min. S. **longitude:** 078 deg. 42 min. W. **elevation:** 1780-2430m. **remarks:** Terrestrial shrub to 2m tall. Calyx reddish-orange. Lower corolla purplish-red, upper tip dark green. No fruit. Wild. Plant.

PI 548886. *Psammisia ulbrichiana* Hoer. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14230. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 22, 1990. **collector id:** 14230. **locality:** Disturbed montane forest, Quito-Tendayapa road, between Nono and Tandayapa, Pichincha province. **latitude:** 01 deg. 03 min. S. **longitude:** 078 deg. 42 min. W. **elevation:** 1780-2430m. **remarks:** Terrestrial shrub to over 3m tall. Pedicel, calyx, and basal 2/3 of the corolla bright red. Upper 1/3 of corolla white (above the constriction). Fruit green but seeds essentially mature. Fruit to 1.8cm dia. Scattered. Perennial. Wild. Seed.

PI 548887. *Ribes lehmannii* Jancz. GROSSULARIACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14116. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14116. **locality:** Gualaceo-Limon road, approx. 21km E of Gualaceo in Paramos de Culebrillas, Azuay province. **latitude:** 03 deg. 01 min. S. **longitude:** 078 deg. 40 min. W. **elevation:** 3230m. **remarks:** Shrub to 1.6m tall. Corolla clear green. Berry orange, somewhat translucent. Occasional. Perennial. Wild. Seed.

PI 548888. *Rubus acanthophyllos* Focke ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14121. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14121. **locality:** Gualaceo-Limon road, approx. 23km E of Gualaceo in Paramos de Culebrillas, Azuay province. **latitude:** 03 deg. 01 min. S. **longitude:** 078 deg. 41 min. W. **elevation:** 3477m. **remarks:** Suffrutescent, scrambling subshrub. Canes to 1 m long, hispid. Leaves simple. Petals magenta. Fruit black. Common. Perennial. Wild. Seed.

PI 548889 to 548890. *Rubus adenothallus* Focke ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548889 to 548890-continued

PI 548889 **donor id:** 14022. **origin:** Ecuador. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Ecuadorian seedlot CRUB 1559. **collector id:** 14022. Perennial. Breeding Material. Plant.

PI 548890 **donor id:** 14167. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14167. **locality:** Disturbed montane forest. Old road from Loja to Zamora, Zamora/Chinchiipe province. **latitude:** 03 deg. 57 min. S. **longitude:** 079 deg. 06 min. W. **elevation:** 2400m. **remarks:** Arching canes to over 5m long. Petals white to pink. Mostly flowers and green fruit (a few black fruit - viability?). Typical for the species. Occasional by roadside. Perennial. Wild. Seed.

PI 548891 to 548895. *Rubus bogotensis* Kunth ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548891 **donor id:** 14073. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14073. **locality:** Disturbed montane forest and subparamo ecotonal vegetation. IETEL towers side road, about 10km from the Otavalo-Selva road, Imbabura province. **latitude:** 00 deg. 16 min. N. **longitude:** 078 deg. 19 min. W. **elevation:** 3446m. **remarks:** Arching tomentose canes to 6m long. Uniformly three leaflets. Fruits black, about 5% ripe. Perennial. Wild. Seed.

PI 548892 **donor id:** 14131. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14131. **locality:** Shrub paramo with *Befaria*, *Gaultheria*, *Macleania*, *Rubus*, *Vaccinium*, *Proteaceae* and bracken fern. Paramo de Tinajillas, approx. 64.7km S of Cuenca, along road to Loja, Azuay province. **latitude:** 03 deg. 17 min. S. **longitude:** 079 deg. 10 min. W. **elevation:** 3323m. **remarks:** Very vigorous arching canes to 4m long, pubescent with stipitate hairs. Strictly trifoliate leaves. Flowers small, petals pinkish. Fruits fairly large, starting to ripen (black). Only one clone fruiting. Scattered plants. Very similar overall to 14073. Perennial. Wild. Seed.

PI 548891 to 548895-continued

PI 548893 **donor id:** 14179. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14179. **locality:** Loma de Oro area, approx. 12km N of San Lucas, Loja province. **latitude:** 03 deg. 40 min. S. **longitude:** 079 deg. 15 min. W. **elevation:** 2954-3140m. **remarks:** Arching shrub to 3m long. Very similar to 14073, but only partially fertile (or poor fruit set). Common. Perennial. Wild. Seed.

PI 548894 **donor id:** 14187. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14187. **locality:** Subparamo vegetation along the Pan American Hwy, approx. 22.6km N of Saraguro, Loja province. Pinus plantation with scattered natural vegetation. **latitude:** 03 deg. 33 min. S. **longitude:** 079 deg. 13 min. W. **elevation:** 3100m. **remarks:** Extensive colonies scattered along highway, all plants have poor fruit set and very large drupelets which usually fall apart on picking. Flowers either small and pink or large and white. Within each flower type, plants so uniform they could easily be apomicts. Perennial. Wild. Seed.

PI 548895 **donor id:** 14195. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14195. **locality:** Disturbed subparamo vegetation along road. Cuenca-Las Cajas Recreational Area road, 14-16km W of Cuenca, Azuay province. **latitude:** 02 deg. 50 min. S. **longitude:** 079 deg. 05 min. W. **elevation:** 3169-3230m. **remarks:** Arching canes, over 4m long. Stems only slightly angled, covered with red glandular hairs. Leaves essentially 3 - foliate. Flowers small and pink. Generally poor fruit set and large drupelets which crumble readily. Most fruit and many flower clusters appear to be infected by Botrytis. Perennial. Wild. Seed.

PI 548896 to 548899. *Rubus coriaceus* Poiret ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548896 to 548899-continued

- PI 548896 **donor id:** 14027. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14027. **locality:** Espeletia paramo with rock outcrops at las Lugunas. Maldonado road, 13.7km W of Tufino, Carchi province. **latitude:** 00 deg. 50 min. N. **longitude:** 077 deg. 55 min. W. **elevation:** 3938m. **remarks:** Trailing, herbaceous subshrub. Stoloniferous. Stem glabrous. Simple leaves. Petals dark magenta. Fruit translucent pinkish-rose. Rare, among Polylepis and rock outcrops. Perennial. Wild. Seed.
- PI 548897 **donor id:** 14039. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14039. **locality:** Shrub paramo, burned within last 18 months. Road to Laguna San Marcos, approx. 13km E of Olmedo, Sucumbios province. **latitude:** 00 deg. 23 min. N. **longitude:** 078 deg. 04 min. W. **elevation:** 2492m. **remarks:** Trailing or climbing subshrub. Glabrous stems, simple leaves. Petals deep magenta. Mature fruit red. Plants scattered on site. Perennial. Wild. Seed.
- PI 548898 **donor id:** 14061. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14061. **locality:** Heavily disturbed forest edges. Margins of Laguna Papallacta, Napo province. **latitude:** 00 deg. 25 min. N. **longitude:** 078 deg. 10 min. W. **elevation:** 3385m. **remarks:** Typical for the species. Fruit bright red. Perennial. Wild. Seed.
- PI 548899 **donor id:** 14211. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14211. **locality:** Polylepis forest. Las Cajas Recreational Area, 43.5km W of Cuenca, Azuay province. **latitude:** 02 deg. 49 min. S. **longitude:** 079 deg. 07 min. W. **elevation:** 3690m. **remarks:** Scandent subshrub. Petals magenta. Fruit red. Typical for the species. Perennial. Wild. Seed.

PI 548900. *Rubus ellipticus* Smith ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548900-continued

donor id: 14035. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14035. **locality:** Weedy vegetation along roadside and hedge row. Approx. 4km E of Ibarra along road towards Laguna San Marcos, Imbabura province. **latitude:** 00 deg. 23 min. S. **longitude:** 078 deg. 04 min. W. **elevation:** 2492m. **remarks:** Arching shrub. Primocanes to 3m plus tall, 2.5cm dia. Petals white. Mature fruit small, golden-yellow. Escape, scattered through area. Perennial. Wild. Seed.

PI 548901 to 548903. *Rubus glabratus* Kunth ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548901 **donor id:** 14026. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14026. **locality:** Disturbed shrub subparamo. Maldonado road, 3.0km W of Tufino, Carchi province. **latitude:** 00 deg. 48 min. N. **longitude:** 077 deg. 52 min. W. **elevation:** 3400m. **remarks:** Trailing shrublet. Primocanes to about 1.5m, glabrous. Three leaflets. Petals pink-rose. Immature to partially mature fruits, reddish-orange. Occasional. Perennial. Wild. Seed.

PI 548902 **donor id:** 14090. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14090. **locality:** Cultivated *Pinus radiata* forest (3440m) and paramo (3820m) on slopes of vulcan Cotopaxi. Cotopaxi National Park, Cotopaxi province. **latitude:** 00 deg. 40 min. S. **longitude:** 078 deg. 25 min. W. **elevation:** 3440-3820m. **remarks:** Trailing shrublet, canes to 1 m. Petals rose to magenta. Typical for the species. Occasional in *P. radiata* forest. Perennial. Wild. Seed.

PI 548901 to 548903-continued

PI 548903 **donor id:** 14132. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14132. **locality:** Shrub paramo with Befaria, Gaultheria, Macleania, Rubus, Vaccinium, Proteaceae and bracken fern. Paramo de Tinajillas, approx. 64.7km S of Cuenca, along road to Loja, Azuay province. **latitude:** 03 deg. 17 min. S. **longitude:** 079 deg. 10 min. W. **elevation:** 3323m. **remarks:** Vigorous canes to over 3m long, clambering through shrubs and small trees. Stems and leaves glabrous. Leaves strictly trifoliate. Flowers magenta. Fruits red, mostly immature. Occasional. Perennial. Wild. Seed.

PI 548904 to 548907. *Rubus glaucus* Benth. ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548904 **donor id:** Sample #1. **origin:** Ecuador. **pedigree:** Unknown. **local name:** Mora. **collected:** November 1990. **locality:** Ambato. Perennial. Cultivated. Seed.

PI 548905 **donor id:** Sample #2. **origin:** Ecuador. **pedigree:** Unknown. **local name:** Mora. **collected:** November 1990. **locality:** Ambato. Perennial. Cultivated. Seed.

PI 548906 **donor id:** Sample #3. **origin:** Ecuador. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from seedlot CRUB 1563. **local name:** Mora. Perennial. Breeding Material. Plant.

PI 548907 **donor id:** Sample #4. **origin:** Ecuador. **pedigree:** Unknown. **local name:** Mora. **collected:** November 1990. **locality:** Ambato. Perennial. Cultivated. Seed.

PI 548908 to 548910. *Rubus macrocarpus* Benth. ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548908 **donor id:** 14020. **origin:** Ecuador. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Ecuadorian seedlot CRUB 1558. **collector id:** 14020. Perennial. Breeding Material. Plant.

PI 548909 **donor id:** 14032. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14032. **locality:** Disturbed slopes through subparamo. Tulena-El Angel road, approx. 9km SW of the Pan American Hwy, Carchi province. **latitude:** 00 deg. 48 min. N. **longitude:** 077 deg. 48 min. W. **elevation:** 3385m. **remarks:** Morphologically very similar to 14020. Rust evident again, especially on calyces of fruit. Scattered on site. Perennial. Wild. Seed.

PI 548910 **donor id:** 14060. **origin:** Ecuador. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Ecuadorian seedlot CRUB 1560. **collector id:** 14060. Perennial. Breeding Material. Plant.

PI 548911. *Rubus niveus* Thunb. ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

origin: Ecuador. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from seedlot CRUB 1564. Perennial. Breeding Material. Plant.

PI 548912 to 548915. *Rubus robustus* C. Presl ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548912 **donor id:** 14019. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14019. **locality:** Highly disturbed subparamo vegetation along roadside. Maldonada road, 1.4km W of Tufino, Carchi province. **latitude:** 00 deg. 48 min. N. **longitude:** 077 deg. 52 min. W. **elevation:** 3292m. **remarks:** Upright but arching stems to 2m. Stems tomentose, with sparse prickles. Five leaflets. Large compound inflorescence. Petals pinkish-white. Fruit small, a few starting to ripen. Occasional plants. Perennial. Wild. Seed.

PI 548913 **donor id:** 14096. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14096. **locality:** Roadsides and slopes along edge of cultivated fields. Gualaceo-Limon road, approx. 3.4km E of Gualaceo, Azuay province. **latitude:** 02 deg. 05 min. S. **longitude:** 078 deg. 43 min. W. **elevation:** 2462m. **remarks:** Typical for the species. Petals white. Fruit black. Scattered. Perennial. Wild. Seed.

PI 548914 **donor id:** 14139. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14139. **locality:** Heavily disturbed and burned slopes. *Fragaria vesca* and *Rubus niveus* scattered along road, neither with fruit. Road to Cerro Toledo, 4.5km E of and above Yangana, Loja province. **latitude:** 04 deg. 20 min. S. **longitude:** 079 deg. 10 min. W. **elevation:** 2307m. **remarks:** Arching primocanes 2-4m long. Quite variable vigor, depending on microenvironment. Abundant flowers, petals white to pinkish. Few fruits, high abortion rate (or poor set) of drupelets. Fruit black. Common by roadside. Perennial. Wild. Seed.

PI 548912 to 548915-continued

PI 548915 **donor id:** 14163. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14163. **locality:** Disturbed montane forest. Old road from Loja to Zamora, 15km from Loja, Zamora/Chinchiipe province. **latitude:** 03 deg. 57 min. S. **longitude:** 079 deg. 07 min. W. **elevation:** 2800m. **remarks:** Extremely variable vigor and fruit set, apparently partly dependent on environment; ranging from weak plants with generally very poor fruit set, growing on dry exposed roadside, to very vigorous plants with large fruit and excellent fruit set, growing in moist cove. Flower petals white, fruit black. Perennial. Wild. Seed.

PI 548916 to 548921. *Rubus roseus* Poiret ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548916 **donor id:** 14059. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14059. **locality:** Heavily disturbed forest edges. Margins of Laguna Papallacta, Napo province. **latitude:** 00 deg. 25 min. S. **longitude:** 078 deg. 10 min. W. **elevation:** 3385m. **remarks:** Scandent shrub. Stems glabrous, to over 4m long, when climbing through trees. Leaves typical. Petals magenta. Fruit bright red, mostly only partially mature, to 2.5 x 2.5cm. Plant abundant. Perennial. Wild. Seed.

PI 548917 **donor id:** 14074. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14074. **locality:** Disturbed montane forest and subparamo ecotonal vegetation. IETEL towers side road, about 10km from Otavalo - Selva Alegre road, Imbabura province. **latitude:** 00 deg. 16 min. N. **longitude:** 078 deg. 19 min. W. **elevation:** 3446m. **remarks:** Scandent habit. Extremely vigorous canes to 6m long, glabrous. Flowers petals magenta. Fruit dark red when ripe, very large, up to 38mm long by 32mm dia. Outstanding population. Plants scattered, but relatively abundant. Perennial. Wild. Seed.

PI 548916 to 548921-continued

- PI 548918 **donor id:** 14113. **origin:** Ecuador. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Ecuadorian seedlot CRUB 1561. **collector id:** 14113. Perennial. Breeding Material. Plant.
- PI 548919 **donor id:** 14150. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14150. **locality:** Cloud forest. Road to Cerro Toledo, 8-10km E of and above Yangana, Loja province. **latitude:** 04 deg. 20 min. S. **longitude:** 079 deg. 08 min. W. **elevation:** 2460-3323m. **remarks:** Canes to 1.5m long. Canes and trifoliolate leaves hispid. Corolla magenta. Fruit red. Rare. Perennial. Wild. Seed.
- PI 548920 **donor id:** 14164. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14164. **locality:** Disturbed montane forest. Old road from Loja to Zamora, 15km from Loja, Zamora/Chinchiipe province. **latitude:** 03 deg. 57 min. S. **longitude:** 079 deg. 07 min. W. **elevation:** 2800m. **remarks:** Trailing canes to 2.5m long. Canes and leaves glabrous. Petals magenta. One partially-ripe fruit, red. Rare. Perennial. Wild. Seed.
- PI 548921 **donor id:** 14189. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14189. **locality:** Disturbed subparamo vegetation along road. Cuenca-Las Cajas Recreational Area road, 14-16km W of Cuenca, Azuay province. **latitude:** 02 deg. 50 min. S. **longitude:** 079 deg. 05 min. W. **elevation:** 3169-3230m. **remarks:** Trailing or climbing stems to over 4m long, with a few scattered stipitate glands. Basically typical for the species and similar to 14074, except greater number of nodes fertile in the inflorescence (good potential productivity). Flowers magenta. Most fruit only partially-ripe, very large size. Perennial. Wild. Seed.

PI 548922 to 548930. *Rubus* sp. ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548922 to 548930-continued

- PI 548922 **donor id:** 14077. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14077. **locality:** Disturbed montane forest and subparamo ecotonal vegetation. IETEL towers side road, about 10km from Otavalo - Selva Alegre road, Imbabura province. **latitude:** 00 deg. 16 min. N. **longitude:** 078 deg. 19 min. W. **elevation:** 3446m. **remarks:** Trailing habit, canes to 0.5m long. Canes and leaves glabrous. Petals magenta. Fruits small, black. Perennial. Wild. Seed.
- PI 548923 **donor id:** 14104. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14104. **locality:** Heavily disturbed montane forest. Gualaceo-Limon road, approx. 12.1km E of Gualaceo, Azuay province. **latitude:** 02 deg. 53 min. S. **longitude:** 078 deg. 40 min. W. **elevation:** 2954m. **remarks:** Arching shrub, with canes to 1.5m long. Flower petals pale greenish-white. Berry small, black. Occasional. Perennial. Wild. Seed.
- PI 548924 **donor id:** 14123. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14123. **locality:** Gualaceo-Limon road, approx. 23km E of Gualaceo in Paramos de Culebrillas, Azuay province. **latitude:** 03 deg. 01 min. S. **longitude:** 078 deg. 41 min. W. **elevation:** 3477m. **remarks:** Arching primocanes to 2m long. Flower petals greenish. Fruit black, with large drupelets, which shatter on picking. Perennial. Wild. Seed.
- PI 548925 **donor id:** 14180. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14180. **locality:** Pinus plantation with scattered natural vegetation. Subparamo vegetation along the Pan American Hwy, approx. 22.6km N of Saraguro, Loja province. **latitude:** 03 deg. 33 min. S. **longitude:** 079 deg. 13 min. W. **elevation:** 3100m. **remarks:** Arching canes to 2m long. Small green flowers. Fruit black, small (but with fairly large seeds). Same as 14104. Rare on site. Perennial. Wild. Seed.
- PI 548926 **donor id:** 14194. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14194. **locality:** Disturbed subparamo vegetation along road. Cuenca-Las Cajas Recreational Area road, 14-16km W of Cuenca, Azuay province. **latitude:** 02 deg. 50 min. S. **longitude:** 079 deg. 05 min. W. **elevation:** 3169-3230m. **remarks:** Arching canes to 2m long. Leaves shiny-green. Flowers small. Petals greenish. Fruit small, black. Perennial. Wild. Seed.

PI 548922 to 548930-continued

- PI 548927 **donor id:** 14196. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14196. **locality:** Disturbed subparamo vegetation along road. Cuenca-Las Cajas Recreational Area road, 14-16km W of Cuenca, Azuay province. **latitude:** 02 deg. 50 min. S. **longitude:** 079 deg. 05 min. W. **elevation:** 3169-3230m. **remarks:** Arching, tomentose, non-glandular stems, over 3m long. Leaves with 3 or mostly 5 leaflets. Inflorescence narrow, no open flowers. Poor fruit set and large drupelets, which crumble easily. Most fruit has dried-up, apparently following Botrylis infection. Perennial. Wild. Seed.
- PI 548928 **donor id:** 14224. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14224. **locality:** Open-disturbed area on right resulting from land clearing-filling operations. Puyo to Ambato road, 5.2km W of Banos, Tungurahua province. **latitude:** 01 deg. 21 min. S. **longitude:** 078 deg. 24 min. W. **elevation:** 2060m. **remarks:** Arching canes to about 2m long. Reddish hairs on canes. Underside of leaves green. Petals pink. Very poor fruit set, large individual drupelets. Perennial. Wild. Seed.
- PI 548929 **donor id:** 14225. **origin:** Ecuador. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Ecuadorian seedlot CRUB 1562. **collector id:** 14225. Perennial. Breeding Material. Plant.
- PI 548930 **donor id:** 14226. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14226. **locality:** Open-disturbed area on right resulting from land clearing-filling operations. Puyo to Ambato road, 5.2km W of Banos, Tungurahua province. **latitude:** 01 deg. 21 min. S. **longitude:** 078 deg. 24 min. W. **elevation:** 2060m. **remarks:** Arching canes over 2m long. Red hairs on canes, especially primocanes. Petals pink. Fruit large, black. Perennial. Wild. Seed.

PI 548931 to 548933. *Rubus urticifolius* Poiret ROSACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548931 to 548933-continued

PI 548931 **donor id:** 14168. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14168. **locality:** Heavily disturbed roadside forest. Old road from Loja to Zamora, 27-42km E of Loja, Zamora/Chinchiipe province. **latitude:** 04 deg. 05 min. S. **longitude:** 078 deg. 58 min. W. **elevation:** 1754-2338m. **remarks:** Canes arching 1.5-3.0m long. Fruit small, black, soft when fully-ripe and subject to postharvest rots. Fruit picks very easily (shatters). Perennial. Wild. Seed.

PI 548932 **donor id:** 14222. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14222. **locality:** Heavily disturbed forest by roadside. Road between Rio Negro and Rio Verde, Tungurahua province. **latitude:** 01 deg. 23 min. S. **longitude:** 078 deg. 13 min. W. **elevation:** 1290-1850m. **remarks:** Arching canes to over 4m long. Canes bristly, red-brown hairs, no glandular hairs. Inflorescence many-flowered, flowers white. Fruit black, very small. Perennial. Wild. Seed.

PI 548933 **donor id:** 14236. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14236. **locality:** Quito-Tanadayapa-Mindo road, approx. 2km NW of Tandayapa, Pichincha province. **latitude:** 00 deg. 02 min. N. **longitude:** 078 deg. 40 min. W. **elevation:** 1785m. **remarks:** Arching canes to over 3m long. White tomentum on underside of leaves. Large, open inflorescences. Flowers white. Fruit black, very small, soft, picks very easily (shatters). Perennial. Wild. Seed.

PI 548934. *Themistoclesia cutucuensis* A. C. Smith

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

donor id: 14215. **origin:** Ecuador. **collected:** November 20, 1990. **collector id:** 14215. **locality:** Heavily disturbed forest with *Cecropia*, *Saurauria*, *Vismia*, and leguminous tree species. Road between Puyo and Mera, Pastaza province. **latitude:** 01 deg. 30 min. S. **longitude:** 078 deg. 05 min. W. **elevation:** 1077-1230m. **remarks:** Epiphyte. Corolla green with red tint. Wild. Plant.

PI 548935 to 548936. *Vaccinium crenatum* (G. Don) Sleumer ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548935 **donor id:** 14134. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14134. **locality:** Shrub paramo with Befaria, Gaultheria, Macleania, Rubus, Vaccinium, Proteaceae and bracken fern. Paramo de Tinajilas, approx. 64.7km S of Cuenca, along road to Loja, Azuay province. **latitude:** 03 deg. 17 min. S. **longitude:** 079 deg. 10 min. W. **elevation:** 3323m. **remarks:** Prostrate shrublet. Corolla red. Berry dark blue-black. Locally common. Perennial. Wild. Seed.

PI 548936 **donor id:** 14171. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14171. **locality:** Loma de Oro area, approx. 12km N of San Lucas, Loja province. **latitude:** 03 deg. 40 min. S. **longitude:** 079 deg. 15 min. W. **elevation:** 2954-3140m. **remarks:** Prostrate shrublet. Corolla dark red. Berry dark blue-black. Scattered along exposed roadbanks. Perennial. Wild. Seed.

PI 548937 to 548947. *Vaccinium floribundum* H. B. K. ERICACEAE

Donated by: Ballington, J.R., North Carolina State University, Horticultural Science Department, Box 7609, Raleigh, North Carolina, United States; and Luteyn, J.L., The New York Botanical Garden, Bronx, New York, United States; and Thompson, M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. **remarks:** Blueberry and Bramble Explorations in Ecuador, November, 1990, USDA-ARS 59-3K47-0-050. Received December 1990.

PI 548937 **donor id:** 14025. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14025. **locality:** Disturbed shrub subparamo. Maldonado road, 3.0km W of Tufino, Carchi province. **latitude:** 00 deg. 48 min. N. **longitude:** 077 deg. 52 min. W. **elevation:** 3400m. **remarks:** Shrub to 1.5m tall. Flowers white to rose-red. Most plants still mainly in flower. Fruit turning dark blue-black. Plant abundant on site. Visited by several types of bumble bees. Perennial. Wild. Seed.

PI 548937 to 548947-continued

- PI 548938 **donor id:** 14031. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14031. **locality:** Disturbed slopes through the subparamo. Tulean-El Angel road, approx. 9km SW of Pan American Hwy, Carchi province. **latitude:** 00 deg. 48 min. N. **longitude:** 077 deg. 48 min. W. **elevation:** 3385m. **remarks:** Shrub, 1.0-1.5m tall. Leaves glaucous, young growth reddish, very attractive. Corollas white to rose-red, most plants mainly flowering. Mature fruit glaucous blue-black. Locally common. Perennial. Wild. Seed.
- PI 548939 **donor id:** 14036. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14036. **locality:** Shrub paramo, burned within the last 18 months. Road to Laguna San Marcos, approx. 13km E of Olmedo, Sucumbios province. **latitude:** 00 deg. 07 min. N. **longitude:** 077 deg. 52 min. W. **elevation:** 3570m. **remarks:** Shrub to 1.5m tall. Corolla white to rose-red. Berry blue-black, glaucous, to 9.5mm dia., abundant ripe fruit. Plants locally abundant. Perennial. Wild. Seed.
- PI 548940 **donor id:** 14041. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14041. **locality:** Paramo vegetation in outwash area and cloud forest along lake. Outwash area just E of Laguma San Marcos and N slope along lake, Sucumbios province. **latitude:** 00 deg. 07 min. N. **longitude:** 077 deg. 52 min. W. **elevation:** 3477m. **remarks:** Shrub to 2m tall. Leaves quite glaucous. Corolla rose-red. Berry blue-black, glaucous. Plants highly ornamental. Mostly flowering at this time, with only occasional ripe fruits. Common in the outwash area. Perennial. Wild. Seed.
- PI 548941 **donor id:** 14085. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14085. **locality:** Disturbed montane forest and subparamo ecotonal vegetation. IETEL towers side road, about 10km from the Otavalo - Selva Alegre road, Imbabura province. **latitude:** 00 deg. 16 min. N. **longitude:** 078 deg. 19 min. W. **elevation:** 3446m. **remarks:** Shrub to 1 m tall. Flowers rose-red. Berry blue-black and glaucous. Mostly still flowering. Occasional. Perennial. Wild. Seed.

PI 548937 to 548947-continued

- PI 548942 **donor id:** 14091. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 09, 1990. **collector id:** 14091. **locality:** Cultivated Pinus radiata forest (3440m) and paramo (3820m) on slopes of vulcan Cotopaxi, Cotopaxi National Park, Cotopaxi province. **latitude:** 00 deg. 40 min. S. **longitude:** 078 deg. 25 min. W. **elevation:** 3440-3820m. **remarks:** Terrestrial shrub to 1.5m tall. Corolla white to dark rose-red. Fruits green. Plants mostly flowering. Quite abundant, both as an understory under P. radiata and at the upper slope paramo location. Plants especially impressive for adaptation and survival on the paramo. Perennial. Wild. Pollen.
- PI 548943 **donor id:** 14135. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14135. **locality:** Shrub paramo with Befaria, Gaultheria, Macleania, Rubus, Vaccinium, Proteaceae and bracken fern. Paramo de Tinajillas, approx. 64.7km S of Cuenca, along road to Loja, Azuay province. **latitude:** 03 deg. 17 min. S. **longitude:** 079 deg. 10 min. W. **elevation:** 3323m. **remarks:** Terrestrial shrub, variable in habit, up to 1 m tall, but often low and spreading. Corolla pink and white. Scattered ripe fruit, blue-black and glaucous. Abundant. An extremely interesting population. Perennial. Wild. Seed.
- PI 548944 **donor id:** 14173. **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **collector id:** 14173. **locality:** Loma de Oro area, approximately 12km N of San Lucas, Loja province. **latitude:** 03 deg. 40 min. S. **longitude:** 079 deg. 15 min. W. **elevation:** 2954-3140m. **remarks:** Shrub to 1 m tall. Corolla white to pink, mostly flowering now. Berry blue-black, glaucous. Common. Perennial. Wild. Seed.
- PI 548945 **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **locality:** Corazon region. Perennial. Wild. Seed.
- PI 548946 **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **locality:** Ambato area. Perennial. Wild. Seed.
- PI 548947 **origin:** Ecuador. **pedigree:** Collected from the wild in Ecuador. **collected:** November 1990. **locality:** Ibarra area. Perennial. Wild. Seed.

PI 548948 to 548963. *Juniperus virginiana* L. CUPRESSACEAE Juniper

Donated by: Hamer, D., Cape May Plant Material Center,, USDA-SCS, Cape May Court House, Cape May, New Jersey, United States. **remarks:** Received through NPMC, Beltsville, MD. Received January 10, 1991.

PI 548948 **origin:** United States. **other id:** 9047102. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548949 **origin:** United States. **other id:** 9047101. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548950 **origin:** United States. **other id:** 9047098. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548951 **origin:** United States. **other id:** 9047097. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548948 to 548963-continued

- PI 548952 **origin:** United States. **other id:** 9047096. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.
- PI 548953 **origin:** United States. **other id:** 9047095. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.
- PI 548954 **origin:** United States. **other id:** 9047093. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.
- PI 548955 **origin:** United States. **other id:** 9047091. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548948 to 548963-continued

- PI 548956 **origin:** United States. **other id:** 9047090. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.
- PI 548957 **origin:** United States. **other id:** 9047089. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.
- PI 548958 **origin:** United States. **other id:** 9047088. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.
- PI 548959 **origin:** United States. **other id:** 9047087. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branchers, narrow, conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnonporangium* spp.). Useful in wind barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548948 to 548963-continued

PI 548960 **origin:** United States. **other id:** 9047100. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branches, narrow conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnosporangium* spp.). Useful in barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548961 **origin:** United States. **other id:** 9047099. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branches, narrow conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnosporangium* spp.). Useful in barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548962 **origin:** United States. **other id:** 9047094. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branches, narrow conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnosporangium* spp.). Useful in barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548963 **origin:** United States. **other id:** 9047092. **locality:** Cape May County, New Jersey. **remarks:** Tree height 6-12m, ascending branches, narrow conical appearance. Evergreen leaves dark green in summer, reddish brown in winter. Fruits berry-like cone, bluish or purplish, 0.6cm diameter. Flowers pistillate. Alternate host for cedar-apple rust (*Gymnosporangium* spp.). Useful in barriers, in restoration of back-dune areas, landscaping and wildlife food and habitat. Adapted for Atlantic coastal. Perennial. Cultivated. Seed.

PI 548964 to 548966. *Myrica pensylvanica* Lois. MYRICACEAE Bayberry

Donated by: Hamer, D., Cape May Plant Material Center,, USDA-SCS, Cape May Court House, Cape May, New Jersey, United States. **remarks:** Received through NPMC, Beltsville, MD. Received January 10, 1991.

PI 548964 to 548966-continued

- PI 548964 **origin:** United States. **other id:** 9002768. **locality:** Avalon, Cape May County, New Jersey. **remarks:** Salt tolerant, upright shrub found on back dune areas along the mid-Atlantic coast, with multiple stemmed trunks, forming dense stands. Plant height range: 1.2-2.5m. Leaves dark green and aromatic. Male and female flowers on different plants, occurring in early spring. Berries, hard, wax coated, gray-blue produced in fall, 3.5-4.5mm diameter remain on tree all winter. Roots contain nitrogen producing. Perennial. Cultivated. Seed.
- PI 548965 **origin:** United States. **other id:** 9007613. **locality:** Sea Isle City, Cape May County, New Jersey. **remarks:** Salt tolerant, upright shrub found on back dune areas along the mid-Atlantic coast, with multiple stemmed trunks, forming dense stands. Plant height range: 1.2-2.5m. Leaves dark green and aromatic. Male and female flowers on different plants, occurring in early spring. Berries, hard, wax coated, gray-blue produced in fall, 3.5-4.5mm diameter remain on tree all winter. Roots contain nitrogen producing. Perennial. Cultivated. Seed.
- PI 548966 **origin:** United States. **other id:** 9012008. **locality:** Fort Macon State Park, Carteret County, North Carolina. **remarks:** Salt tolerant, upright shrub found on back dune areas along the mid-Atlantic coast, with multiple stemmed trunks, forming dense stands. Plant height range: 1.2-2.5m. Leaves dark green and aromatic. Male and female flowers on different plants, occurring in early spring. Berries, hard wax coated, gray-blue produced in fall, 3.5-4.5mm diameter remain on tree all winter. Roots contain nitrogen producing. Perennial. Cultivated. Seed.

PI 548967. *Cucurbita moschata* (Duchesne) Poiret CUCURBITACEAE Squash

Donated by: Busutil, W.R., Maria Adorata, Palm Str., Paola, Malta.
Received May 22, 1990.

origin: Malta. **other id:** BE-2915. **remarks:** Local type. Mixed with seeds of *Cucurbita pepo*. Seeds large. Annual. Cultivated. Seed.

PI 548968. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by: Talukdar, B.S., ICRISAT, Patancheru P.O., Andhra Pradesh, India. **remarks:** ICMS 7703 Pearl Millet. Received March 20, 1991.

PI 548968-continued

origin: India. **origin institute:** ICRISAT, Cereals Program, Patancheru P.O. 502 324. **cultivar:** ICMS 7703. **pedigree:** Intermating of 7 downy mildew resistant inbred lines derived from crosses: (Souna D2/Ex Bornu)-2, (J25-1/700515-9)-2-3, (B282/J804)-1-3, (J25-1/700797)-5-3, (J260-1/700557-1)-4-9, (J1798/700594)-2 and (700250/Ex Bornu)-6. **other id:** CV-3. **source:** Crop Sci. 31(5):1381 1991. **group:** CSR-MILLET, PEARL. **remarks:** Plants 195-215cm tall, with 3-5 tillers. Maturity 85-90 days. Days to flowering 48-50. Anthers mixed cream and purple. Heads compact, short bristled, cylindrical, medium long (23-27cm), with straw colored glumes. Seed weight 6-9g per 1000. Seed obovate, shiny slate-grey. Resistance to downy mildew (*Sclerospora graminicola*). Annual. Cultivar. Seed.

PI 548969 to 548973. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hinson, K., USDA/ARS, University of Florida, IFAS Bldg. 63, Gainesville, Florida, United States. Received March 27, 1991.

PI 548969 **origin:** United States. **origin institute:** Rio Farms, Inc., Route 1, Edcouch, Texas 78538. **cultivar:** Alamo. **pedigree:** D49-2491 x PI 240664 D49-2491 is closely related and very similar to 'Lee'. PI 240664 is an introduction from the Philippines. **other id:** F67-5132. **other id:** CV-129. **source:** Crop Sci. 19(5):748 1979. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548970 **origin:** United States. **origin institute:** Florida Agr. Exp. Stn., Gainesville, Florida 32611. **cultivar:** Foster. **pedigree:** Centennial x [Forrest x (Cobb x D68-216)]. **other id:** F76-8827. Annual. Cultivar. Seed.

PI 548971 **origin:** United States. **origin institute:** Florida Agr. Exp. Stn., Gainesville, Florida 32611. **cultivar:** Howard. **pedigree:** Bedford x Kirby. **other id:** F83-1918. Annual. Cultivar. Seed.

PI 548972 **origin:** United States. **origin institute:** Florida Agr. Exp. Stn., Gainesville, Florida 32611. **cultivar:** Jupiter. **pedigree:** F6 plant selection from D49-2491 x Bilomi No. 3 D49-2491 is closely related and nearly identical to 'Lee' Bilomi No. 3 is PI 240664, an introduction from the Philippines. **other id:** F62-3977. **other id:** CV-99. **source:** Crop Sci. 13(5):582 1973. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548969 to 548973-continued

PI 548973 **origin:** United States. **origin institute:** Rio Farms, Inc., Route 1, Edcouch, Texas 78538. **cultivar:** Jupiter-R. **pedigree:** A composite of 7 F15 lines representing the major type of 'Jupiter'. **other id:** CV-160. **source:** Crop Sci. 22(6):1263 1982. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548974 to 548984. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, E.E., Agricultural Research Service -- USDA, Soybean Production Research, P.O. Box 196, Stoneville, Mississippi, United States. Received March 13, 1991.

PI 548974 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Delta Branch, P.O. Box 196, Stoneville, Mississippi 38776. **cultivar:** Bedford. **pedigree:** Forrest(2) x (D68-18 x PI 88788). **other id:** J74-46. **other id:** CV-118. **source:** Crop Sci. 18(5):915 1978. **group:** CSR-SOYBEAN. **other id:** PVP 7900078. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 548975 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Delta Branch, P.O. Box 196, Stoneville, Mississippi 38776. **cultivar:** Centennial. **pedigree:** D64-4636 x a tawney pubescent 'Pickett 71' type D64-4636 is from Hill x (D49-2491(4) x Jackson). **other id:** D70-3185. **other id:** CV-114. **source:** Crop Sci. 17(6):979 1977. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548976 **origin:** United States. **origin institute:** Mississippi Agr. For. Exp. Stn., Delta Branch, P.O. Box 196, Stoneville, Mississippi 38766. **cultivar:** Dyer. **pedigree:** F5 selection from Hill x (Lee(2) x Peking). **other id:** D63-7320. **other id:** CV-69. **source:** Crop Sci. 8(3):402 1968. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548977 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Delta Branch, P.O. Box 196, Stoneville, Mississippi 38776. **cultivar:** Epps. **pedigree:** [Pickett 71(2) x (Dare(2) x PI 96983)] x J74-47 J74-47 from Forrest(2) x (D68-18 x PI 88788). **other id:** D77-5090. **other id:** PVP 8500029. **source:** Certificate in force. **group:** PVPO. **other id:** CV-176. **source:** Crop Sci. 24(5):998 1984. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548974 to 548984-continued

- PI 548978 **origin:** United States. **origin institute:** Texas Agr. Exp. Stn., Lubbock, Texas 79401. **cultivar:** Gail. **other id:** D70-7583. **other id:** CV-128. **source:** Crop Sci. 19(5):747 1979. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.
- PI 548979 **origin:** United States. **origin institute:** USDA/ARS, Mississippi Agr. For. Exp. Stn, Delta Branch, P.O. Box 196, Stoneville, Mississippi 38776. **cultivar:** Govan. **pedigree:** Bragg x Semmes. **other id:** D66-8666. **other id:** CV-117. **source:** Crop Sci. 18(5):914 1978. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.
- PI 548980 **origin:** United States. **origin institute:** Mississippi Agr. For. Exp. Stn., Delta Branch, P.O. Box 196, Stoneville, Mississippi 38776. **cultivar:** Hood. **pedigree:** Roanoke x N45-745 N45-745 is from Ogden x CNS. **other id:** D51-4888. **other id:** CV-30. **source:** Agron. J. 52(11):659 1960. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.
- PI 548981 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Delta Branch, P.O. Box 196, Stoneville, Mississippi 38776. **cultivar:** Leflore. **pedigree:** Cenbtennial x J74-47 J74-47 is from Forrest(2) x (D68-18 x PI 88788) This line is closely related to 'Bedford'. **other id:** D77-6166. **other id:** PVP 8500074. **source:** Certificate in force. **group:** PVPO. **other id:** CV-186. **source:** Crop Sci. 25(6):1128 1985. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.
- PI 548982 **origin:** United States. **origin institute:** USDA & Mississippi Agr. For. Exp. Stn., Delta Branch, P.O. Box 196, Stoneville, Mississippi 38776. **cultivar:** Pickett 71. **pedigree:** 'Pickett' x pytophthora resistant 'Lee' type. **other id:** D68-B4. **other id:** CV-87. **source:** Crop Sci. 11(4):603 1971. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.
- PI 548983 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Delta Branch, P.O. Box 196, Stoneville, Mississippi 38776. **cultivar:** Tracy. **pedigree:** D61-618 x D60-9647 D61-618 from Hill(2) x PI 171442 D60-9647 from FC 31745 x D49-2510. D49-2510 is a sister line of 'Lee'. **other id:** D67-4601. **other id:** PVP 7400062. **source:** Certificate in force. **group:** PVPO. **other id:** CV-105. **source:** Crop Sci. 14(5):777 1974. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548974 to 548984-continued

PI 548984 **origin:** United States. **origin institute:** USDA and Mississippi Agr. For. Exp. Stn., Delta Branch, P.O. Box 196, Stoneville, Mississippi 38776. **cultivar:** Tracy-M. **pedigree:** F12 selection from 'Tracy'. **other id:** Tracy-1023. **other id:** CV-143. **source:** Crop Sci. 20(6):825 1980. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548985. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Shipe, E.R., Clemson University, Department of Agronomy and Soils, Clemson, South Carolina, United States. Received March 13, 1991.

origin: United States. **origin institute:** South Carolina Agr. Exp. Stn., Clemson, South Carolina 29631. **cultivar:** Kershaw. **pedigree:** F5 plant selection from Davis x Hale 3. **other id:** SC75-614. **other id:** CV-191. **source:** Crop Sci. 26(3):648 1986. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548986 to 548989. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Burton, J.W., USDA/ARS, North Carolina State University, 3127 Ligon St., Raleigh, North Carolina, United States. Received March 27, 1991.

PI 548986 **origin:** United States. **origin institute:** North Carolina Agr. Expt. Sta., Raleigh, North Carolina 27695. **cultivar:** Brim. **pedigree:** Young x N73-1102 N73-1102 is from Tracy x Ransom. **other id:** N82-1198. **other id:** PVP 9100195. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 548987 **origin:** United States. **origin institute:** North Carolina Agr. Exp. Stn., Raleigh, North Carolina 27695. **cultivar:** Dare. **pedigree:** Hill x D52-810 D52-810 is from N48-1101 N48-1101 is from Roanoke x Ogden. **other id:** N59-6972. **other id:** CV-50. **source:** Crop Sci. 6(1):95 1966. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548988 **origin:** United States. **origin institute:** USDA and North Carolina Agr. Exp. Stn., Raleigh, North Carolina 27695. **cultivar:** Pickett. **pedigree:** (D49-2491(6) x Dorman) x (Lee(4) x Peking). **other id:** NCl-2-2. **other id:** CV-52. **source:** Crop Sci. 6(3):305 1966. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548986 to 548989-continued

PI 548989 **origin:** United States. **origin institute:** USDA & North Carolina Agr. Exp. Stn., Raleigh, North Carolina 27607. **cultivar:** Ransom. **pedigree:** (N55-5931 x N55-3818) x D56-1185 N55-3818 from (N45-2994 x x Ogden) x (N44-92 x N48-1867). N45-2994: Ral soy x Ogden; N44-92: Haberlandt x Ogden; N48-1867: Roanoke x N45-745 (Ogden x CNS); N55-5931: Roanoke x D49-2491. (cont. in narr). **other id:** N64-2430. **other id:** CV-95. **source:** Crop Sci. 13(1):130 1973. **group:** CSR-SOYBEAN. **remarks:** D56-1185 from Perry x Lee. Annual. Cultivar. Seed.

PI 548990. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Edwards, L.H., Oklahoma State University, Department of Agronomy, Stillwater, Oklahoma, United States. Received April 02, 1991.

origin: United States. **origin institute:** Oklahoma Agr. Exp. Stn., Department of Agronomy, Oklahoma State University, Stillwater, Oklahoma 74078. **cultivar:** Sohoma. **pedigree:** Davis x Lee 68. **other id:** R68-208. **other id:** CV-167. **source:** Crop Sci. 23(3):598 1983. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548991. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Allen, F.L., University of Tennessee, Department of Plant and Soil Science, P.O. Box 1071, Knoxville, Tennessee, United States. Received April 02, 1991.

origin: United States. **origin institute:** Tennessee Agr. Exp. Stn., University of Tennessee, Knoxville, Tennessee 37901. **cultivar:** TN 5-85. **pedigree:** D68-127 x Essex D68-127 is from the same F3 line as Forest. **other id:** TN77-111. **other id:** CV-192. **source:** Crop Sci. 26(3):649 1986. **group:** CSR-SOYBEAN. Annual. Cultivar. Seed.

PI 548992 to 548993. Triticum durum Desf. POACEAE Durum wheat

Donated by: Bockelman, H.E., USDA-ARS, National Small Grains Collection, Aberdeen, Idaho, United States. Received April 08, 1991.

PI 548992 **origin:** United States. **origin institute:** USDA-ARS, National Small Grains Collection, Aberdeen, Idaho. **pedigree:** Selection from PI 174716. **remarks:** Unique type from PI 174616. Awnless. Glume black. Annual. Cultivated. Seed.

PI 548992 to 548993-continued

PI 548993 **origin:** United States. **origin institute:** USDA-ARS, National Small Grains Collection, Aberdeen, Idaho. **pedigree:** Selection from PI 178048. **collected:** 1948. **other id:** No. 4470. **remarks:** Unique type from PI 178048. Head clavate. Awn black. Glume white, black-marked, glabrous. Annual. Cultivated. Seed.

PI 548994. *Mimosa strigillosa* Torrey & A. Gray FABACEAE Herbaceous mimosa

Donated by: Douglas, J.L., East Texas Plant Material Center, USDA-SCS, Agricultural Bldg., SFA Station, Nacogdoches, Texas, United States. Received January 30, 1991.

donor id: PMT-4923. **origin:** United States. **collected:** December 17, 1990. **collector id:** PMT-4923. **other id:** 9028136. **locality:** Houston County. **latitude:** 31 deg. 20 min. N. **longitude:** 95 deg. 40 min. W. **elevation:** 164m. **remarks:** Herb with sprawling stems 1-4m, stiff bristle-like emergences. 4-6 pinnae pairs with 10-15 leaflets per pinnae. Flowers pink or purple, globe shaped. Pods 15-20mm long, 10-12mm broad, setulose, with 2-4 joints. Potential use in revegetation of surface mined lands, stabilizing of critical eroding areas, roadways where mowing is a problem. Adapted to southeast US where rainfall is less than 0.27m. Perennial. Cultivated. Seed.

PI 548995 to 549016. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Beard, B.H., USDA-ARS, Agronomy & Range Science, University of California, Davis, California, United States. **remarks:** These are the 22 individual lines that were composited into Sunflower GP-9, GERMPLASM POOL III. (Crop Sci. 22(6):1276 1982.). Received 1982.

PI 548995 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-A. Annual. Breeding Material. Seed.

PI 548996 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-B. Annual. Breeding Material. Seed.

PI 548997 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-C. Annual. Breeding Material. Seed.

PI 548995 to 549016-continued

- PI 548998 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-D. Annual. Breeding Material. Seed.
- PI 548999 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-E. Annual. Breeding Material. Seed.
- PI 549000 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-F. Annual. Breeding Material. Seed.
- PI 549001 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-G. Annual. Breeding Material. Seed.
- PI 549002 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-H. Annual. Breeding Material. Seed.
- PI 549003 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-I. Annual. Breeding Material. Seed.
- PI 549004 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-J. Annual. Breeding Material. Seed.
- PI 549005 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-K. Annual. Breeding Material. Seed.
- PI 549006 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-L. Annual. Breeding Material. Seed.
- PI 549007 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-M. Annual. Breeding Material. Seed.

PI 548995 to 549016-continued

- PI 549008 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-N. Annual. Breeding Material. Seed.
- PI 549009 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-O. Annual. Breeding Material. Seed.
- PI 549010 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-P. Annual. Breeding Material. Seed.
- PI 549011 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-Q. Annual. Breeding Material. Seed.
- PI 549012 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-R. Annual. Breeding Material. Seed.
- PI 549013 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-S. Annual. Breeding Material. Seed.
- PI 549014 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-T. Annual. Breeding Material. Seed.
- PI 549015 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-U. Annual. Breeding Material. Seed.
- PI 549016 **origin:** United States. **origin institute:** USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616. **cultivar:** HA GERMPLASM POOL III-V. Annual. Breeding Material. Seed.

PI 549017 to 549031. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Institute of Crop Germplasm Resources, Chinese Academy of Agricultural Sciences, Beijing, China. Received April 1990.

PI 549017 to 549031-continued

- PI 549017 **origin:** China. **cultivar:** ZYDO 3938. **locality:** Ningxia, Shaanxi Province. Annual. Cultivated. Seed.
- PI 549018 **origin:** China. **cultivar:** ZYDO 3939. **locality:** Ningxia, Shaanxi Province. Annual. Cultivated. Seed.
- PI 549019 **origin:** China. **cultivar:** ZYDO 3940. **locality:** Ningxia, Shaanxi Province. Annual. Cultivated. Seed.
- PI 549020 **origin:** China. **cultivar:** Lu cha dou. Annual. Cultivated. Seed.
- PI 549021 **origin:** China. **cultivar:** Na hei dou. Annual. Cultivated. Seed.
- PI 549022 **origin:** China. **cultivar:** Qing rang wu dou. **locality:** Dandong, Liaoning Province. Annual. Cultivated. Seed.
- PI 549023 **origin:** China. **cultivar:** Na xiao lu dou. **locality:** Dandong, Liaoning Province. Annual. Cultivated. Seed.
- PI 549024 **origin:** China. **cultivar:** Na hong dou. Annual. Cultivated. Seed.
- PI 549025 **origin:** China. **cultivar:** Da tu huang. **locality:** Dangdong, Liaoning Province. Annual. Cultivated. Seed.
- PI 549026 **origin:** China. **cultivar:** Gao li huang. **locality:** Dangdong, Liaoning Province. Annual. Cultivated. Seed.
- PI 549027 **origin:** China. **cultivar:** Tian er dan. **locality:** Dangdong, Liaoning Province. Annual. Cultivated. Seed.
- PI 549028 **origin:** China. **cultivar:** Feng da li. **locality:** Dangdong, Liaoning Province. Annual. Cultivated. Seed.
- PI 549029 **origin:** China. **cultivar:** Feng cheng da jing huan. **locality:** Dangdong, Liaoning Province. Annual. Cultivated. Seed.
- PI 549030 **origin:** China. **locality:** Changping, Beijing Province. Annual. Cultivated. Seed.
- PI 549031 **origin:** China. **locality:** Changping, Beijing Province. Annual. Cultivated. Seed.

PI 549032 to 549048. *Glycine soja* Siebold & Zucc. FABACEAE Soybean

Donated by: Institute of Crop Germplasm Resources, Chinese Academy of Agricultural Sciences, Beijing, China. Received April 1990.

PI 549032 to 549048-continued

- PI 549032 **origin:** China. **cultivar:** ZYDO 2632. **locality:** Fengcheng, Liaoning Province. Annual. Cultivated. Seed.
- PI 549033 **origin:** China. **cultivar:** ZYDO 2643. **locality:** Fengcheng, Liaoning Province. Annual. Cultivated. Seed.
- PI 549034 **origin:** China. **cultivar:** ZYDO 2648. **locality:** Fengcheng, Liaoning Province. Annual. Cultivated. Seed.
- PI 549035 **origin:** China. **cultivar:** ZYDO 2661. **locality:** Fengcheng, Liaoning Province. Annual. Cultivated. Seed.
- PI 549036 **origin:** China. **cultivar:** ZYDO 2664. **locality:** Fengcheng, Liaoning Province. Annual. Cultivated. Seed.
- PI 549037 **origin:** China. **cultivar:** ZYDO 2666. **locality:** Fengcheng, Liaoning Province. Annual. Cultivated. Seed.
- PI 549038 **origin:** China. **cultivar:** ZYDO 2679. **locality:** Hengren, Liaoning Province. Annual. Cultivated. Seed.
- PI 549039 **origin:** China. **cultivar:** ZYDO 2700. **locality:** Kuandian, Liaoning Province. Annual. Cultivated. Seed.
- PI 549040 **origin:** China. **cultivar:** ZYDO 2704. **locality:** Fengcheng, Liaoning Province. Annual. Cultivated. Seed.
- PI 549041 **origin:** China. **cultivar:** ZYDO 2709. **locality:** Donggou, Liaoning Province. Annual. Cultivated. Seed.
- PI 549042 **origin:** China. **cultivar:** ZYDO 2711. **locality:** Donggou, Liaoning Province. Annual. Cultivated. Seed.
- PI 549043 **origin:** China. **cultivar:** ZYDO 2714. **locality:** Hengren, Liaoning Province. Annual. Cultivated. Seed.
- PI 549044 **origin:** China. **cultivar:** ZYDO 2717. **locality:** Hengren, Liaoning Province. Annual. Cultivated. Seed.
- PI 549045 **origin:** China. **cultivar:** ZYDO 3721. **locality:** Huanglong, Shannxi Province. Annual. Cultivated. Seed.
- PI 549046 **origin:** China. **cultivar:** ZYDO 3728. **locality:** Ningxia, Shannxi Province. Annual. Cultivated. Seed.

PI 549032 to 549048-continued

PI 549047 **origin:** China. **locality:** Wangre Shan, Beijing Province.
Annual. Cultivated. Seed.

PI 549048 **origin:** China. **locality:** Changping, Beijing Province.
Annual. Cultivated. Seed.

PI 549049 to 549053. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Vavilov Institute, 44 Herzen Street, Leningrad, USSR.
Received April 1990.

PI 549049 **donor id:** VIR-8184. **origin:** USSR. **cultivar:**
Primorskaja. **collected:** 1915. **locality:** Primorskaya
Province. Annual. Cultivar. Seed.

PI 549050 **donor id:** VIR-9162. **origin:** USSR. **cultivar:** Avak-33.
collected: 1915. Annual. Cultivar. Seed.

PI 549051 **donor id:** VIR 9163. **origin:** USSR. **cultivar:**
Haborovskaja. **collected:** 1915. Annual. Cultivar.
Seed.

PI 549052 **donor id:** VIR-9178. **origin:** USSR. **cultivar:** Primorskaja
13. **collected:** 1915. **locality:** Primorskaya Province.
Annual. Cultivar. Seed.

PI 549053 **donor id:** VIR-9324. **origin:** USSR. **cultivar:** Mecta.
collected: 1915. **locality:** Primorskaya Province.
Annual. Cultivar. Seed.

PI 549054 to 549072. *Glycine soja* Siebold & Zucc. FABACEAE Soybean

Donated by: Konovsky, J., Washington State University, Department of
Agronomy, Pullman, Washington, United States. Received May 02,
1990.

* PI 549054 *Glycine max* (L.) Merr. FABACEAE Soybean
origin: Japan. **cultivar:** Ao 75. **collected:** 1915.
Annual. Cultivar. Seed.

* PI 549055 *Glycine max* (L.) Merr. FABACEAE Soybean
origin: Japan. **cultivar:** Ezomidori. **collected:** 1915.
Annual. Cultivar. Seed.

* PI 549056 *Glycine max* (L.) Merr. FABACEAE Soybean
origin: Japan. **cultivar:** Fukura. **collected:** 1915.
Annual. Cultivar. Seed.

PI 549054 to 549072-continued

- * PI 549057 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Hakucho. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549058 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Hamanishiki. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549059 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Hidaka. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549060 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Hokuei Shiroge. collected:
1915. Annual. Cultivar. Seed.
- * PI 549061 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Ichiriki. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549062 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: "Just" 75. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549063 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Kaoriotome. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549064 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Karikachi 3. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549065 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Kinshu. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549066 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Kitanosuzu. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549067 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Misono "Green". collected:
1915. Annual. Cultivar. Seed.
- * PI 549068 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Ryokushin. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549069 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Shiro Jishi. collected: 1915.
Annual. Cultivar. Seed.

PI 549054 to 549072-continued

- * PI 549070 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Shirokuma. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549071 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Tamasudake. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549072 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Yukimusume. collected: 1915.
Annual. Cultivar. Seed.

PI 549073 to 549080. Glycine soja Siebold & Zucc. FABACEAE Soybean

Donated by: Mansur, L.M., Iowa State University, Department of
Agronomy, Ames, Iowa, United States. Received May 11, 1990.

- * PI 549073 Glycine max (L.) Merr. FABACEAE Soybean
origin: Japan. cultivar: Heifeng 22. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549074 Glycine max (L.) Merr. FABACEAE Soybean
origin: China. cultivar: Heihe 2. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549075 Glycine max (L.) Merr. FABACEAE Soybean
origin: China. cultivar: Heihe 3. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549076 Glycine max (L.) Merr. FABACEAE Soybean
origin: China. cultivar: Hongfeng 3. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549077 Glycine max (L.) Merr. FABACEAE Soybean
origin: China. cultivar: Jui feng 1. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549078 Glycine max (L.) Merr. FABACEAE Soybean
origin: China. cultivar: Jui feng 2. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549079 Glycine max (L.) Merr. FABACEAE Soybean
origin: China. cultivar: Jui feng 3. collected: 1915.
Annual. Cultivar. Seed.
- * PI 549080 Glycine max (L.) Merr. FABACEAE Soybean
origin: China. cultivar: Jui feng 4. collected: 1915.
Annual. Cultivar. Seed.

PI 549081. *Hordeum vulgare* L. POACEAE Barley

Donated by: Smith, E.L., Department of Agronomy, Oklahoma State University, Stillwater, Oklahoma, United States. Received April 08, 1991.

origin: United States. **origin institute:** Oklahoma Agric. Exp. Station, Oklahoma. **cultivar:** POST 90. **pedigree:** Composite of 105 'Post' progenies. **other id:** OK82850. **remarks:** Short-strawed, 6-row, rough awned with mid- to late-season maturity and uniform height and spike size. Straw quality good. Resistant to prevalent biotypes of greenbug (*Schizaphis graminum*). Exhibits a high tolerance to barley yellow dwarf virus. Some resistance to net blotch (*Pyrenophora teres*), powdery mildew (*Erysiphe graminis* f. sp. *hordei*) and leaf rust (*Puccinia hordei*). Adapted for. Winter Annual. Cultivar. Seed.

PI 549082. *Calliandra calothyrsus* Meissner FABACEAE

Donated by: Kretschmer, A.E., Inst. for Food and Agricultural Sciences, Agricultural Research and Education Ctr., University of Florida, Box 248, Fort Pierce, Florida, United States. Received January 26, 1981.

* *Leucaena* sp. FABACEAE
origin: Indonesia. **other id:** 5240. Annual. Wild. Seed.

PI 549083 to 549084. *Leucaena leucocephala* (Lam.) De Wit FABACEAE
Jumbie bean

Donated by: Kretschmer, A.E., Inst. for Food and Agricultural Sciences, Agricultural Research and Education Ctr., University of Florida, Box 248, Fort Pierce, Florida, United States. Received September 26, 1978.

PI 549083 **origin:** Brazil. **other id:** 3145. **other id:** IRI 2984.
locality: Legume garden, Matao. Annual. Wild. Seed.

PI 549084 **origin:** Costa Rica. **collected:** January 02, 1989. **other id:** 6529. **other id:** AEK-ML 01-2. **locality:** Beach, Resturant Bahia, Samara, Guanacaste. **latitude:** 09 deg. 53 min. N. **longitude:** 85 deg. 32 min. W. **elevation:** 0m. Annual. Wild. Seed.

PI 549085 to 549086. *Leucaena diversifolia* (Schldl.) Benth. FABACEAE

Donated by: Kretschmer, A.E., Inst. for Food and Agricultural Sciences, Agricultural Research and Education Ctr., University of Florida, Box 248, Fort Pierce, Florida, United States. Received September 26, 1978.

PI 549085 **origin:** Mexico. **collected:** February 28, 1985. **other id:** 4328. **other id:** RGK/036C. **locality:** El Cerezel, 12.3km north of El Cerezel road to Tuxtepec Highway 175, 47.9km north of Oaxaca 190 and Tuxtepec Highway 175 intersection. **latitude:** 17 deg. 19 min. N. **longitude:** 96 deg. 30 min. W. **elevation:** 1690m. **remarks:** Esculenta abundant. Insect damage. Annual. Wild. Seed.

PI 549086 **origin:** Mexico. **collected:** February 28, 1985. **other id:** 4330. **other id:** RGK/036E. **locality:** El Cerezel, 12.3km north of El Cerezel road to Tuxtepec Highway 175, 47.9km north of Oaxaca 190 and Tuxtepec Highway 175 intersection. **latitude:** 17 deg. 19 min. N. **longitude:** 96 deg. 30 min. W. **elevation:** 1690m. **remarks:** Insect damage on some but not like *L. cuspidata* (4320). *L. esculenta* growing abundantly. *L. esculenta* abundant. Annual. Wild. Seed.

PI 549087. *Leucaena esculenta* (Mocino & Sesse ex DC.) Benth. FABACEAE

Donated by: Kretschmer, A.E., Inst. for Food and Agricultural Sciences, Agricultural Research and Education Ctr., University of Florida, Box 248, Fort Pierce, Florida, United States. Received September 26, 1978.

origin: Mexico. **collected:** March 09, 1985. **other id:** 4503. **other id:** RGK/093C. **locality:** Chiapas to La Trinitaria 210km road marker, Highway 190, 21km south of La Trinitaria. **latitude:** 15 deg. 57 min. N. **longitude:** 92 deg. 00 min. W. **elevation:** 760m. **remarks:** Growing with *Macroptillum atropurpureum* and *Vigna adenantha*. Annual. Wild. Seed.

PI 549088. *Leucaena* sp. FABACEAE

Donated by: Kretschmer, A.E., Inst. for Food and Agricultural Sciences, Agricultural Research and Education Ctr., University of Florida, Box 248, Fort Pierce, Florida, United States. Received September 26, 1978.

PI 549088-continued

origin: Costa Rica. **collected:** February 06, 1989. **other id:** 6589. **other id:** AEK-ML 06-12B. **locality:** Puntarenas, Puerto Caldera, 0.2km east of Puerto Caldera entrance, at edge of high water mark. **latitude:** 09 deg. 55 min. N. **longitude:** 84 deg. 43 min. W. **elevation:** 25m. **remarks:** Tree height 3-4m. Growing with *Teramnus uncinatus*. Annual. Wild. Seed.

PI 549089. *Phaseolus vulgaris* L. FABACEAE Cranberry bean

Donated by: Myers, J.R., Idaho Agr. Exp. Sta., University of Idaho, Kimberly, Idaho, United States. **remarks:** UI 686 Cranberry bean. Received April 12, 1991.

origin: United States. **origin institute:** Idaho Agr. Exp. Sta., University of Idaho, Kimberly, Idaho 83341. **cultivar:** UI 686. **pedigree:** UI 50/Hi Lo, F7. **other id:** CV-92. **source:** Crop Sci. 31(6):1708 1991. **group:** CSR-OTHER LEGUMES. **other id:** PVP 8900253. **source:** Pending. **group:** PVPO. **remarks:** Average maturity in Idaho 92 days. Seed size larger than most other cranberry beans, 51.1g 100 seed. Seed shape oval. Growth habit upright indeterminate bush. Resistant to the NY-15 and NL-4 races of BCMV but exhibited necrotic tip kill with the NL-3 race of BCMV. Possesses the dominant I gene for resistance to BCMV. Moderately susceptible to susceptible to bean rust race (*Uromyces appendiculatus*) at. Cultivar. Seed.

PI 549090. *Phaseolus vulgaris* L. FABACEAE Kidney bean

Donated by: Myers, J.R., Idaho Agr. Exp. Sta., University of Idaho, Kimberly, Idaho, United States. **remarks:** UI 722 Dark Red Kidney Bean. Received April 12, 1991.

origin: United States. **origin institute:** Idaho Agr. Exp. Sta., University of Idaho, Kimberly, Idaho 83341. **cultivar:** UI 722. **pedigree:** Mecosta//67-105/PI 226856,F7. **other id:** CV-93. **source:** Crop Sci. 31(6):1709 1991. **group:** CSR-OTHER LEGUMES. **other id:** PVP 8900254. **source:** Pending. **group:** PVPO. **remarks:** Average maturity in Idaho 95 days. Seeds larger than other dark red kidneys, 45.9g 100 seed. Seeds darker, true kidney shape. Growth habit upright determinate bush. Resistant to the NY-15 and NL-4 races of BCMV, but exhibited necrotic tip kill with the NL-3 race of BCMV. Possesses the I gene for resistance to BCMV. Susceptible with slow rusting reaction to bean rust races at Beltsville, MD and Saginaw,. Cultivar. Seed.

PI 549091. *Phaseolus vulgaris* L. FABACEAE Black bean

Donated by: Myers, J.R., Idaho Agr. Exp. Sta., University of Idaho, Kimberly, Idaho, United States. **remarks:** UI 906 Black Bean. Received April 12, 1991.

origin: United States. **origin institute:** Idaho Agr. Exp. Sta., University of Idaho, Kimberly, Idaho 83341. **cultivar:** UI 906. **pedigree:** Midnight/07055 F3, F6. **other id:** CV-94. **source:** Crop Sci. 31(6):1710 1991. **group:** CSR-OTHER LEGUMES. **other id:** PVP 8900255. **source:** Pending. **group:** PVPO. **remarks:** Maturity ranges from 78 -114 days. Seed smaller than other dark black bean cultivars, 17.3g 100 seed-1. Seed coat dull luster. Particularly well-suited to short growing seasons found in the Pacific Northwest, North Central States, and Central Canada. Growth habit upright short vine (Type IIA). Resistant to NY-15 and NL-4 races of BCMV but exhibited necrotic tip kill when inoculated with the NL-5 and NL-8. Cultivar. Seed.

PI 549092. *Trifolium medium* L. FABACEAE Zigzag clover

Donated by: Christie, B.R., Charlottetown Res. Sta., Agriculture Canada, Prince Edward Island, Canada. **remarks:** CRS-Z-1 Zigzag Clover Germplasm. Received April 12, 1991.

origin: Canada. **origin institute:** Charlottetown Research Station, Agriculture Canada, Prince Edward Island ClA 7M8. **cultivar:** CRS-Z-1. **pedigree:** Inter-pollination of F1 plants obtained by hybridization of two local strains. **other id:** GP-97. **source:** Crop Sci. 31(6):1716 1991. **group:** CSR-OTHER LEGUMES. **remarks:** Very winterhardy and persistent. Breeding Material. Seed.

PI 549093. *Ipomoea cynanchifolia* Meissner CONVOLVULACEAE Potato

Donated by: International Potato Center, Lima, Peru. Received April 01, 1991.

donor id: CIP #460149. **origin:** Peru. Annual. Wild. Seed.

PI 549094. *Panicum virgatum* L. POACEAE Switchgrass

Donated by: Vogel, K.P., Agricultural Research Service -- USDA, University of Nebraska, Lincoln, Nebraska, United States; and Nebraska Agr. Exp. Sta.. **remarks:** Trailblazer Switchgrass. Received 1984.

PI 549094-continued

origin: United States. **origin institute:** Agricultural Research Service -- USDA, University of Nebraska, Lincoln, Nebraska 68583. **cultivar:** TRAILBLAZER. **pedigree:** 25-clone synthetic. **other id:** CV-146. **source:** Crop Sci. 31(5):1388 1991. **group:** CSR-OTHER GRASSES. **remarks:** Similar to Pathfinder in maturity, appearance, and area of adaptation which is central Great Plains and western Corn Belt. The 6% improvement in IVDMD in comparison to Pathfinder resulted in a 23% improvement in beef production per ha. Cultivar. Seed.

PI 549095. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: J & S Research Company, United States. Received April 11, 1991.

origin: United States. **origin institute:** J & S Research Company. **cultivar:** HS SALCOT 10. **other id:** PVP 9100145. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549096. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Ag Tech, Inc., United States. Received April 11, 1991.

origin: United States. **origin institute:** Ag Tech, Inc.. **cultivar:** MAGIC. **other id:** PVP 9100146. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549097. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Peterson, M.A., W-L Research, Inc., 8701 Highway 14, Evansville, Wisconsin, United States. **remarks:** WL 322 HQ Alfalfa. Received April 11, 1991.

origin: United States. **origin institute:** W-L Research, Inc., 8701 Highway 14, Evansville, Wisconsin 53536-9593. **cultivar:** WL 322 HQ. **pedigree:** Synthetic composed of 147 plants. **other id:** PVP 9100147. **source:** Pending. **group:** PVPO. **other id:** CV-170. **source:** Crop Sci. 31(6):1699 1991. **group:** CSR-ALFALFA. **remarks:** Moderately fall-dormant variety adapted to forage use in northwestern, midwestern, and northeastern regions of the U.S. Flower color approx. 95% purple to dark purple and about 5% blue and blue variegated with a trace of cream. High resistance to bacterial wilt, fusarium wilt, pea aphid (*Acyrtosiphon pisum*), and spotted alfalfa aphid (*Therioaphis maculata*). Resistance to verticillium wilt,. Perennial. Cultivar. Seed.

PI 549098. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Southern States Cooperative, Inc., United States.
Received April 11, 1991.

origin: United States. **origin institute:** Southern States Cooperative, Inc.. **cultivar:** SS 390. **other id:** PVP 9100148. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549099. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Southern States Cooperative, Inc., United States.
Received April 11, 1991.

origin: United States. **origin institute:** Southern States Cooperative, Inc.. **cultivar:** SS 516. **other id:** PVP 9100149. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549100. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Ferry-Morse Seed Company, United States. Received April 11, 1991.

origin: United States. **origin institute:** Ferry-Morse Seed Company. **cultivar:** OVERTURE. **other id:** PVP 9100150. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549101. *Brassica napus* L. BRASSICACEAE Rape

Donated by: E.I. du Pont de Nemours & Company, United States.
Received April 11, 1991.

origin: United States. **origin institute:** E.I. du Pont de Nemours and Company. **cultivar:** IMC129. **other id:** PVP 9100151. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549102. *Brassica napus* L. BRASSICACEAE Rape

Donated by: E.I. du Pont de Nemours & Company, United States.
Received April 11, 1991.

origin: United States. **origin institute:** E.I. du Pont de Nemours and Company. **cultivar:** IMC144. **other id:** PVP 9100152. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549103. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Olsen-Fennell Seeds, Inc., United States. Received April 11, 1991.

origin: United States. **origin institute:** Olsen-Fennell Seeds, Inc.. **cultivar:** F-18. **other id:** PVP 9100153. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549104. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received April 11, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 5252. **other id:** PVP 9100154. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549105. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received April 11, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 5311. **other id:** PVP 9100155. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549106. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received April 11, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 5333. **other id:** PVP 9100156. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549107. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received April 11, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 5715. **other id:** PVP 9100157. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549108. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received April 11, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 5888. **other id:** PVP 9100158. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549109. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Northrup King Company, United States. Received April 11, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** K149. **other id:** PVP 9100159. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549110. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Northrup King Company, United States. Received April 11, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** K346. **other id:** PVP 9100160. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549111. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Ag Tech, Inc., United States; and NK Lawn & Garden Company. Received April 11, 1991.

origin: United States. **origin institute:** Ag Tech, Inc.. **cultivar:** TARGET. **other id:** PVP 9100162. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 549112. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Cianzio, S., Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa, United States; and University of Puerto Rico; and Agricultural Research Service -- USDA. **remarks:** A20 Soybean Germplasm. Received April 15, 1991.

PI 549112-continued

origin: United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011. **cultivar:** A20. **pedigree:** BSR 101/CN210, F3. **other id:** GP-126. **source:** Crop Sci. 31(6):1713 1991. **group:** CSR-SOYBEAN. **remarks:** Maturity Group I. Flowers purple. Pubescence gray. Pods tan at maturity. Seeds shiny yellow with buff hila. Seed yield 2540 kg ha-1. Lodging resistance good. Plant height 86cm. Seed weight 166 mg seed-1. Seed protein 334g kg-1. Seed oil 179g kg-1. Seed quality good. Moderate resistance to Fe-deficiency chlorosis on calcareous soil. Resistance to brown stem rot (*Phialophora gregate*) and soybean cyst. Annual. Breeding Material. Seed.

PI 549113. *Avena sativa* L. POACEAE Common oat

Donated by: Bruckner, P.L., Georgia Agr. Exp. Sta., University of Georgia, Tifton, Georgia, United States. **remarks:** GA-Mitchell Oat. Received April 15, 1991.

origin: United States. **origin institute:** Georgia Agr. Exp. Sta, University of Georgia, Tifton, Georgia 31793. **cultivar:** GA-MITCHELL. **pedigree:** Coker 234/CMB-3/3/Coker 70-12/Coker 70-14//NC 2469-2. **other id:** CV-335. **source:** Crop Sci. 31(6):1707 1991. **group:** CSR-OAT. **remarks:** High-yielding. Maturity medium. Semi-dwarf with stiff straw. Lodging resistance excellent. Moderately resistant to *Puccinia coronada*. Moderately susceptible to barley yellow dwarf virus, *Erysiphe graminis* and *P. graminis*. Low vernalization requirement. Cold tolerance low. Winter Annual. Cultivar. Seed.

PI 549114. *Oryza sativa* L. POACEAE Rice

Donated by: Moldenhauer, K.A.K., Arkansas Agr. Exp. Sta., University of Arkansas, Stuttgart, Arkansas, United States; and Agricultural Research Service -- USDA. **remarks:** Orion. Received April 15, 1991.

origin: United States. **origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Stuttgart, Arkansas 72160. **cultivar:** ORION. **pedigree:** Brazos/Mars. **other id:** RU8801121. **other id:** CV-87. **group:** CSR-RICE. **remarks:** Grain medium. Maturity approx. 134 days. Plants 104cm tall, dark green with erect flag leaves. Glabrous lemma, palea, and leaf blades. Grains may have straw to colorless apiculi and occasional tip awns at maturity. Hulls straw colored. Seedcoat light brown. Endosperm nonaromatic, nonglutinous. Milling yields are 64% whole kernel; 71% total milled. Rates 5 for *Rhizoctonia solani*. Spring Annual. Cultivar. Seed.

PI 549115. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Meyer, W.A., Pure-Seed Testing, Inc., 3057 G. Street, Hubbard, Oregon, United States. Received April 15, 1991.

origin: United States. **origin institute:** Pure-Seed Testing, Inc., 3057 G. Street, Hubbard, Oregon 97032. **cultivar:** MAXIMIZE. **pedigree:** Advanced generation synthetic from two cycles of recurrent selection. Parents trace back to ecotypes collected in South-east France. **other id:** PVP 8800123. **source:** Certificate in force. **group:** PVPO. **other id:** FA-293. **remarks:** Leaves soft, flexible producing improved forage quality and palatability. Fast vertical growth. Maturity early. Above average resistance to crown rust (*Puccinia coronata*) and leaf spot (*Helminthosporium dictyoides*). Shown improved forage yields in Wisconsin, Oregon, France and The Netherlands. Perennial. Cultivar. Seed.

PI 549116. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by: Brede, A.D., Jacklin Seed Company, W. 5300 Riverbend Avenue, Post Falls, Idaho, United States; and Lofts Seed, Inc.; and New Jersey Agr. Exp. Sta.. **remarks:** Suffolk Kentucky Bluegrass. Received April 15, 1991.

origin: United States. **origin institute:** Jacklin Seed Company, W. 5300 Riverbend Avenue, Post Falls, Idaho 83854. **cultivar:** SUFFOLK. **pedigree:** NJE P-59/Baron. **other id:** PVP 8800072. **source:** Certificate in force. **group:** PVPO. **other id:** H74-239. **other id:** 239. **remarks:** Highly apomictic turf type. Growth moderately low. Color medium-dark green. Spring greenup and cold weather retention very good. Agressiveness moderate. Texture medium. Excellent resistance to leaf spot (*Drechslera poae*) and red thread (*Laetisarea fuciformis*). Perennial. Cultivar. Seed.

PI 549117. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: ICRISAT, Groundnut Research Unit, Patancheru P.O., Andhra Pradesh, India. Received April 15, 1991.

origin: India. **cultivar:** ICGS 37. **remarks:** Duplicate of PI 550930. Spring Annual. Cultivar. Seed.

PI 549118. *Psathyrostachys juncea* (Fischer) Nevski POACEAE Russian wildrye

Donated by: Asay, K.H., USDA-ARS, Crops Research Laboratory, Utah State University, Logan, Utah, United States. Received April 15, 1991.

origin: United States. **cultivar:** BOZOISKY-SELECT. **other id:** CV-97. **source:** Crop Sci. 25(3):575 1985. **group:** CSR-OTHER GRASSES. Cultivar. Seed.

PI 549119. *Agropyron* hybrid POACEAE

Donated by: Asay, K.H., USDA-ARS, Crops Research Laboratory, Utah State University, Logan, Utah, United States. Received June 1984.

origin: United States. **cultivar:** HYCREST. **pedigree:** A. cristatum/A. desertorum. **other id:** CV-16. **source:** Crop Sci. 25(2):368 1985. **group:** CSR-WHEATGRASS. Cultivar. Seed.

PI 549120 to 549135. *Melilotus albus* Medikus FABACEAE Sweetclover

Donated by: Gorz, H.J., USDA-ARS, Department of Agronomy, University of Nebraska, Lincoln, Nebraska, United States. Received March 01, 1991.

PI 549120 **donor id:** N30. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N30 (yccccucubb), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N30 (yccccucubb) genotype has silver green seed, is low in coumarin content and Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.

PI 549121 **donor id:** N31. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N31 (yccccucuBB), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N31 (yccccucuBB) genotype has silver green seed, is low in coumarin content and high in Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.

PI 549120 to 549135-continued

- PI 549122 **donor id:** N32. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N32 (yyccCuCubb), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N32 (yyccCuCubb) genotype has silver green seed, is high in coumarin content and low in Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.
- PI 549123 **donor id:** N33. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N33 (yyccCuCuBB), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N33 (yyccCuCuBB) genotype has silver green seed, is high in coumarin content and Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.
- PI 549124 **donor id:** N34. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N34 (yyCCcucubb), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N34 (yyCCcucubb) genotype has dark green seed, is low in coumarin and and Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.
- PI 549125 **donor id:** N35. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N35 (yyCCcucuBB), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N35 (yyCCcucuBB) genotype has dark green seed, is low in coumarin and high in Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.

PI 549120 to 549135-continued

- PI 549126 **donor id:** N36. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N36 (yyCCCuCubb), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N36 (yyCCCuCubb) genotype has dark green seed, high in coumarin content and low in Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.
- PI 549127 **donor id:** N37. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N37 (yyCCCuCuBB), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N37 (yyCCCuCuBB) genotype has dark green seed, high in coumarin content and Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.
- PI 549128 **donor id:** N38. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N38 (YYcccucubb), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N38 (YYcccucubb) genotype has light yellow seed, low in coumarin content and Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.
- PI 549129 **donor id:** N39. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N39 (YYcccucuBB), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N39 (YYcccucuBB) genotype has light yellow seed, low in coumarin content and high in Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.

PI 549120 to 549135-continued

- PI 549130 **donor id:** N40. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N40 (YYccCuCubb), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N40 (YYccCuCubb) genotype has light yellow seed, high in coumarin content and low in Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.
- PI 549131 **donor id:** N41. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N41 (YYccCuCuBB), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N41 (YYccCuCuBB) genotype has light yellow seed, high in coumarin content and Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.
- PI 549132 **donor id:** N42. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N42 (YYCCcucubb), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N42 (YYCCcucubb) genotype has medium yellow seed, low in coumarin content and Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.
- PI 549133 **donor id:** N43. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N43 (YYCCcucuBB), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N43 (YYCCcucuBB) genotype has medium yellow seed, low in coumarin content and high in Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.

PI 549120 to 549135-continued

PI 549134 **donor id:** N44. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N44 (YCCCuCubb), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N44 (YCCCuCubb) genotype has medium yellow seed, high in coumarin content and low in Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.

PI 549135 **donor id:** N45. **origin:** United States. **pedigree:** Population derived from annual and biannual sweetclovers with genotype N45 (YCCCuCuBB), which is one of a set of 16 populations representing all possible homozygous combinations of 4 allelic pairs Y/y, C/c, Cu/cu and B/b. **remarks:** Y/y and C/c alleles govern seed color, Cu/cu alleles govern coumarin content, B/b alleles govern Beta-glucosidase activity in sweet clover. N45 (YCCCuCuBB) genotype has medium yellow seed, high in coumarin content and Beta-glucosidase activity. Seed should be scarified before planting. **received as:** M. alba. Annual. Genetic Material. Seed.

PI 549136 to 549151. *Gossypium hirsutum* L. MALVACEAE Upland cotton

Donated by: Richmond, T.R., Agriculture Experiment Station, College Station, Texas, United States. Received March 28, 1946.

PI 549136 **donor id:** G-5A. **origin:** Guatemala. **pedigree:** Selection from PI 153964. **collected:** 1946. **collector id:** G-5A. **other id:** TEX 70. **locality:** Retaehulue. **latitude:** 14 deg. 31 min. N. **longitude:** 91 deg. 40 min. W. Annual. Wild. Seed.

PI 549137 **origin:** Guatemala. **pedigree:** Selection from PI 153964. **collected:** 1946. **other id:** TEX 70A. **locality:** Retaehulue. **latitude:** 14 deg. 31 min. N. **longitude:** 91 deg. 40 min. W. Annual. Wild. Seed.

PI 549138 **donor id:** G-9A. **origin:** Guatemala. **pedigree:** Selection from PI 153968. **collected:** 1946. **collector id:** G-9A. **other id:** TEX 75. **remarks:** Bulk sample. Annual. Wild. Seed.

PI 549139 **donor id:** G-9B. **origin:** Guatemala. **pedigree:** Selection from PI 153968. **collected:** 1946. **collector id:** G-9B. **other id:** TEX 76. **remarks:** Bulk sample. Annual. Wild. Seed.

PI 549136 to 549151-continued

- PI 549140 donor id: G-10A. origin: Guatemala. pedigree: Selection from PI 153969. collected: 1946. collector id: G-10A. other id: TEX 78. remarks: Bulk sample. Annual. Wild. Seed.
- PI 549141 origin: Guatemala. pedigree: Selection from PI 153970. collected: 1946. collector id: G-11A. other id: TEX 80. remarks: Bulk sample. Annual. Wild. Seed.
- PI 549142 origin: Guatemala. pedigree: Selection from PI 153970. collected: 1946. collector id: G-11B. other id: TEX 81. remarks: Bulk sample. Annual. Wild. Seed.
- PI 549143 origin: Guatemala. pedigree: Selection from PI 153973. collected: 1946. collector id: G-14A. other id: TEX 85. locality: Mazatenango. latitude: 14 deg. 31 min. N. longitude: 91 deg. 30 min. W. Annual. Wild. Seed.
- PI 549144 origin: Guatemala. pedigree: Selection from PI 153980. collected: 1946. collector id: G-21A. other id: TEX 91. locality: Mazatenango. latitude: 14 deg. 31 min. N. longitude: 91 deg. 30 min. W. Annual. Wild. Seed.
- PI 549145 origin: Mexico. pedigree: Selection from PI 153999. collected: 1946. collector id: No. 20A. other id: TEX 11. locality: San Agustin de las Juntas. Annual. Wild. Seed.
- PI 549146 origin: Mexico. pedigree: Selection from PI 154026. collected: 1946. collector id: No. 48A. other id: TEX 19. locality: Inxtla. latitude: 16 deg. 45 min. N. longitude: 93 deg. 09 min. W. Annual. Wild. Seed.
- PI 549147 origin: Mexico. pedigree: Selection from PI 154026. collected: 1946. collector id: MEXICO #47. other id: TEX 465. locality: Inxtla. latitude: 16 deg. 45 min. N. longitude: 93 deg. 09 min. W. Annual. Wild. Seed.
- PI 549148 origin: Mexico. pedigree: Selection from PI 154028. collected: 1946. collector id: No. 50A. other id: TEX 21. locality: Inxtla. Annual. Wild. Seed.
- PI 549149 origin: Mexico. pedigree: Selection from PI 154051. collected: 1946. collector id: No. 73A. other id: TEX 38. locality: Acala. latitude: 16 deg. 35 min. N. longitude: 92 deg. 46 min. W. Annual. Wild. Seed.
- PI 549150 origin: Mexico. pedigree: Selection from 154052. collected: 1946. collector id: No. 74A. other id: TEX 40. locality: Acala. latitude: 16 deg. 35 min. N. longitude: 92 deg. 46 min. W. Annual. Wild. Seed.

PI 549136 to 549151-continued

PI 549151 **origin:** Mexico. **pedigree:** Selection from PI 154052.
collected: 1946. **collector id:** No. 74B. **other id:** TEX
41. **locality:** Acala. **latitude:** 16 deg. 35 min. N.
longitude: 92 deg. 46 min. W. Annual. Wild. Seed.

PI 549152 to 549153. *Abelmoschus* sp. MALVACEAE

Donated by: Toll, J., IBPGR, Rome, Italy. **remarks:** Received through
IBPGR, Rome, Italy. Received October 09, 1990.

PI 549152 **donor id:** TCD 136. **origin:** Chad. **collected:** November
27, 1987. **collector id:** TCD 136. **locality:** 177km NE
from Kyabe to Am Timan, 2km SW from Djouna, Salamat
Province. **latitude:** 10 deg. 20 min. N. **longitude:** 20
deg. 00 min. E. **elevation:** 450m. Wild. Seed.

PI 549153 **donor id:** TCD 143. **origin:** Chad. **collected:** November
28, 1987. **collector id:** TCD 143. **locality:** 62km SW from
Am Timan to Kyabe, 52km NE from Djouna, Salamat Province.
latitude: 10 deg. 40 min. N. **longitude:** 20 deg. 10 min.
E. **elevation:** 460m. Wild. Seed.

PI 549154 to 549156. *Abelmoschus esculentus* (L.) Moench MALVACEAE
Okra

Donated by: Toll, J., IBPGR, Rome, Italy. **remarks:** Received through
IBPGR, Rome, Italy. Received October 09, 1990.

PI 549154 **donor id:** TCD 128. **origin:** Chad. **collected:** November
27, 1987. **collector id:** TCD 128. **locality:** 134km NE
from Kyabe to Am Timan at Takalo, Salamat Province.
latitude: 10 deg. 10 min. N. **longitude:** 19 deg. 50 min.
E. **elevation:** 470m. Wild. Seed.

PI 549155 **donor id:** TCD 153. **origin:** Chad. **collected:** November
29, 1987. **collector id:** TCD 153. **locality:** 78km SW from
Am Timan at Zakouma village, Salamat Province. **latitude:**
10 deg. 50 min. N. **longitude:** 19 deg. 50 min. E.
elevation: 450m. Wild. Seed.

PI 549156 **donor id:** TCD 172. **origin:** Chad. **collected:** December
01, 1987. **collector id:** TCD 172. **locality:** 80km SE from
Am Timan at Koubo Abou Gara, Salamat Province. **latitude:**
10 deg. 30 min. N. **longitude:** 20 deg. 40 min. E.
elevation: 450m. Wild. Seed.

PI 549157. *Amaranthus graecizans* L. AMARANTHACEAE *Amaranthus*

Donated by: Toll, J., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received October 09, 1990.

donor id: MRT 090. **origin:** Mauritania. **collected:** November 02, 1987. **collector id:** MRT 090. **locality:** 1 km North of Tenemoulit (60 Km Sw Oujeft), Adrar Province. **latitude:** 19 deg. 45 min. N. **longitude:** 13 deg. 10 min. W. **elevation:** 500m. Wild. Seed.

PI 549158. *Amaranthus* sp. AMARANTHACEAE *Amaranthus*

Donated by: Toll, J., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received October 09, 1990.

donor id: MLI C017. **origin:** Mali. **collector id:** MLI C017. Wild. Seed.

PI 549159 to 549163. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
CUCURBITACEAE Watermelon

Donated by: Toll, J., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received October 09, 1990.

PI 549159 **donor id:** MRT 194. **origin:** Mauritania. **collected:** November 16, 1987. **collector id:** MRT 194. **locality:** 17km NNE of Selibabi, Guidimaka Province. **latitude:** 15 deg. 19 min. N. **longitude:** 12 deg. 10 min. W. **elevation:** 100m. **remarks:** Three fruits collected from field of sorghum. Wild. Seed.

PI 549160 **donor id:** TCD 007. **origin:** Chad. **collected:** October 11, 1987. **collector id:** TCD 007. **locality:** 38km Bol E to Doumdoum, Lac Province. **latitude:** 13 deg. 20 min. N. **longitude:** 15 deg. 00 min. E. **elevation:** 290m. Wild. Seed.

PI 549161 **donor id:** TCD 008. **origin:** Chad. **collected:** October 11, 1987. **collector id:** TCD 008. **locality:** 38km Bol E to Doumdoum, Lac Province. **latitude:** 13 deg. 20 min. N. **longitude:** 15 deg. 00 min. E. **elevation:** 290m. Wild. Seed.

PI 549162 **donor id:** TCD 033. **origin:** Chad. **local name:** BTERE. **collected:** October 24, 1987. **collector id:** TCD 033. **locality:** 37km Koundjourou Se to Sigou, 2km before Sigou, Batha. **latitude:** 13 deg. 00 min. N. **longitude:** 19 deg. 00 min. E. **elevation:** 390m. **remarks:** Wild form of the crop. Wild. Seed.

PI 549159 to 549163-continued

PI 549163 **donor id:** TCD 064. **origin:** Chad. **collected:** November 01, 1987. **collector id:** TCD 064. **locality:** 5km Am Zoer S, Biltine Province. **latitude:** 14 deg. 10 min. N. **longitude:** 21 deg. 20 min. E. **elevation:** 820m. Wild. Seed.

PI 549164. *Cyamopsis tetragonoloba* (L.) Taubert FABACEAE Guar

Donated by: Stafford, R.E., Cropping Systems Res. Lab., USDA-ARS, Route 3, Box 215, Lubbock, Texas, United States. Received April 22, 1991.

origin: United States. **cultivar:** MS-I. **pedigree:** Selection from breeding line TX76-3285. **remarks:** Mutant with a rosette-raceme and reduced fertility. Spring Annual. Breeding Material. Seed.

PI 549165. *Helianthus petiolaris* Nutt. ASTERACEAE Kansas sunflower

Donated by: van Bruggen, T., Dept. of Biology, University of South Dakota, Vermillion, South Dakota, United States. **remarks:** Received through G.J. Seiler, Sunflower Research, Conservation & Production Res. Lab., USDA-ARS, Bushland, Texas. Received October 17, 1983.

donor id: TVB-56. **origin:** United States. **collected:** October 04, 1982. **collector id:** TVB-56. **other id:** Ames 2734. **group:** Ames. **other id:** PET-1787. **locality:** Ditch by Vermillion airport, Clay County. Site location: SE 1/4 of SW 1/4, Sec. 24, R5-2W, T-92 N. **latitude:** 42 deg. 47 min. N. **longitude:** 96 deg. 56 min. W. Annual. Wild. Seed.

PI 549166. *Dianthus plumarius* L. CARYOPHYLLACEAE

Donated by: Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska, United States; and Agricultural Research Service -- USDA. Received April 29, 1991.

PI 549166-continued

origin: United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Dept. of Horticulture, Lincoln, Nebraska 68583. **cultivar:** SMOKEY. **pedigree:** Selection from PI 371894. **remarks:** Plant to 12cm in height, dense, low growing, spreading. Multiple flowering stems to 28cm height. Excellent winter hardiness. Disease resistance across Nebraska and adjacent states. Survived winter temperatures of -31 deg. C. Shown less leaf spot symptoms of Alternaria blights than commonly seen on other field-grown Dianthus selections. Foliage grayish-blue color. Leaves 4mm in width and 5cm in length. Perennial. Cultivar. Seed.

PI 549167 to 549211. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Toll, J., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received October 09, 1990.

PI 549167 **donor id:** MRT 014A. **origin:** Mauritania. **local name:** Bichne. **collected:** October 09, 1987. **collector id:** MRT 014A. **locality:** Grain store, 10km from Rkiz on circuit of lake via Ne Dir., Trarza. **latitude:** 16 deg. 53 min. N. **longitude:** 15 deg. 13 min. W. **elevation:** 15m. **remarks:** Local variety. Wild. Seed.

PI 549168 **donor id:** MRT 014B. **origin:** Mauritania. **collected:** October 09, 1987. **collector id:** MRT 014B. **locality:** Grain store, 10km from Rkiz on circuit of lake via Ne Dir., Trarza. **latitude:** 16 deg. 53 min. N. **longitude:** 15 deg. 13 min. E. **elevation:** 15m. **remarks:** Local variety. Wild. Seed.

PI 549169 **donor id:** MRT 146. **origin:** Mauritania. **local name:** Lebeidha. **collected:** November 18, 1987. **collector id:** MRT 146. **locality:** 12km SW of Ayoun El Atrous, Hodh, Archame. **latitude:** 16 deg. 37 min. N. **longitude:** 09 deg. 40 min. W. **elevation:** 192m. **remarks:** Map scale=1:200000. Local variety. Wild. Seed.

PI 549170 **donor id:** MRT 155. **origin:** Mauritania. **local name:** Rahya. **collected:** November 20, 1987. **collector id:** MRT 155. **locality:** Approx. 167km S of Ayoun El Atrous, Hodh towards Touil. **latitude:** 15 deg. 42 min. N. **longitude:** 09 deg. 44 min. W. **elevation:** 150m. **remarks:** Map scale 1:200000. Local variety. Field cultivated. Wild. Seed.

PI 549167 to 549211-continued

- PI 549171 **donor id:** MRT 157. **origin:** Mauritania. **local name:** Takhalite. **collected:** November 20, 1987. **collector id:** MRT 157. **locality:** Approx. 167km S of Ayoun El Atrous, Hodh towards Touil. **latitude:** 15 deg. 42 min. N. **longitude:** 09 deg. 44 min. W. **elevation:** 150m. **remarks:** Map scale 1:200000. Local variety. Wild. Seed.
- PI 549172 **donor id:** MRT 158. **origin:** Mauritania. **local name:** El Vadila. **collected:** November 20, 1987. **collector id:** MRT 158. **locality:** Mahreiche, approx. 166km S of Ayoun El Atrous, Hodh. **latitude:** 15 deg. 40 min. N. **longitude:** 09 deg. 44 min. W. **elevation:** 150m. **remarks:** Map scale 1:200000. Plant density 5/1 sq m. Wild. Seed.
- PI 549173 **donor id:** MRT 159. **origin:** Mauritania. **local name:** Bichna el Beidha. **collected:** November 20, 1987. **collector id:** MRT 159. **locality:** Mahreiche, approx. 166km S of Ayoun El Atrous, Hodh. **latitude:** 15 deg. 40 min. N. **longitude:** 09 deg. 44 min. W. **elevation:** 150m. **remarks:** Map scale 1:200000. Wild. Seed.
- PI 549174 **donor id:** MRT 160. **origin:** Mauritania. **local name:** Lahmar. **collected:** November 20, 1987. **collector id:** MRT 160. **locality:** Mahreiche, approx. 166km S of Ayoun El Atrous, Hodh. **latitude:** 15 deg. 40 min. N. **longitude:** 09 deg. 44 min. W. **elevation:** 150m. **remarks:** Map scale 1:200000. Wild. Seed.
- PI 549175 **donor id:** MRT 161. **origin:** Mauritania. **local name:** Rahya Hamra Beidha. **collected:** November 20, 1987. **collector id:** MRT 161. **locality:** Mahreiche, approx. 166km S of Ayoun El Atrous, Hodh. **latitude:** 15 deg. 40 min. N. **longitude:** 09 deg. 44 min. W. **elevation:** 150m. **remarks:** Map scale 1:200000. Wild. Seed.
- PI 549176 **donor id:** MRT 162. **origin:** Mauritania. **local name:** Beichna lahmar. **collected:** November 20, 1987. **collector id:** MRT 162. **locality:** 8km E of Kobenni, Hodh. **latitude:** 15 deg. 49 min. N. **longitude:** 09 deg. 22 min. W. **elevation:** 190m. **remarks:** Map scale: 1200000. Wild. Seed.
- PI 549177 **donor id:** MRT 165. **origin:** Mauritania. **local name:** Lmouch. **collected:** November 21, 1987. **collector id:** MRT 165. **locality:** Boufseiya, 13km E of Gleibat, Hodh. **latitude:** 15 deg. 41 min. N. **longitude:** 08 deg. 51 min. W. **elevation:** 230m. **remarks:** Plant density 2/1 sq m. Wild. Seed.

PI 549167 to 549211-continued

- PI 549178 donor id: MRT 166. origin: Mauritania. local name: Bichna lekbihra. collected: November 21, 1987. collector id: MRT 166. locality: Boufseiija, 13km E of Gleibat, Hodh. latitude: 15 deg. 41 min. N. longitude: 08 deg. 51 min. W. elevation: 230m. remarks: Plant density approx. 2/1 sq. m. Wild. Seed.
- PI 549179 donor id: MRT 167. origin: Mauritania. local name: Bichna ahjnana. collected: November 21, 1987. collector id: MRT 167. locality: Boufseiija, 13km E of Gleibat, Hodh. latitude: 15 deg. 41 min. N. longitude: 08 deg. 51 min. W. elevation: 230m. remarks: Plant density approx. 2/1 sq. m. Wild. Seed.
- PI 549180 donor id: MRT 185. origin: Mauritania. local name: Gueine. collected: November 26, 1987. collector id: MRT 185. locality: Khatt El Aoud, 39km S of Nema., Hodh Oriental. latitude: 16 deg. 21 min. N. longitude: 07 deg. 09 min. W. elevation: 240m. remarks: Only 1 plant sampled from sorghum field. Wild. Seed.
- PI 549181 donor id: MRT 186. origin: Mauritania. local name: Kheilou. collected: November 24, 1987. collector id: MRT 186. locality: Khatt El Aoud, 39km S of Nema, Hodh Oriental. latitude: 16 deg. 21 min. N. longitude: 07 deg. 09 min. W. elevation: 240m. remarks: Only one plant sampled from sorghum field. Wild. Seed.
- PI 549182 donor id: TCD 012. origin: Chad. local name: Kourdoufal. collected: October 20, 1987. collector id: TCD 012. locality: Moito village, Chari Baguirmi. latitude: 12 deg. 30 min. N. longitude: 16 deg. 30 min. E. elevation: 360m. Wild. Seed.
- PI 549183 donor id: TCD 045. origin: Chad. local name: Kouriguigui. collected: October 29, 1987. collector id: TCD 045. locality: 70km SE from Abeche to Goz Beida at Abkar village, Ouaddai. latitude: 13 deg. 10 min. N. longitude: 29 deg. 10 min. E. elevation: 580m. Wild. Seed.
- PI 549184 donor id: TCD 046. origin: Chad. local name: Himeroua. collected: October 29, 1987. collector id: TCD 046. locality: 70km SE of Abeche to Goz Beida at Abkar village, Ouaddai. latitude: 13 deg. 10 min. N. longitude: 21 deg. 10 min. E. elevation: 580m. Wild. Seed.
- PI 549185 donor id: TCD 063. origin: Chad. collected: November 01, 1987. collector id: TCD 063. locality: 5km S of Am Zoer, Biltine. latitude: 14 deg. 10 min. N. longitude: 21 deg. 20 min. E. elevation: 820m. Wild. Seed.

PI 549167 to 549211-continued

- PI 549186 **donor id:** TCD 072. **origin:** Chad. **local name:** Kazagou. **collected:** November 10, 1987. **collector id:** TCD 072. **locality:** 5km SW of Moussoro at Delebanga village, Kanem. **latitude:** 13 deg. 30 min. N. **longitude:** 16 deg. 20 min. E. **elevation:** 320m. Wild. Seed.
- PI 549187 **donor id:** TCD 076A. **origin:** Chad. **collected:** November 12, 1987. **collector id:** TCD 076A. **locality:** Village Tourba, Chari Baguirmi. **latitude:** 12 deg. 50 min. N. **longitude:** 15 deg. 20 min. E. **elevation:** 320m. Wild. Seed.
- PI 549188 **donor id:** TCD 076B. **origin:** Chad. **collected:** November 12, 1987. **collector id:** TCD 078B. **locality:** Village Tourba, Chari Baguirmi. **latitude:** 12 deg. 50 min. N. **longitude:** 15 deg. 20 min. E. **elevation:** 320m. Wild. Seed.
- PI 549189 **donor id:** TCD 086. **origin:** Chad. **collected:** November 15, 1987. **collector id:** TCD 086. **locality:** 89km E of Ndjamaena at Mayo Ache village, Chari Baguirmi. **latitude:** 12 deg. 00 min. N. **longitude:** 15 deg. 40 min. E. **elevation:** 350m. Wild. Seed.
- PI 549190 **donor id:** TCD 091. **origin:** Chad. **local name:** Kourdafan rouge. **collected:** November 16, 1987. **collector id:** TCD 091. **locality:** 36km NE of Doubali to Bokoro at Djenere village, Chari Baguirmi. **latitude:** 12 deg. 00 min. N. **longitude:** 16 deg. 00 min. E. **elevation:** 330m. Wild. Seed.
- PI 549191 **donor id:** TCD 092. **origin:** Chad. **local name:** Kourdafan blanc. **collected:** November 16, 1987. **collector id:** TCD 092. **locality:** 36km NE of Doubali to Bokoro at Djenere village, Chari Baguirmi. **latitude:** 12 deg. 00 min. N. **longitude:** 16 deg. 00 min. E. **elevation:** 330m. Wild. Seed.
- PI 549192 **donor id:** TCD 093. **origin:** Chad. **local name:** Djerto. **collected:** November 16, 1987. **collector id:** TCD 093. **locality:** 36km NE of Doubali to Bokoro at Djenere village, Chari Baguirm. **latitude:** 12 deg. 00 min. N. **longitude:** 16 deg. 00 min. E. **elevation:** 330m. Wild. Seed.
- PI 549193 **donor id:** TCD 096. **origin:** Chad. **collected:** November 16, 1987. **collector id:** TCD 096. **locality:** 115km E of Doubali to Bokoro at Arbusuba village, Chari Baguirmi. **latitude:** 12 deg. 10 min. N. **longitude:** 16 deg. 40 min. E. **elevation:** 350m. Wild. Seed.

PI 549167 to 549211-continued

- PI 549194 donor id: TCD 099. origin: Chad. local name: Kouryanyan. collected: November 17, 1987. collector id: TCD 099. locality: 40km S of Bokoro to Ngama at Dilbini village, Chari Baguirmi. latitude: 12 deg. 00 min. N. longitude: 17 deg. 00 min. E. elevation: 340m. Wild. Seed.
- PI 549195 donor id: TCD 100. origin: Chad. local name: Kourdafan blanc. collected: November 17, 1987. collector id: TCD 100. locality: 40km S of Bokoro to Ngama at Dilbini village, Chari Baguirmi. latitude: 12 deg. 00 min. N. longitude: 17 deg. 00 min. E. elevation: 340m. remarks: Sample TCD 101 and TCD 107 mixed. Wild. Seed.
- PI 549196 donor id: TCD 101A. origin: Chad. local name: Kourdafan rouge. collected: November 17, 1987. collector id: TCD 101A. locality: 40km Sof Bokoro to Ngama at Dilbini village, Chari Baguirmi. latitude: 12 deg. 00 min. N. longitude: 17 deg. 00 min. E. elevation: 340m. remarks: Race Durra, gooseneck. Wild. Seed.
- PI 549197 donor id: TCD 102. origin: Chad. collected: November 17, 1987. collector id: TCD 102. locality: 40km S of Bokoro to Ngama at Dilbini village, Chari Baguirmi. latitude: 12 deg. 00 min. N. longitude: 17 deg. 00 min. E. elevation: 340m. remarks: Race Durra, not gooseneck. Wild. Seed.
- PI 549198 donor id: TCD 116. origin: Chad. local name: Dogi. collected: November 20, 1987. collector id: TCD 116. locality: 23km N of Massenya to Doubali at Karna village, Chari Baguirmi. latitude: 11 deg. 30 min. N. longitude: 16 deg. 00 min. E. elevation: 330m. Wild. Seed.
- PI 549199 donor id: TCD 117. origin: Chad. local name: Wha. collected: November 20, 1987. collector id: TCD 117. locality: 23km N of Massenya to Doubali at Karna village, Chari Baguirmi. latitude: 11 deg. 30 min. N. longitude: 16 deg. 00 min. E. elevation: 330m. Wild. Seed.
- PI 549200 donor id: TCD 118. origin: Chad. local name: Kourdoufan. collected: November 20, 1987. collector id: TCD 118. locality: 23km N of Massenya to Doubali at Karna village, Chari Baguirmi. latitude: 11 deg. 30 min. N. longitude: 16 deg. 00 min. E. elevation: 330m. Wild. Seed.
- PI 549201 donor id: TCD 124. origin: Chad. local name: Berbere. collected: November 27, 1987. collector id: TCD 124. locality: 134km NE of Kyabe to Am Timan at Takalo, Salamat. latitude: 10 deg. 10 min. N. longitude: 19 deg. 50 min. E. elevation: 470m. Wild. Seed.

PI 549167 to 549211-continued

- PI 549202 donor id: TCD 126. origin: Chad. local name: Borboto.
collected: November 27, 1987. collector id: TCD 126.
locality: 134km NE of Kyabe to Am Timan at Takalo,
Salamat. latitude: 10 deg. 10 min. N. longitude: 19
deg. 50 min. E. elevation: 470m. Wild. Seed.
- PI 549203 donor id: TCD 150. origin: Chad. local name: Berbere.
collected: November 29, 1987. collector id: TCD 150.
locality: 70km SW to Am Timan at Zakouma village,
Salamat. latitude: 10 deg. 50 min. N. longitude: 19
deg. 50 min. E. elevation: 450m. Wild. Seed.
- PI 549204 donor id: TCD 151. origin: Chad. local name: Kouryanya.
collected: November 29, 1987. collector id: TCD 151.
locality: 70km SW of Am Timan at Zakouma village,
Salamat. latitude: 10 deg. 50 min. N. longitude: 19
deg. 50 min. E. elevation: 450m. Wild. Seed.
- PI 549205 donor id: TCD 162. origin: Chad. local name: Babashi.
collected: December 01, 1987. collector id: TCD 162.
locality: 80km SE of Am Timan at Koubo Abou Gara,
Salamat. latitude: 10 deg. 30 min. N. longitude: 20
deg. 40 min. E. elevation: 450m. Wild. Seed.
- PI 549206 donor id: TCD 163. origin: Chad. local name: Ndjedda.
collected: December 01, 1987. collector id: TCD 163.
locality: 80km SE of Am Timan at Koubo Abou Gara,
Salamat. latitude: 10 deg. 30 min. N. longitude: 20
deg. 40 min. E. elevation: 450m. Wild. Seed.
- PI 549207 donor id: TCD 164. origin: Chad. local name:
Kourgnangna. collected: December 01, 1987. collector
id: TCD 164. locality: 80km SE of Am Timan at Koubo Abou
Gara, Salamat. latitude: 10 deg. 30 min. N. longitude:
20 deg. 40 min. E. elevation: 450m. Wild. Seed.
- PI 549208 donor id: TCD 165. origin: Chad. local name: Doula.
collected: December 01, 1987. collector id: TCD 165.
locality: 80km SE of Am Timan at Koubo Abou Gara,
Salamat. latitude: 10 deg. 30 min. N. longitude: 20
deg. 40 min. E. elevation: 450m. Wild. Seed.
- PI 549209 donor id: TCD 167. origin: Chad. local name: Mareka.
collected: December 01, 1987. collector id: TCD 167.
locality: 80km SE of Am Timan at Koubo Abou Gara,
Salamat. latitude: 10 deg. 30 min. N. longitude: 20
deg. 40 min. E. elevation: 450m. Wild. Seed.

PI 549167 to 549211-continued

PI 549210 **donor id:** TCD 168. **origin:** Chad. **local name:** Koungnagna. **collected:** December 01, 1987. **collector id:** TCD 168. **locality:** 80km SE of Am Timan at Koubo Abou Gara, Salamat. **latitude:** 10 deg. 30 min. N. **longitude:** 20 deg. 40 min. E. **elevation:** 450m. Wild. Seed.

PI 549211 **donor id:** TCD 169. **origin:** Chad. **local name:** Kourgnagna. **collected:** December 01, 1987. **collector id:** TCD 169. **locality:** 80km SE of Am Timan at Koubo Abou Gara, Salamat. **latitude:** 10 deg. 30 min. N. **longitude:** 20 deg. 40 min. E. **elevation:** 450m. Wild. Seed.

PI 549212 to 549214. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Toll, J., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received October 09, 1990.

PI 549212 **donor id:** TCD 130. **origin:** Chad. **collected:** November 27, 1987. **collector id:** TCD 130. **locality:** 134km NE of Kyabe to Am Timan at Takalo, Salamat. **latitude:** 10 deg. 10 min. N. **longitude:** 19 deg. 50 min. E. **elevation:** 470m. Wild. Seed.

PI 549213 **donor id:** TCD 131. **origin:** Chad. **collected:** November 27, 1987. **collector id:** TCD 131. **locality:** 134km NE of Kyabe to Am Timan at Takalo, Salamat. **latitude:** 10 deg. 10 min. N. **longitude:** 19 deg. 50 min. E. **elevation:** 470m. Wild. Seed.

PI 549214 **donor id:** TCD 152. **origin:** Chad. **collected:** November 29, 1987. **collector id:** TCD 152. **locality:** 70km SW of Am Timan at Zakouma village, Salamat. **latitude:** 10 deg. 50 min. N. **longitude:** 19 deg. 50 min. E. **elevation:** 450m. Wild. Seed.

PI 549215 to 549253. *Oryza sativa* L. POACEAE Rice

Donated by: Iizuka, M., Faculty of Horticulture, Chiba University, Matsudo-shi, Chiba-ken, Japan; and Nakogawara, M., National Institute of Agr. Res., 2-1-2 Kannondia, Yatcbemachi, Tsukubagun, Ibaragi-Ken, Japan. **remarks:** Received through IBPGR, Rome Italy. Received December 13, 1984.

PI 549215 **origin:** Nepal. **local name:** Dhan. **collected:** November 1984. **other id:** F 112. **source:** GD. **locality:** Nepalganj. **elevation:** 200m. Landrace. Seed.

PI 549215 to 549253-continued

- PI 549216 **origin:** Nepal. **local name:** Dhan. **collected:** November 1984. **other id:** F 113. **source:** GD. **locality:** Nepalganj. **elevation:** 200m. Landrace. Seed.
- PI 549217 **origin:** Nepal. **local name:** Pakhe dhan. **collected:** November 1984. **other id:** F 114. **source:** GD. **locality:** Jumla. **elevation:** 2320m. Landrace. Seed.
- PI 549218 **origin:** Nepal. **local name:** Jumli dhan. **collected:** November 1984. **other id:** F 115. **source:** GD. **locality:** Jumla. **elevation:** 2320m. Landrace. Seed.
- PI 549219 **origin:** Nepal. **local name:** Jumli dhan. **collected:** November 1984. **other id:** F 116. **source:** GD. **locality:** Jumla. **elevation:** 2320m. Landrace. Seed.
- PI 549220 **origin:** Nepal. **local name:** Jumli dhan. **collected:** November 1984. **other id:** F 117. **source:** GD. **locality:** Jumla. **elevation:** 2320m. Landrace. Seed.
- PI 549221 **origin:** Nepal. **local name:** Jumli dhan. **collected:** November 1984. **other id:** F 118. **source:** GD. **locality:** Jumla. **elevation:** 2320m. Landrace. Seed.
- PI 549222 **origin:** Nepal. **collected:** December 1984. **other id:** F 119. **source:** GD. **locality:** Madan Pokhara, 20 km south of Tansen. **elevation:** 980m. Landrace. Seed.
- PI 549223 **origin:** Nepal. **local name:** Jumli dhan. **collected:** December 1984. **other id:** F 120. **source:** GD. **locality:** Bohola, 2 km west of Jumla. **elevation:** 2400m. Landrace. Seed.
- PI 549224 **origin:** Nepal. **local name:** Jumli dhan. **collected:** December 1984. **other id:** F 121. **source:** GD. **locality:** Gidi, west of Jumla. **elevation:** 2400m. Landrace. Seed.
- PI 549225 **origin:** Nepal. **local name:** Jumli dhan. **collected:** December 1984. **other id:** F 122. **source:** GD. **locality:** Burtha Bada, 2 km north of Jumla. **elevation:** 2380m. Landrace. Seed.
- PI 549226 **origin:** Nepal. **local name:** Kalo Metha Dhan. **collected:** November 1984. **other id:** F 123. **source:** GD. **locality:** Chisapani, north of Nepalganj. **elevation:** 210m. Landrace. Seed.
- PI 549227 **origin:** Nepal. **local name:** Dhan. **collected:** November 1984. **other id:** F 124. **source:** GD. **locality:** Dhode, south of Nepalganj. **elevation:** 130m. **remarks:** Seeds tan. Landrace. Seed.

PI 549215 to 549253-continued

- PI 549228 **origin:** Nepal. **local name:** Dhan. **collected:** November 1984. **other id:** F 125. **source:** GD. **locality:** Dhode, south of Nepalganj. **elevation:** 130m. **remarks:** Seeds dark, striped. Landrace. Seed.
- PI 549229 **origin:** Nepal. **local name:** Karngi. **collected:** November 1984. **other id:** F 126. **source:** GD. **locality:** Belvar, south of Nepalganj. **elevation:** 130m. Landrace. Seed.
- PI 549230 **origin:** Nepal. **local name:** Suga Paukhi Dhan. **collected:** November 1984. **other id:** F 127. **source:** GD. **locality:** Belvar, south of Nepalganj. **elevation:** 130m. Landrace. Seed.
- PI 549231 **origin:** Nepal. **local name:** Dheduwa Dhan. **collected:** November 1984. **other id:** F 128. **source:** GD. **locality:** Belvar, south of Nepalganj. **elevation:** 130m. Landrace. Seed.
- PI 549232 **origin:** Nepal. **local name:** Dirwa. **collected:** November 1984. **other id:** F 129. **source:** GD. **locality:** Belvar, near Nepalganj. **elevation:** 130m. Landrace. Seed.
- PI 549233 **origin:** Nepal. **collected:** November 1984. **other id:** F 130. **source:** GD. Landrace. Seed.
- PI 549234 **origin:** Nepal. **collected:** November 1984. **other id:** F 131. **source:** GD. Landrace. Seed.
- PI 549235 **origin:** Nepal. **local name:** Ratomansara. **collected:** November 1984. **other id:** F 132. **source:** GD. **locality:** Udaipur. **elevation:** 800m. Landrace. Seed.
- PI 549236 **origin:** Nepal. **collected:** November 1984. **other id:** F 133. **source:** GD. Landrace. Seed.
- PI 549237 **origin:** Nepal. **collected:** November 1984. **other id:** F 134. **source:** GD. Landrace. Seed.
- PI 549238 **origin:** Nepal. **local name:** Dudhel. **collected:** November 1984. **other id:** F 135. **source:** GD. **locality:** Khare. **elevation:** 270m. Landrace. Seed.
- PI 549239 **origin:** Nepal. **collected:** November 1984. **other id:** F 136. **source:** GD. **remarks:** Seeds tan (light colored). Landrace. Seed.
- PI 549240 **origin:** Nepal. **collected:** November 1984. **other id:** F 137. **source:** GD. **remarks:** Seeds brown. Landrace. Seed.

PI 549215 to 549253-continued

- PI 549241 **origin:** Nepal. **local name:** Anapachhia. **collected:** November 1984. **other id:** F 138. **source:** GD. **locality:** Kewa Bagar. **elevation:** 230m. Landrace. Seed.
- PI 549242 **origin:** Nepal. **local name:** Kathakamal. **collected:** November 1984. **other id:** F 139. **source:** GD. **locality:** Kewa Bagar. **elevation:** 230m. Landrace. Seed.
- PI 549243 **origin:** Nepal. **local name:** Bore Dhan. **collected:** November 1984. **other id:** F 140. **source:** GD. **locality:** Kewa Bagar. **elevation:** 230m. **remarks:** Seeds uniformly brown. Landrace. Seed.
- PI 549244 **origin:** Nepal. **collected:** November 1984. **other id:** F 141. **source:** GD. Landrace. Seed.
- PI 549245 **origin:** Nepal. **collected:** November 1984. **other id:** F 142. **source:** GD. Landrace. Seed.
- PI 549246 **origin:** Nepal. **collected:** November 1984. **other id:** F 143. **source:** GD. Landrace. Seed.
- PI 549247 **origin:** Nepal. **local name:** Basmati mutant. **collected:** November 1984. **other id:** F 144. **source:** GD. **locality:** Kewa Bagar. **elevation:** 230m. Landrace. Seed.
- PI 549248 **origin:** Nepal. **local name:** Shyano Kalan. **collected:** November 1984. **other id:** F 145. **source:** GD. **locality:** Garamuni. **elevation:** 90m. Landrace. Seed.
- PI 549249 **origin:** Nepal. **collected:** November 1984. **other id:** F 146. **source:** GD. Landrace. Seed.
- PI 549250 **origin:** Nepal. **collected:** December 1984. **other id:** F 147. **source:** GD. **remarks:** Seeds tan. Landrace. Seed.
- PI 549251 **origin:** Nepal. **collected:** December 1984. **other id:** F 148. **source:** GD. **remarks:** Seeds black. Landrace. Seed.
- PI 549252 **origin:** Nepal. **collected:** December 1984. **other id:** F 149. **source:** GD. Landrace. Seed.
- PI 549253 **origin:** Nepal. **collected:** December 1984. **other id:** F 150. **source:** GD. Landrace. Seed.

PI 549254. *Oryza sativa* L. POACEAE Rice

Donated by: Iizuka, M., Faculty of Horticulture, Chiba University, Matsudo-shi, Honshu, Japan; and Nakogawara, M., National Institute of Agr. Res., 212 Kannondia, Yatsbemachi, Tsukubagun, Ibaragi-Ken, Japan. **remarks:** Received through IBPGR, Rome Italy. Received December 13, 1984.

donor id: 2002b. **origin:** Nepal. **other id:** F 226.
source: GD. **other id:** 2002B. **received as:** *Fagopyrum
esculentum*. Seed.

PI 549255. *Ipomoea coptica* (L.) Roth ex Roemer & Schultes
CONVOLVULACEAE

Donated by: Johnson, R.W., Queensland Herbarium, Meiers Road, Indooroopilly, Queensland, Australia. Received May 06, 1991.

donor id: J 130. **origin:** Australia. Cultivated. Seed.

PI 549256. *Ipomoea diamantinensis* J. Black ex Eardley CONVOLVULACEAE

Donated by: Johnson, R.W., Queensland Herbarium, Meiers Road, Indooroopilly, Queensland, Australia. Received May 06, 1991.

donor id: J 281. **origin:** Australia. Cultivated. Seed.

PI 549257. *Ipomoea ochracea* (Lindley) G. Don CONVOLVULACEAE

Donated by: Johnson, R.W., Queensland Herbarium, Meiers Road, Indooroopilly, Queensland, Australia. Received May 06, 1991.

donor id: J 80. **origin:** Australia. Cultivated. Seed.

PI 549258. *Ipomoea pes-tigridis* L. CONVOLVULACEAE

Donated by: Johnson, R.W., Queensland Herbarium, Meiers Road, Indooroopilly, Queensland, Australia. Received May 06, 1991.

donor id: J 355. **origin:** Australia. Cultivated. Seed.

PI 549259. *Ipomoea plebeia* R. Br. CONVOLVULACEAE

Donated by: Johnson, R.W., Queensland Herbarium, Meiers Road, Indooroopilly, Queensland, Australia. Received May 06, 1991.

donor id: J 154. **origin:** Australia. Cultivated. Seed.

PI 549260 to 549264. *Linum usitatissimum* L. LINACEAE Flax

Donated by: Dang, Z., Institute of Industrial Crops, Gansu Academy of Agricultural Sciences, Lanzhou, Gansu, China. Received April 30, 1991.

PI 549260 **origin:** China. **cultivar:** CHINA 7528. Cultivar. Seed.

PI 549261 **origin:** China. **cultivar:** DING YA 17. Cultivar. Seed.

PI 549262 **origin:** China. **cultivar:** LONG YA 7. Cultivar. Seed.

PI 549263 **origin:** China. **cultivar:** TIANYA 2. Cultivar. Seed.

PI 549264 **origin:** China. **cultivar:** TINAYA 5. Cultivar. Seed.

PI 549265. *Sesamum indicum* L. PEDALIACEAE Sesame

Donated by: Ibrahim, M.A., Dept. of Agri. Chemistry, Somalia National University, P.O. Box 801, Mogadishu, Somalia. Received April 10, 1991.

origin: Somalia. **origin institute:** Agricultural Research Institute, P.O. box 24, Mogadishu. **cultivar:** AV.1.
collected: November 1990. **other id:** SS-16. **locality:** Mogadishu. **remarks:** Locally adapted in the Afgoi District, a subtropical area. Annual. Cultivar. Seed.

PI 549266 to 549268. *Panicum miliaceum* L. POACEAE Proso millet

Donated by: Muneo, I., Faculty of Horticulture, Chiba University, Matsudo-shi, Chiba-ken, Japan; and Nakagawara, M., National Inst. of Agricultural Resources, 2-1-2 Kannondai, Yatabe-mochi, Tsukuba-gun, Japan. **remarks:** Received through IBPGR, Rome, Italy. Received March 08, 1990.

PI 549266 **donor id:** 2002a. **origin:** Nepal. **collector id:** 2002a. Wild. Seed.

PI 549267 **donor id:** 2003a. **origin:** Nepal. **collector id:** 2003a. Wild. Seed.

PI 549268 **donor id:** 2061. **origin:** Nepal. **collector id:** 2061. Wild. Seed.

PI 549269. *Festuca rubra* subsp. *commutata* Gaud. POACEAE

Donated by: Hurley, R., Lofts Seed Inc., Chimney Rock Road, Bound Brook, New Jersey, United States. Received May 07, 1991.

PI 549269-continued

origin: United States. **cultivar:** JAMESTOWN II.
pedigree: LF-1/Jamestown. **other id:** PVP 9100254.
source: Pending. **group:** PVPO. Perennial. Cultivar.
Seed.

PI 549270 to 549273. Medicago hybrid FABACEAE Alfalfa

Donated by: Bingham, E.T., Wisconsin Agr. Exp. Sta., University of Wisconsin, Madison, Wisconsin, United States. Received May 07, 1991.

PI 549270 **origin:** United States. **origin institute:** University of Wisconsin, Madison, Wisconsin. **cultivar:** W70-22.
pedigree: Diploid *M. sativa* (Saranac-type plants)/Diploid *M. falcata* (15 PIs). **other id:** GP-47. **source:** Crop Sci. 15(6):889 1975. **group:** CSR-ALFALFA. **remarks:** Typical diploid population that yields about half as much seed or herbage as a tetraploid. Typical characteristics of a hybrid between *M. sativa* and *M. falcata*. Flowers cream, yellow, variegated, blue and purple. Pods sickle to coiled. Diploid W70-22 and tetraploid W71-42 have same cytoplasm (*M. sativa*) and about 75% genes in common. Intended use is breeding for weevil resistance at the. Perennial. Breeding Material. Seed.

PI 549271 **origin:** United States. **origin institute:** University of Wisconsin, Madison, Wisconsin. **cultivar:** W71-42.
pedigree: Tetraploid *M. sativa* (Saranac-type)/Diploid *M. falcata* (15 PIs). **other id:** GP-48. **source:** Crop Sci. 15(6):889 1975. **group:** CSR-ALFALFA. **remarks:** Flowers cream, yellow, variegated, blue and purple. Pods coiled, half to full. W71-42 and W70-22 have same cytoplasm and are genetically related. Winter hardy in Wisconsin. Perennial. Breeding Material. Seed.

PI 549272 **origin:** United States. **origin institute:** University of Wisconsin, Madison, Wisconsin. **cultivar:** W71-47.
pedigree: Saranac/PI 231731 (2x *M. falcata*). **other id:** GP-49. **source:** Crop Sci. 15(6):889 1975. **group:** CSR-ALFALFA. **remarks:** Flowers cream, yellow, variegated, and purple. Carries the multiple pest resistance that is in PI 231731. Perennial. Breeding Material. Seed.

PI 549273 **origin:** United States. **origin institute:** University of Wisconsin, Madison, Wisconsin. **cultivar:** W72-48.
pedigree: Tetraploid *M. sativa* (3 Saranac type PIs)/Diploid *M. falcata* (15 PIs). **other id:** GP-50.
source: Crop Sci. 15(6):889 1975. **group:** CSR-ALFALFA.
remarks: Maximum-diversity hybrid population. Flowers cream, yellow, variegated and purple. Perennial. Breeding Material. Seed.

PI 549274. *Festuca ovina* L. POACEAE Sheep fescue

Donated by: Meyer, W., Pure-Seed Testing, Inc., 3057 G. Street, Hubbard, Oregon, United States. Received May 07, 1991.

origin: United States. **cultivar:** BIGHORN. **pedigree:** Advanced generation synthetic resulting from 3 cycles of recurrent selection. Germplasm originated from old turf areas in New Jersey. **remarks:** Low growing turf with good density, fine texture and blue gray color. Performed well in turf trials across U.S. Resistance good to net blotch (*Drechslera dictyoides*), Fusarium patch (*Fusarium nivale*), dollar spot (*Sclerotinia homeocarpa*), and red thread (*Laetisaria fuciformis*). Perennial. Cultivar. Seed.

PI 549275. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Talbert, L.E., Montana Agr. Exp. Sta., Montana State University, Bozeman, Montana, United States; and Agricultural Research Service -- USDA. **remarks:** Hi-Line Wheat. Received May 07, 1991.

origin: United States. **origin institute:** Montana Agr. Exp. Sta., Montana State University, Bozeman, Montana 59717. **cultivar:** HI-LINE. **pedigree:** PK176/Sheridan//Shortana. **other id:** CV-771. **source:** Crop Sci. 32(1):283 1992. **group:** CSR-WHEAT. **remarks:** Hard red semidwarf with white straw and chaff. Spike awned, nodding slightly at maturity. Kernels red, short and ovate with mid-sized brush. Hollow stemmed and susceptible to wheat stem sawfly (*Cephus cinctus*). Resistant to prevalent races of stem rust (*Puccinia graminis*). Susceptible to leaf rust (*Puccinia recondita*) and stripe rust (*Puccinia striiformis*). Matures at midseason. Produces good test. Spring Annual. Cultivar. Seed.

PI 549276. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Sears, R.G., Kansas Agr. Exp. Sta., Kansas State University, Manhattan, Kansas, United States; and Agricultural Research Service -- USDA. **remarks:** Hamlet Wheat Germplasm. Received May 07, 1991.

PI 549276-continued

origin: United States. **origin institute:** Kansas Agr. Exp. Sta., Kansas State University, Manhattan, Kansas 66506. **cultivar:** HAMLET. **pedigree:** ND7532/Chaupon//4*ND7532. **other id:** KS89WGRC8. **other id:** GP-332. **group:** CSR-WHEAT. **remarks:** Homogeneously resistant to biotype L of the Hessian fly when tested under greenhouse conditions at Manhattan, Kansas. Similar in maturity and plant height to ND7532, a tall, late maturing, winterhardy, hard red winter wheat. Stems thicker and produces more seeds per spike than ND7532. Cytologically stable. Winter Annual. Breeding Material. Seed.

PI 549277. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Sears, R.G., Kansas Agr. Exp. Sta., Kansas State University, Manhattan, Kansas, United States; and Agricultural Research Service -- USDA. **remarks:** KS89WGRC9 Wheat Germplasm. Received May 07, 1991.

origin: United States. **origin institute:** Kansas Agr. Exp. Sta., Kansas State University, Manhattan, Kansas 66505. **cultivar:** KS89WGRC9. **pedigree:** ND7532 mutant. **other id:** GP-333. **group:** CSR-WHEAT. **remarks:** Insensitive to endogenous levels of abscisic acid applied at either the seedling or adult stages. Similar in maturity, plant height, and yield to ND7532, a tall, late, winterhardy hard red winter wheat. They have identical gliadin protein patterns as determined by polyacrylamide gel electrophoresis. Winter Annual. Breeding Material. Seed.

PI 549278. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Cox, T.S., Agricultural Research Service -- USDA, Manhattan, Kansas, United States; and Kansas Agr. Exp. Sta.. **remarks:** KS90WGRC10 Wheat Germplasm. Received May 07, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Manhattan, Kansas 66506. **cultivar:** KS90WGRC10. **pedigree:** TAM 107*3/TA 2460. TA 2460 = *Aegilops squarrosa* (Kyoto University no. KU 2084). **other id:** GP-334. **group:** CSR-WHEAT. **remarks:** Contains a dominant gene on chromosome 1D conditioning a high level of resistance to leaf rust in both seedling and adult plants. Hard red winter wheat very similar in phenotype to TAM 107. Winter Annual. Breeding Material. Seed.

PI 549279 to 549281. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Agricultural Research Service -- USDA, Tropical Agriculture Research Station, P.O. Box 70, Mayaguez, Puerto Rico. Received May 07, 1991.

PI 549279 **origin:** Puerto Rico. **cultivar:** PUERTO RICO DE CABALLO(R)C0. **remarks:** Local dent type cultivar. Primary trait for selection was increased yield with secondary selection for root and stalk lodging. Also selected for improved disease tolerance especially major endemic tropical diseases including southern corn rust (*Puccinia polysora*), southern corn leaf spot (*Helminthosporium maydis* Race O), Northern corn leaf spot (*H. turcicum*), corn ear smut (*Ustilago maydis*),. Breeding Material. Seed.

PI 549280 **origin:** Puerto Rico. **cultivar:** PUERTO RICO OHIOS9(R)C0. **pedigree:** From OhS5 and OhS6 consisting of primarily 50% Corn Belt germplasm and 50% exotic material. **remarks:** Dent type population. Primary trait for selection was increased yield with secondary selection for root and stalk lodging. Also selected for improved disease tolerance especially major endemic tropical diseases including southern corn rust (*Puccinia polysora*), southern corn leaf spot (*Helminthosporium maydis* Race O), Northern corn leaf spot (*H. turcicum*), corn ear smut (*Ustilago maydis*),. Breeding Material. Seed.

PI 549281 **origin:** Puerto Rico. **cultivar:** PUERTO RICO OHIOS10(R)C0. **pedigree:** From OhS7 and OhS8 consisting of primarily 50% Corn Belt germplasm and 50% exotic material. **remarks:** Dent type population. Primary trait for selection was increased yield with secondary selection for root and stalk lodging. Also selected for improved disease tolerance especially major endemic tropical diseases including southern corn rust (*Puccinia polysora*), southern corn leaf spot (*Helminthosporium maydis* Race O), Northern corn leaf spot (*H. turcicum*), corn ear smut (*Ustilago maydis*),. Breeding Material. Seed.

PI 549282. *Brassica juncea* (L.) Czernj. & Cosson BRASSICACEAE Mustard

Donated by: Mundel, H.H., National Agricultural Research Center, P.O. NARC, Islamabad, Pakistan; and Canadian Int. Dev. Agency/Agric. Canada. **remarks:** BARD-1 Mustard. Received May 07, 1991.

PI 549282-continued

origin: Pakistan. **origin institute:** National Agricultural Research Center, P.O. NARC, Islamabad.
cultivar: BARD-1. **pedigree:** Mass selection from a line of unknown origin introduced from Canada in 1983. **other id:** BN-1. **other id:** CV-3. **group:** CSR-OTHER OILSEEDS.
remarks: Outyielded all other *B. juncea* entries in the National Uniform Yield Trials in Pakistan. Early flowering (90 days) and average maturity (171 days) contribute to the high yields. Plant height averaged 166cm under rainfed and 196cm under irrigated conditions. Seed weight 1000 seeds per 4.0 and 3.7g respectively. Oil content averaged 40.1%. Moderately susceptible to aphids (*Lipaphis erysimi* and. Facultative Annual. Cultivar. Seed.

PI 549283 to 549295. *Leucaena collinsii* Britton & Rose FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

PI 549283 **donor id:** K 740. **origin:** Guatemala. **local name:** Guash.
collected: 1983. **collector id:** CF1. **locality:** Puerta de Golpe, near San Luis Jilotepeque. **latitude:** 15 deg. 02 min. N. **longitude:** 89 deg. 40 min. W. **elevation:** 480m.
received as: *Leucaena collinsii* subsp. *zacapana*. Wild. Seed.

PI 549284 **donor id:** K 905. **origin:** Mexico. **local name:** Guash.
collected: 1985. **collector id:** 45/85. **locality:** Tuxtla Gutierrez, Narcisco Mendoza. **latitude:** 16 deg. 45 min. N. **longitude:** 93 deg. 07 min. W. **elevation:** 500m.
received as: *Leucaena collinsii* subsp. *collinsii*. Wild. Seed.

PI 549285 **donor id:** K 911. **origin:** Guatemala. **collected:** 1988.
collector id: 88-5. **locality:** 65km north of Guatemala City, south of Alouea Jutiapila. **latitude:** 14 deg. 47 min. N. **longitude:** 90 deg. 47 min. W. **elevation:** 800m.
received as: *Leucaena collinsii* subsp. *zacapana*. Wild. Seed.

PI 549286 **donor id:** K 912. **origin:** Guatemala. **collected:** 1988.
collector id: 88-6. **locality:** 10km past Alouea Jutiapila on CA9. **latitude:** 14 deg. 47 min. N. **longitude:** 90 deg. 04 min. W. **elevation:** 650m. **received as:** *Leucaena collinsii* subsp. *zacapana*. Wild. Seed.

PI 549283 to 549295-continued

- PI 549287 **donor id:** K 913. **origin:** Guatemala. **collected:** 1988.
collector id: 88-7. **locality:** CA9, 10km past El Barreal,
north from K912. **latitude:** 14 deg. 50 min. N.
longitude: 90 deg. 04 min. W. **elevation:** 600m.
received as: *Leucaena collinsii* subsp. zacapana. Wild.
Seed.
- PI 549288 **donor id:** K 914. **origin:** Guatemala. **collected:** 1988.
collector id: 88-8. **locality:** Santa Rosalia on CA9 to
Chiquimula from Zacapa. **latitude:** 14 deg. 56 min. N.
longitude: 89 deg. 31 min. W. **elevation:** 225m.
received as: *Leucaena collinsii* subsp. zacapana. Wild.
Seed.
- PI 549289 **donor id:** K 915. **origin:** Guatemala. **collected:** 1988.
collector id: 88-9. **locality:** Zacapa to Chiquimula road,
3km past K914. **latitude:** 14 deg. 55 min. N. **longitude:**
89 deg. 31 min. W. **elevation:** 460m. **received as:**
Leucaena collinsii subsp. zacapana. Wild. Seed.
- PI 549290 **donor id:** K 917. **origin:** Guatemala. **collected:** 1988.
collector id: 88-1. **locality:** 4km west of Ipala on
Highway 18. **latitude:** 14 deg. 36 min. N. **longitude:** 89
deg. 40 min. W. **elevation:** 750m. **received as:** *Leucaena*
collinsii subsp. zacapana. Wild. Seed.
- PI 549291 **donor id:** K 966. **origin:** Guatemala. **collected:** 1989.
collector id: P5. **locality:** En route to El Progreso on
CA9 Highway. **latitude:** 14 deg. 53 min. N. **longitude:**
90 deg. 05 min. W. **received as:** *Leucaena collinsii*
subsp. zacapana. Wild. Seed.
- PI 549292 **donor id:** K 968. **origin:** Guatemala. **collected:** 1989.
collector id: P7. **locality:** Just past Teculután, at
129km marker on CA9 Highway. **latitude:** 14 deg. 59 min.
N. **longitude:** 89 deg. 43 min. W. **received as:** *Leucaena*
collinsii subsp. zacapana. Wild. Seed.
- PI 549293 **donor id:** K 972. **origin:** Guatemala. **collected:** 1989.
collector id: P12. **locality:** 12km from Chiquimula to
Quetzaltepeque on CA10 Highway. **latitude:** 14 deg. 46
min. N. **longitude:** 89 deg. 32 min. W. **received as:**
Leucaena collinsii subsp. zacapana. Wild. Seed.
- PI 549294 **donor id:** K 975. **origin:** Guatemala. **collected:** 1989.
collector id: P15. **locality:** On the way to Ipala, on
highway, 22km from CA10 Highway. **latitude:** 14 deg. 37
min. N. **longitude:** 89 deg. 36 min. W. **received as:**
Leucaena collinsii subsp. zacapana. Wild. Seed.

PI 549283 to 549295-continued

PI 549295 **donor id:** K 995. **origin:** Guatemala. **collected:** 1989.
collector id: P38. **locality:** 13km from intersection of
CA14 and CA9 on CA14. **latitude:** 14 deg. 54 min. N.
longitude: 90 deg. 07 min. W. **received as:** *Leucaena*
collinsii subsp. *zacapana*. Wild. Seed.

PI 549296 to 549323. *Leucaena diversifolia* (Schldl.) Benth. FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University
of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
remarks: K numbers with ending letter 'b' indicate bulk samples.
Received October 22, 1990.

PI 549296 **donor id:** K 399. **origin:** Cameroon. **collected:** 1976.
locality: North of 'Koupa Menke, Bamoun. **remarks:**
Diploid. Wild. Seed.

PI 549297 **donor id:** K 775. **origin:** Mexico. **collected:** 1985.
collector id: 85-5. **locality:** Highway 125, 8km north of
Coscomatepec. **latitude:** 19 deg. 07 min. N. **longitude:**
97 deg. 03 min. W. **elevation:** 1525m. **remarks:**
Tetraploid. Wild. Seed.

PI 549298 **donor id:** K 776. **origin:** Mexico. **collected:** 1985.
collector id: 85-6. **locality:** Fortin des Flores.
latitude: 18 deg. 54 min. N. **longitude:** 97 deg. 00 min.
W. **elevation:** 1130m. **remarks:** Tetraploid. Wild. Seed.

PI 549299 **donor id:** K 782b. **origin:** Mexico. **collected:** 1985.
collector id: 85-1. **locality:** 2km east of Ixtaczquitlan.
latitude: 18 deg. 52 min. N. **longitude:** 97 deg. 03 min.
W. **elevation:** 1175m. **remarks:** Tetraploid. Bulk sample
of K 782 and K 783. Wild. Seed.

PI 549300 **donor id:** K 786. **origin:** Mexico. **collected:** 1985.
collector id: 85-1. **locality:** 3km west of Ixtaczquitlan.
latitude: 18 deg. 52 min. N. **longitude:** 97 deg. 04 min.
W. **elevation:** 1175m. **remarks:** Tetraploid. Wild. Seed.

PI 549301 **donor id:** K 789. **origin:** Mexico. **collected:** 1985.
collector id: 85-2. **locality:** 2km east of Cuantlapan.
latitude: 18 deg. 52 min. N. **longitude:** 96 deg. 55 min.
W. **elevation:** 775m. **remarks:** Tetraploid. Wild. Seed.

PI 549302 **donor id:** K 790. **origin:** Mexico. **collected:** 1985.
collector id: 85-2. **locality:** 4km east of Cuantlapan.
latitude: 18 deg. 52 min. N. **longitude:** 96 deg. 55 min.
W. **elevation:** 775m. **remarks:** Tetraploid. Wild. Seed.

PI 549296 to 549323-continued

- PI 549303 **donor id:** K 791. **origin:** Mexico. **collected:** 1985.
collector id: 85-2. **locality:** 5km north of Cordoba, on
Chocoman Road. **latitude:** 18 deg. 54 min. N. **longitude:**
96 deg. 55 min. W. **elevation:** 850m. **remarks:**
Tetraploid. Wild. Seed.
- PI 549304 **donor id:** K 794b. **origin:** Mexico. **collected:** 1985.
collector id: 85-2. **locality:** 2km west of Xalapa,
National Institute for Research in Biology. **latitude:** 19
deg. 33 min. N. **longitude:** 96 deg. 56 min. W.
elevation: 1525m. **remarks:** Tetraploid. Bulk sample of K
794, K 795, and K 796. Wild. Seed.
- PI 549305 **donor id:** K 797. **origin:** Mexico. **collected:** 1985.
collector id: 85-2. **locality:** 4km south of Xalapa, on
Teocelo Road. **latitude:** 19 deg. 35 min. N. **longitude:**
96 deg. 55 min. W. **elevation:** 1400m. **remarks:**
Tetraploid. Wild. Seed.
- PI 549306 **donor id:** K 798. **origin:** Mexico. **collected:** 1985.
collector id: 85-3. **locality:** 2km north of Teocelo, 10km
south of Coatepec, Rio Chico Village. **latitude:** 19 deg.
24 min. N. **longitude:** 96 deg. 57 min. W. **elevation:**
1200m. **remarks:** Tetraploid. Wild. Seed.
- PI 549307 **donor id:** K 802. **origin:** Mexico. **collected:** 1985.
collector id: 85-3. **locality:** 8km east of Tuzumapan.
latitude: 19 deg. 23 min. N. **longitude:** 96 deg. 57 min.
W. **elevation:** 1200m. **remarks:** Tetraploid. Wild. Seed.
- PI 549308 **donor id:** K 821. **origin:** Mexico. **collected:** 1985.
collector id: 85-5. **locality:** Monte Alban ruins, 10km
west of Oaxaca. **latitude:** 17 deg. 05 min. N. **longitude:**
96 deg. 55 min. W. **elevation:** 2475m. **remarks:** Diploid.
Wild. Seed.
- PI 549309 **donor id:** K 822. **origin:** Mexico. **collected:** 1985.
collector id: 85-5. **locality:** 7km west of Oaxaca,
Highway 175 on way to Tuxtepec. **latitude:** 17 deg. 05
min. N. **longitude:** 96 deg. 56 min. W. **elevation:**
2500m. **remarks:** Diploid. Wild. Seed.
- PI 549310 **donor id:** K 823. **origin:** Mexico. **collected:** 1985.
collector id: 85-5. **locality:** 3km south of Guelatao de
Juarez, 25km north northeast of Oaxaac. **latitude:** 17
deg. 20 min. N. **longitude:** 96 deg. 26 min. W.
elevation: 2600m. **remarks:** Diploid. Wild. Seed.

549296 to 549323-continued

- PI 549311 donor id: K 907. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: Below Quezaltenango on
Carretera Nacional. latitude: 14 deg. 43 min. N.
longitude: 91 deg. 32 min. W. elevation: 1600m.
remarks: Diploid. Wild. Seed.
- PI 549312 donor id: K 908. origin: Guatemala. collected: 1988.
collector id: 88-2. locality: Below Quezaltenango to
Retalhuleu. latitude: 14 deg. 42 min. N. longitude: 91
deg. 32 min. W. elevation: 1550m. remarks: Diploid.
Wild. Seed.
- PI 549313 donor id: K 909. origin: Guatemala. collected: 1988.
collector id: 88-3. locality: Steep slopes, 12km on CA9,
north of Guatemala City. latitude: 14 deg. 40 min. N.
longitude: 90 deg. 26 min. W. elevation: 1200m.
remarks: Diploid. Wild. Seed.
- PI 549314 donor id: K 910. origin: Guatemala. collected: 1988.
collector id: 88-4. locality: 26km from Guatemala City
on CA9. latitude: 14 deg. 42 min. N. longitude: 90
deg. 25 min. W. elevation: 900m. remarks: Diploid.
Wild. Seed.
- PI 549315 donor id: K 918. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: 4km west of San Juan
Jilotepeque, Chiquim Highway 18. latitude: 14 deg. 38
min. N. longitude: 89 deg. 47 min. W. elevation:
1000m. remarks: Diploid. Wild. Seed.
- PI 549316 donor id: K 919. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: Past San Juan
Jilotepeque/San Pedro Pinula. latitude: 14 deg. 38 min.
N. longitude: 89 deg. 48 min. W. elevation: 1500m.
remarks: Diploid. Wild. Seed.
- PI 549317 donor id: K 920. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: 3km west past San Pedro
Pinula and San Juan Jilotepe. latitude: 14 deg. 38 min.
N. longitude: 89 deg. 49 min. W. elevation: 1150m.
remarks: Diploid. Wild. Seed.
- PI 549318 donor id: K 926. origin: Guatemala. collected: 1988.
collector id: 88-2. locality: 15km west of Jutiapa, 90km
to Guatemala City. latitude: 14 deg. 17 min. N.
longitude: 89 deg. 59 min. W. elevation: 1200m.
remarks: Diploid. Wild. Seed.

PI 549296 to 549323-continued

- PI 549319 **donor id:** K 927. **origin:** Guatemala. **collected:** 1988.
collector id: 88-2. **locality:** 32km south of Guatemala
City on CA1. **latitude:** 14 deg. 24 min. N. **longitude:**
90 deg. 26 min. W. **elevation:** 1250m. **remarks:** Diploid.
Wild. Seed.
- PI 549320 **donor id:** K 928. **origin:** Guatemala. **collected:** 1988.
collector id: 88-2. **locality:** 12km on CA1 from Guatemala
City (K406). **latitude:** 14 deg. 33 min. N. **longitude:**
90 deg. 29 min. W. **elevation:** 1400m. **remarks:** Diploid.
Wild. Seed.
- PI 549321 **donor id:** K 936. **origin:** Honduras. **collected:** 1988.
collector id: 88-3. **locality:** 10km from Tegu on highway
from K935. **latitude:** 14 deg. 15 min. N. **longitude:** 87
deg. 28 min. W. **elevation:** 1000m. **remarks:** Diploid.
Wild. Seed.
- PI 549322 **donor id:** K 946. **origin:** Mexico. **local name:** Guaje
blanco. **collected:** 1987. **collector id:** 45/8. **locality:**
Corral Falso, 25km southeast of Jalapa to Veracruz.
latitude: 19 deg. 26 min. N. **longitude:** 96 deg. 45 min.
W. **elevation:** 800m. **remarks:** Tetraploid. Wild. Seed.
- PI 549323 **donor id:** K 947. **origin:** Mexico. **local name:** Guaje
blanco. **collected:** 1987. **collector id:** 46/8. **locality:**
El Chico, 5km southeast of Jalapa. **latitude:** 19 deg. 32
min. N. **longitude:** 96 deg. 55 min. W. **elevation:**
1275m. **remarks:** Tetraploid. Wild. Seed.

PI 549324 to 549327. *Leucaena esculenta* (Mocino & Sesse ex DC.) Benth.
FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University
of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
remarks: K numbers with ending letter 'b' indicate bulk samples.
Received October 22, 1990.

- PI 549324 **donor id:** K 686b. **origin:** Mexico. **latitude:** 18 deg. 45
min. N. **longitude:** 99 deg. 15 min. W. **elevation:**
1150m. **remarks:** Collected in 1978-1979. Bulk sample of K
686, K 689, K 690, K 691 and K 695. Wild. Seed.
- PI 549325 **donor id:** K 948. **origin:** Mexico. **local name:** Guaje
Rojo. **collected:** 1987. **collector id:** 47/87. **locality:**
San Martin Pachivia, 20km east of Teloloapan. **latitude:**
18 deg. 18 min. N. **longitude:** 99 deg. 45 min. W.
elevation: 1550m. Wild. Seed.

PI 549324 to 549327-continued

PI 549326 **donor id:** K 949. **origin:** Mexico. **local name:** Guaje Rojo. **collected:** 1987. **collector id:** 48/87. **locality:** Tiringucha, 18km north of Huetamo. **latitude:** 18 deg. 38 min. N. **longitude:** 100 deg. 48 min. W. **elevation:** 600m. Wild. Seed.

PI 549327 **donor id:** K 950. **origin:** Mexico. **collected:** 1987. **collector id:** 49/87. **locality:** Mezcala, 50m south of Iguala. **latitude:** 17 deg. 51 min. N. **longitude:** 99 deg. 40 min. W. **elevation:** 650m. **received as:** *Leucaena esculenta* subsp. *matudae*. Wild. Seed.

PI 549328 to 549334. *Leucaena greggii* S. Watson FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
remarks: K numbers with ending 'b' indicate bulk samples. Received October 22, 1990.

PI 549328 **donor id:** K 854. **origin:** Mexico. **local name:** Guajillo. **collected:** 1985. **collector id:** VS85. **locality:** Galeana-Linares Road, at 61km marker. **latitude:** 24 deg. 40 min. N. **longitude:** 99 deg. 55 min. W. **elevation:** 1830m. Wild. Seed.

PI 549329 **donor id:** K 855. **origin:** Mexico. **collected:** 1985. **collector id:** VS85. **locality:** 4km north of Galeana on road to Rayones. **latitude:** 24 deg. 50 min. N. **longitude:** 100 deg. 05 min. W. **elevation:** 1830m. Wild. Seed.

PI 549330 **donor id:** K 856b. **origin:** Mexico. **collected:** 1985. **collector id:** VS85. **locality:** 7km from Galeana on road to Rayones. **latitude:** 24 deg. 55 min. N. **longitude:** 100 deg. 05 min. W. **elevation:** 1800m. **remarks:** Bulk sample of K 856 and K 857. Wild. Seed.

PI 549331 **donor id:** K 858. **origin:** Mexico. **collected:** 1985. **collector id:** VS85. **locality:** 7km southeast of Saltillo on Highway 57. **latitude:** 25 deg. 25 min. N. **longitude:** 101 deg. 00 min. W. **elevation:** 1800m. Wild. Seed.

PI 549332 **donor id:** K 859. **origin:** Mexico. **collected:** 1985. **collector id:** VS85. **locality:** 7km southeast of Saltillo on Highway 57. **latitude:** 24 deg. 50 min. N. **longitude:** 100 deg. 05 min. W. **elevation:** 1800m. Wild. Seed.

PI 549333 **donor id:** K 862. **origin:** Mexico. **collected:** 1985. **collector id:** VS85. **locality:** Highway 40, Canon de Los Cortinas. **latitude:** 25 deg. 45 min. N. **longitude:** 100 deg. 50 min. W. **elevation:** 1830m. Wild. Seed.

PI 549328 to 549334-continued

PI 549334 donor id: K 956. origin: Mexico. local name: Guajillo.
collected: 1987. collector id: 82/8. locality: El
Barrial, 60m west of Linares. latitude: 24 deg. 53 min.
N. longitude: 100 deg. 01 min. W. elevation: 1550m.
Wild. Seed.

PI 549335 to 549337. *Leucaena* hybrid FABACEAE *Leucaena*

Donated by: Brewbaker, J.L., Department of Horticulture, University
of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

PI 549335 donor id: K 340. origin: United States. pedigree: *L.*
pulverulenta/*L. leucocephala*. collected: 1972.
locality: Waimanalo Research Station, Oahu. latitude: 21
deg. 21 min. N. longitude: 157 deg. 42 min. W. Breeding
Material. Seed.

PI 549336 donor id: K 743. origin: United States. pedigree: *L.*
diversifolia (K 156)/*L. leucocephala* (K 8). collected:
1984. locality: Waimanalo Research Station, Oahu.
latitude: 21 deg. 21 min. N. longitude: 157 deg. 42 min.
W. Breeding Material. Seed.

PI 549337 donor id: K 788. origin: Mexico. pedigree: *Leucaena*
diversifolia (K 156)/*L. leucocephala* (K 8). collected:
1985. collector id: 85-2. locality: 4km west of Fortin,
Cuantlapan. latitude: 18 deg. 50 min. N. longitude: 97
deg. 00 min. W. elevation: 1175m. remarks: Natural
hybrid. Wild. Seed.

PI 549338 to 549345. *Leucaena lanceolata* S. Watson FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University
of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
remarks: K numbers ending with 'b' indicate bulk samples. Received
October 22, 1990.

PI 549338 donor id: K 381. origin: Mexico. collected: 1977.
collector id: 77-3. locality: Between Juchitan and
Tehuantepec. latitude: 16 deg. 21 min. N. longitude:
95 deg. 09 min. W. elevation: 90m. Wild. Seed.

PI 549339 donor id: K 384. origin: Mexico. collected: 1977.
collector id: 77-4. locality: 20km east of Juchitan, on
road to San Matias Romero. latitude: 16 deg. 35 min. N.
longitude: 94 deg. 57 min. W. elevation: 150m. Wild.
Seed.

PI 549338 to 549345-continued

- PI 549340 donor id: K 385. origin: Mexico. collected: 1977.
collector id: 77-4. locality: 20km plus east of
Juchitan. latitude: 16 deg. 36 min. N. longitude: 94
deg. 57 min. W. elevation: 150m. Wild. Seed.
- PI 549341 donor id: K 393. origin: Mexico. collected: 1977.
collector id: 77-5. locality: 15km south of San Matias
Romero. latitude: 16 deg. 44 min. N. longitude: 95
deg. 00 min. W. elevation: 200m. Wild. Seed.
- PI 549342 donor id: K 401. origin: Mexico. collected: 1977.
locality: Ejido La Union, 60km north of Zihuatenejo.
latitude: 17 deg. 58 min. N. longitude: 101 deg. 49 min.
W. elevation: 50m. Wild. Seed.
- PI 549343 donor id: K 772b. origin: Mexico. collected: 1985.
collector id: 85-2, 85-3. locality: 2km southwest of
Paso de Ovejas on Highway 140. latitude: 19 deg. 15 min.
N. longitude: 96 deg. 25 min. W. elevation: 100m.
remarks: Bulk sample of K 772 and K 773. Wild. Seed.
- PI 549344 donor id: K 774. origin: Mexico. collected: 1985.
collector id: 85-4. locality: 8km northeast of Paso de
Ovejas on Highway 140. latitude: 19 deg. 15 min. N.
longitude: 96 deg. 25 min. W. elevation: 100m. Wild.
Seed.
- PI 549345 donor id: K 952. origin: Mexico. local name: Guaje.
collected: 1987. collector id: 51/87. locality: Puerto
Angel, 50km coast stretch from east to west. latitude:
15 deg. 40 min. N. longitude: 96 deg. 30 min. W.
elevation: 50m. received as: *Leucaena lanceolata* subsp.
sousae. Wild. Seed.

PI 549346 to 549420. *Leucaena leucocephala* (Lam.) De Wit FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University
of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.

remarks: K numbers ending with 'b' indicate bulk samples. Received
October 22, 1990.

- PI 549346 donor id: K 109. origin: Puerto Rico. collected: 1964.
collector id: BN 12. latitude: 18 deg. 25 min. N.
longitude: 66 deg. 04 min. W. Wild. Seed.
- PI 549347 donor id: K 120. origin: Argentina. collected: 1967.
locality: Tucuman Experiment Station. Cultivated. Seed.
- PI 549348 donor id: K 122. origin: Puerto Rico. collected: 1967.
locality: Ricon, near Mayaguez. latitude: 18 deg. 03
min. N. longitude: 66 deg. 33 min. W. Wild. Seed.

PI 549346 to 549420-continued

- PI 549349 donor id: K 279. origin: United States. collected: 1968. locality: Barking Sands, Kauai. elevation: 10m. remarks: Common type. Cultivated. Seed.
- PI 549350 donor id: K 281. origin: United States. collected: 1968. locality: Sunset Beach, Oahu. elevation: 10m. remarks: Common type. Cultivated. Seed.
- PI 549351 donor id: K 313. origin: Thailand. collected: 1967. locality: 20km south of Pak Chong. elevation: 200m. remarks: Common type. Cultivated. Seed.
- PI 549352 donor id: K 314b. origin: Thailand. collected: 1967. locality: 16.09km south of Chonburi. remarks: Bulk sample of K 314 and K 315. Cultivated. Seed.
- PI 549353 donor id: K 316. origin: Thailand. collected: 1967. locality: Pathaya. elevation: 10m. remarks: Common type. Cultivated. Seed.
- PI 549354 donor id: K 317. origin: Thailand. collected: 1967. locality: Ayuthaya. elevation: 20m. remarks: Common type. Cultivated. Seed.
- PI 549355 donor id: K 318. origin: Thailand. collected: 1967. locality: Bangkok, Kasetsart University Campus. elevation: 100m. remarks: Giant type. Cultivated. Seed.
- PI 549356 donor id: K 319. origin: Thailand. collected: 1967. locality: 30km west of Sattahip. remarks: Common type. Cultivated. Seed.
- PI 549357 donor id: K 320. origin: Thailand. collected: 1968. locality: Bangkok, Soi 53, Sukhumvit. remarks: Common type. Cultivated. Seed.
- PI 549358 donor id: K 321. origin: Thailand. collected: 1968. locality: Khon Kaen, Chumbhot. remarks: Common type. received as: *Leucaena leucocephala* common?.. Wild. Seed.
- PI 549359 donor id: K 322. origin: Thailand. collected: 1968. locality: Khon Kaen, Chumbhot. remarks: Common type. Cultivated. Seed.
- PI 549360 donor id: K 323. origin: Thailand. collected: 1968. locality: 38km north of Korat. remarks: Common type. Cultivated. Seed.
- PI 549361 donor id: K 324. origin: Thailand. collected: 1968. locality: Bangkok, Thonburi. Cultivated. Seed.

PI 549346 to 549420-continued

- PI 549362 donor id: K 325. origin: Thailand. collected: 1968.
locality: Near bridge over River Kwae. Cultivated.
Seed.
- PI 549363 donor id: K 326. origin: Thailand. collected: 1968.
locality: Chiang Mai. Cultivated. Seed.
- PI 549364 donor id: K 329. origin: Honduras. locality: Park near
bank in Juticalpa. latitude: 14 deg. 42 min. N.
longitude: 86 deg. 15 min. W. elevation: 450m.
remarks: Giant type. Wild. Seed.
- PI 549365 donor id: K 330. origin: Nicaragua. collected: 1968.
locality: 12km marker on Sabana Grande to La Calara road.
latitude: 11 deg. 53 min. N. longitude: 85 deg. 57 min.
W. elevation: 100m. Wild. Seed.
- PI 549366 donor id: K 331. origin: Honduras. collected: 1968.
locality: 2km north of Comayagua on road to Manzanilla.
latitude: 14 deg. 26 min. N. longitude: 87 deg. 37 min.
W. elevation: 650m. Wild. Seed.
- PI 549367 donor id: K 332. origin: Nicaragua. collected: 1968.
locality: Sabana Grande Road to La Calera. latitude: 11
deg. 53 min. N. longitude: 85 deg. 57 min. W.
elevation: 120m. remarks: Common type. Wild. Seed.
- PI 549368 donor id: K 344. origin: Mexico. collected: 1977.
collector id: 77-1. locality: 30km east of Cordoba.
latitude: 18 deg. 46 min. N. longitude: 96 deg. 42 min.
W. elevation: 325m. Wild. Seed.
- PI 549369 donor id: K 345. origin: Mexico. collected: 1977.
collector id: 77-2. locality: 25km east of Cordoba.
latitude: 18 deg. 47 min. N. longitude: 96 deg. 45 min.
W. elevation: 400m. Wild. Seed.
- PI 549370 donor id: K 348. origin: Mexico. collected: 1977.
collector id: 77-5. locality: Tinaja. latitude: 18 deg.
46 min. N. longitude: 96 deg. 28 min. W. elevation:
125m. remarks: Common type. Wild. Seed.
- PI 549371 donor id: K 350. origin: Mexico. collected: 1977.
collector id: 77-7. locality: Valle Nacional. latitude:
17 deg. 47 min. N. longitude: 96 deg. 19 min. W.
elevation: 300m. remarks: Common type. Wild. Seed.
- PI 549372 donor id: K 351. origin: Mexico. collected: 1977.
collector id: 77-8. locality: 4.8km east of San Juan,
Bautista, Tuxtepec. latitude: 18 deg. 10 min. N.
longitude: 96 deg. 07 min. W. elevation: 110m.
remarks: Giant type. Wild. Seed.

PI 549346 to 549420-continued

- PI 549373 donor id: K 352b. origin: Mexico. collected: 1977.
collector id: 77/9. locality: Escercega/Champton.
latitude: 19 deg. 05 min. N. longitude: 90 deg. 43 min.
W. elevation: 05-50m. remarks: Common type. Bulk sample
of K 352, K 358, K 359, K 360, K 361, K 363, and K 364.
Wild. Seed.
- PI 549374 donor id: K 362. origin: Mexico. collected: 1977.
collector id: 77-2. locality: Campeche. latitude: 19
deg. 51 min. N. longitude: 90 deg. 32 min. W.
elevation: 15m. remarks: Probably giant type. Wild.
Seed.
- PI 549375 donor id: K 365. origin: Mexico. collected: 1977.
collector id: 77-2. locality: Kabah ruins. latitude: 20
deg. 20 min. N. longitude: 89 deg. 40 min. W.
elevation: 75m. remarks: Common type. Wild. Seed.
- PI 549376 donor id: K 366. origin: Mexico. collected: 1977.
collector id: 77-2. locality: CIAPY (Centro Inv. Agric.
Peninsule Yuc). latitude: 20 deg. 58 min. N. longitude:
89 deg. 37 min. W. elevation: 30m. Wild. Seed.
- PI 549377 donor id: K 367. origin: Mexico. collected: 1977.
collector id: 77-2. locality: 20km east of Merida.
latitude: 20 deg. 54 min. N. longitude: 89 deg. 25 min.
W. elevation: 30m. Wild. Seed.
- PI 549378 donor id: K 368. origin: Mexico. collected: 1977.
collector id: 77-2. locality: 20km west of Chichen Itza.
latitude: 20 deg. 41 min. N. longitude: 88 deg. 38 min.
W. elevation: 50m. Wild. Seed.
- PI 549379 donor id: K 369. origin: Mexico. collected: 1977.
collector id: 77-2. locality: Compeche. latitude: 19
deg. 51 min. N. longitude: 90 deg. 32 min. W.
elevation: 10m. Wild. Seed.
- PI 549380 donor id: K 370. origin: Mexico. collected: 1977.
collector id: 77-2. locality: Chichen-Itza. latitude:
20 deg. 40 min. N. longitude: 88 deg. 34 min. W.
elevation: 50m. Wild. Seed.
- PI 549381 donor id: K 371. origin: Mexico. collected: 1977.
collector id: 77-2. locality: 5km north of Cancun.
latitude: 21 deg. 09 min. N. longitude: 86 deg. 45 min.
W. elevation: 5m. Wild. Seed.

PI 549346 to 549420-continued

- PI 549382 donor id: K 372b. origin: Mexico. collected: 1977.
collector id: 77-3. locality: North of Tulum. latitude:
20 deg. 12 min. N. longitude: 87 deg. 26 min. W.
elevation: 5m. remarks: Common type. Bulk sample of K
372 and K 373. Wild. Seed.
- PI 549383 donor id: K 374. origin: Belize. collected: 1977.
collector id: 77-3. locality: Belize City. latitude: 17
deg. 30 min. N. longitude: 88 deg. 12 min. W.
elevation: 5m. remarks: Common type. Wild. Seed.
- PI 549384 donor id: K 375. origin: El Salvador. collected: 1977.
collector id: 77-3. locality: Santa Tecla (Nueva San
Salvador), Zapotetan Valley. latitude: 13 deg. 42 min.
N. longitude: 89 deg. 19 min. W. elevation: 900m.
remarks: Common type. Wild. Seed.
- PI 549385 donor id: K 378. origin: Mexico. collected: 1977.
collector id: 77-3. locality: Totolapan. latitude: 16
deg. 40 min. N. longitude: 96 deg. 18 min. W.
elevation: 775m. remarks: Probably giant type. Wild.
Seed.
- PI 549386 donor id: K 382. origin: Mexico. collected: 1977.
collector id: 77-4. locality: Juchitan. latitude: 16
deg. 35 min. N. longitude: 95 deg. 00 min. W.
elevation: 50m. remarks: Probably giant type. Wild.
Seed.
- PI 549387 donor id: K 383. origin: Mexico. collected: 1977.
collector id: 77-4. locality: East of Juchitan.
latitude: 16 deg. 31 min. N. longitude: 94 deg. 57 min.
W. elevation: 75m. remarks: Giant type. Wild. Seed.
- PI 549388 donor id: K 386. origin: Mexico. collected: 1977.
collector id: 77-4. locality: Totolapan. latitude: 16
deg. 40 min. N. longitude: 96 deg. 18 min. W.
elevation: 800m. remarks: Common type. Wild. Seed.
- PI 549389 donor id: K 387. origin: Mexico. collected: 1977.
collector id: 77-4. locality: 2km west of Chetumal.
latitude: 18 deg. 30 min. N. longitude: 88 deg. 19 min.
W. elevation: 30m. Wild. Seed.
- PI 549390 donor id: K 388. origin: Mexico. collected: 1977.
collector id: 77-4. locality: 3km west of Chetumal.
latitude: 18 deg. 29 min. N. longitude: 88 deg. 20 min.
W. elevation: 30m. Wild. Seed.

PI 549346 to 549420-continued

- PI 549391 donor id: K 389. origin: Mexico. collected: 1977.
collector id: 77-4. locality: 53km South of Acayucan.
latitude: 17 deg. 33 min. N. longitude: 95 deg. 04 min.
W. elevation: 50m. Wild. Seed.
- PI 549392 donor id: K 390. origin: Mexico. collected: 1977.
collector id: 77-4. locality: 9km south of San Mastias
Romero. latitude: 16 deg. 50 min. N. longitude: 95
deg. 03 min. W. elevation: 225m. Wild. Seed.
- PI 549393 donor id: K 392. origin: Mexico. collected: 1977.
collector id: 77-5. locality: 5km south of San Matias
Romero. latitude: 16 deg. 52 min. N. longitude: 95
deg. 02 min. W. elevation: 225m. Wild. Seed.
- PI 549394 donor id: K 394. origin: Mexico. collected: 1977.
collector id: 77-5. locality: 84km east of Tehuantepec.
latitude: 16 deg. 34 min. N. longitude: 94 deg. 38 min.
W. elevation: 120m. Wild. Seed.
- PI 549395 donor id: K 395. origin: Mexico. collected: 1977.
collector id: 77-5. locality: 18km west of Tehuantepec.
latitude: 16 deg. 22 min. N. longitude: 95 deg. 22 min.
W. elevation: 240m. remarks: Giant type. Wild. Seed.
- PI 549396 donor id: K 397. origin: Mexico. collected: 1977.
collector id: 77-5. locality: Yautepec, 135km southeast
of Oaxaca, northeast of Tehuantepec. latitude: 16 deg.
29 min. N. longitude: 95 deg. 55 min. W. elevation:
50m. remarks: Giant type. Wild. Seed.
- PI 549397 donor id: K 400. origin: Cameroon. collected: 1976.
locality: Bamoun, north of 'Koupa Menke. remarks: Common
type. Cultivated. Seed.
- PI 549398 donor id: K 403. origin: Indonesia. collected: 1976.
locality: Denpasar, Bali. Cultivated. Seed.
- PI 549399 donor id: K 404. origin: Indonesia. collected: 1976.
locality: Tammuong, Kanchanaburi. Cultivated. Seed.
- PI 549400 donor id: K 453. origin: Mexico. collected: 1978.
collector id: 78-4. locality: Tehuantepec. latitude: 16
deg. 20 min. N. longitude: 95 deg. 14 min. W.
elevation: 100m. remarks: Mixed giant and common types.
Wild. Seed.
- PI 549401 donor id: K 499. origin: Mexico. collected: 1979.
locality: Chetumal. latitude: 18 deg. 30 min. N.
longitude: 88 deg. 18 min. W. elevation: 60m. remarks:
Giant type, perhaps some common type. Wild. Seed.

PI 549346 to 549420-continued

- PI 549402 donor id: K 500. origin: Australia. collected: 1979.
locality: Developed by Hutton. Giant type. received as:
Leucaena leucocephala var. peruvian. Cultivated. Seed.
- PI 549403 donor id: K 676. origin: Malaysia. collected: 1980.
locality: U.P.M., Serdang. remarks: Common type.
Cultivated. Seed.
- PI 549404 donor id: K 677. origin: Philippines. collected: 1978.
Cultivated. Seed.
- PI 549405 donor id: K 678. origin: Thailand. collected: 1980.
collector id: 80-3. locality: Pathani, south of Songkla.
remarks: Mixed giant and common types. Cultivated.
Seed.
- PI 549406 donor id: K 698. origin: Philippines. collected: 1981.
Cultivated. Seed.
- PI 549407 donor id: K 724. origin: China. collector id: CP 13.
locality: Hainan Island. Seed.
- PI 549408 donor id: K 739. origin: China. collected: 1981.
locality: Institute of Tropical Crops, Hainan.
Cultivated. Seed.
- PI 549409 donor id: K 742. origin: Honduras. collected: 1981.
locality: Dwyure. latitude: 13 deg. 38 min. N.
longitude: 86 deg. 49 min. W. elevation: 1050m. Wild.
Seed.
- PI 549410 donor id: K 767. origin: Mexico. collected: 1983.
locality: Buena Vista. latitude: 19 deg. 20 min. N.
longitude: 96 deg. 28 min. W. elevation: 50m. Wild.
Seed.
- PI 549411 donor id: K 770. origin: Mexico. collected: 1979.
collector id: ASD8. locality: Todos Santos. latitude:
23 deg. 25 min. N. longitude: 110 deg. 19 min. W.
elevation: 50m. Wild. Seed.
- PI 549412 donor id: K 771. origin: Mexico. collected: 1985.
collector id: JLB8. locality: 22km northwest of Veracruz
on Highway 140. latitude: 19 deg. 20 min. N.
longitude: 96 deg. 15 min. W. elevation: 40m. Wild.
Seed.
- PI 549413 donor id: K 801. origin: Mexico. collected: 1985.
collector id: 85-3. locality: 8km east of Tuzumapan.
latitude: 19 deg. 30 min. N. longitude: 96 deg. 55 min.
W. elevation: 1400m. Wild. Seed.

PI 549346 to 549420-continued

PI 549414 donor id: K 841b. origin: Mexico. collected: 1985.
collector id: 85-7. locality: La Paz. latitude: 24 deg.
20 min. N. longitude: 110 deg. 20 min. W. elevation:
25m. remarks: Bulk sample of K 841 and K 842. Wild.
Seed.

PI 549415 donor id: K 843. origin: Mexico. collected: 1985.
collector id: 85-7. locality: Miraflores, 100km south of
La Paz. latitude: 23 deg. 25 min. N. longitude: 109
deg. 40 min. W. elevation: 225m. Wild. Seed.

PI 549416 donor id: K 861. origin: Mexico. collected: 1985.
collector id: VS85. locality: 2km from Saltillo airport.
latitude: 25 deg. 30 min. N. longitude: 100 deg. 55 min.
W. elevation: 450m. remarks: Giant type. Wild. Seed.

PI 549417 donor id: K 865. origin: Mexico. collected: 1985.
collector id: VS85. locality: El Hojasen on Villaldalma
Road. latitude: 26 deg. 12 min. N. longitude: 100 deg.
28 min. W. elevation: 640m. Wild. Seed.

PI 549418 donor id: K 876. origin: Australia. collected: 1985.
locality: North of Mackay. latitude: 21 deg. 00 min. S.
longitude: 149 deg. 00 min. E. elevation: 100m. Wild.
Seed.

PI 549419 donor id: K 921. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: San Pedro Pinula.
latitude: 14 deg. 40 min. N. longitude: 89 deg. 51 min.
W. elevation: 1050m. remarks: Giant type. Wild. Seed.

PI 549420 donor id: K 929. origin: Guatemala. collected: 1988.
collector id: 88-2. locality: 75km north from Guatemala
City on CA9 past Sanarate. latitude: 14 deg. 48 min. N.
longitude: 90 deg. 10 min. W. elevation: 850m.
remarks: Giant type. Wild. Seed.

PI 549421 to 549422. *Leucaena macrophylla* Benth. FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University
of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

PI 549421 donor id: K 836. origin: Mexico. collected: 1985.
collector id: 85-6. locality: Oaxtepec, in IMSS vacation
compound. latitude: 18 deg. 54 min. N. longitude: 99
deg. 58 min. W. elevation: 1400m. Wild. Seed.

PI 549421 to 549422-continued

PI 549422 **donor id:** K 902. **origin:** Mexico. **local name:** Guaje.
collected: 1985. **collector id:** 47-8. **locality:** Rio Grande, San Isidro Llano Grande. **latitude:** 15 deg. 59 min. N. **longitude:** 97 deg. 16 min. W. **elevation:** 43m. **received as:** *Leucaena macrophylla* subsp. *nelsonii*. Wild. Seed.

PI 549423 to 549427. *Leucaena pallida* Britton & Rose FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

PI 549423 **donor id:** K 376. **origin:** Mexico. **collected:** 1977.
collector id: 77-3. **locality:** 10km north of Oaxasca. **latitude:** 17 deg. 08 min. N. **longitude:** 96 deg. 46 min. W. **elevation:** 1675m. Wild. Seed.

PI 549424 **donor id:** K 818. **origin:** Mexico. **collected:** 1985.
collector id: 85-5. **locality:** San Juan Bautista Guelache, 25km north of Oaxaca. **latitude:** 17 deg. 21 min. N. **longitude:** 96 deg. 50 min. W. **elevation:** 1925m. Wild. Seed.

PI 549425 **donor id:** K 819. **origin:** Mexico. **collected:** 1985.
collector id: 85-5. **locality:** San Juan Bautista Guelache, 25km north of Oaxaca. **latitude:** 17 deg. 21 min. N. **longitude:** 96 deg. 50 min. W. **elevation:** 1925m. Wild. Seed.

PI 549426 **donor id:** K 820. **origin:** Mexico. **collected:** 1985.
collector id: 85-5. **locality:** 1km from K818, San Juan Bautista. **latitude:** 17 deg. 21 min. N. **longitude:** 96 deg. 50 min. W. **elevation:** 1925m. Wild. Seed.

PI 549427 **donor id:** K 953. **origin:** Mexico. **collected:** 1987.
collector id: 52-8. **locality:** San Pedro Chapulco, 20km north of Tehuacan. **latitude:** 18 deg. 38 min. N. **longitude:** 97 deg. 24 min. W. **elevation:** 2100m. Wild. Seed.

PI 549428 to 549430. *Leucaena pulverulenta* (Schldl.) Benth. FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

PI 549428 **donor id:** K 881. **origin:** Australia. **collected:** 1984.
locality: Davis Lab, Townsville. Wild. Seed.

PI 549428 to 549430-continued

PI 549429 **donor id:** K 957. **origin:** Mexico. **local name:** Guajillo.
collected: 1987. **collector id:** 83-8. **locality:** Altas
Cumbres, 25-35km southwest of Ciudad Victo. **latitude:** 23
deg. 36 min. N. **longitude:** 99 deg. 14 min. W.
elevation: 1250m. Wild. Seed.

PI 549430 **donor id:** K 958. **origin:** United States. **collected:**
1987. **collector id:** 84-8. Wild. Seed.

PI 549431 to 549432. *Leucaena retusa* Benth. FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University
of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

PI 549431 **donor id:** K 899. **origin:** United States. **collected:**
1986. **locality:** 7km east of Sanderson, on Highway 90.
latitude: 29 deg. 44 min. N. **longitude:** 102 deg. 43 min.
W. **remarks:** Collected from Las Cruces, New Mexico.
Wild. Seed.

PI 549432 **donor id:** K 900. **origin:** United States. **locality:** 10km
west of Ft. Davis on Highway 118. **latitude:** 30 deg. 37
min. N. **longitude:** 104 deg. 03 min. W. **remarks:**
Collected from Las Cruces, New Mexico. Wild. Seed.

PI 549433. *Leucaena shannonii* subsp. *salvadorensis* (Standley ex Britton
& Rose) Zarate FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University
of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

donor id: K 904. **origin:** Honduras. **collected:** 1986.
collector id: 17-8. **locality:** La Garita, 25km northwest
of Choluteca. **latitude:** 13 deg. 26 min. N. **longitude:**
87 deg. 11 min. E. **elevation:** 600m. **received as:**
Leucaena salvadorensis. Wild. Seed.

PI 549434 to 549443. *Leucaena shannonii* J. D. Smith subsp. *shannonii*
FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University
of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

PI 549434 **donor id:** K 405. **origin:** United States. **collected:**
1977. **locality:** Field Z, Waimanalo, Oahu. Wild. Seed.

PI 549434 to 549443-continued

- PI 549435 donor id: K 473. origin: Mexico. collected: 1978.
collector id: 78-7. locality: 3km southwest of
Cintalapa. latitude: 16 deg. 39 min. N. longitude: 93
deg. 46 min. W. elevation: 750m. Wild. Seed.
- PI 549436 donor id: K 741. origin: Honduras. collected: 1983.
locality: Upper Comayagua Valley. latitude: 14 deg. 22
min. N. longitude: 87 deg. 39 min. W. elevation: 650m.
Wild. Seed.
- PI 549437 donor id: K 769. origin: Guatemala. collected: 1982.
locality: El Rincon town, off main road near Ipala.
latitude: 14 deg. 40 min. N. longitude: 89 deg. 42 min.
W. elevation: 950m. received as: *Leucaena shannonii*
subsp. *magnifica*. Wild. Seed.
- PI 549438 donor id: K 916. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: 3km west of Ipala, on
Highway 18 near military post. latitude: 14 deg. 36 min.
N. longitude: 89 deg. 38 min. W. elevation: 770m.
received as: *Leucaena shannonii* subsp. *magnifica*. Wild.
Seed.
- PI 549439 donor id: K 922. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: Kml31 marker, 4km
southeast of El Progreso on road to Asuncion Mita.
latitude: 14 deg. 20 min. N. longitude: 89 deg. 47 min.
W. elevation: 870m. Wild. Seed.
- PI 549440 donor id: K 923. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: 6km southeast of El
Progreso on road to Asuncion Mita. latitude: 14 deg. 20
min. N. longitude: 89 deg. 46 min. W. elevation: 800m.
Wild. Seed.
- PI 549441 donor id: K 924. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: 5km northeast of Asuncion
Mita on CA1 near El Salvador border. latitude: 14 deg.
22 min. N. longitude: 89 deg. 43 min. W. elevation:
500m. Wild. Seed.
- PI 549442 donor id: K 925. origin: Guatemala. collected: 1988.
collector id: 88-1. locality: 7km west of Jutiapa.
latitude: 14 deg. 16 min. N. longitude: 89 deg. 56 min.
W. elevation: 900m. Wild. Seed.
- PI 549443 donor id: K 954. origin: Mexico. collected: 1987.
collector id: 53-8. locality: Just south of Champoton.
latitude: 19 deg. 20 min. N. longitude: 90 deg. 43 min.
W. elevation: 10m. Wild. Seed.

PI 549444 to 549445. *Leucaena* sp. FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

PI 549444 **donor id:** K 880. **origin:** Costa Rica. **collected:** 1984.
collector id: BLSF. **locality:** La Cruz. **latitude:** 11 deg. 05 min. N. **longitude:** 85 deg. 37 min. W.
elevation: 10m. **received as:** *L. multicapitula*. Wild. Seed.

PI 549445 **donor id:** K 955. **origin:** Panama. **local name:** Frigolillo. **collected:** 1987. **collector id:** 81-87.
locality: Los Santos/Herrere area, 2km west of and 8km southeast of Los Santos. **latitude:** 07 deg. 55 min. N.
longitude: 80 deg. 25 min. W. **elevation:** 30m. **received as:** *L. multicapitula*. Wild. Seed.

PI 549446. *Leucaena trichodes* (Jacq.) Benth. FABACEAE

Donated by: Brewbaker, J.L., Department of Horticulture, University of Hawaii, 3190 Maile Way, Honolulu, Hawaii, United States.
Received October 22, 1990.

donor id: K 903. **origin:** Venezuela. **collected:** 1986.
collector id: 2-86. **locality:** Cuicas. **latitude:** 09 deg. 38 min. N. **longitude:** 70 deg. 18 min. W. **elevation:** 700m. Wild. Seed.

PI 549447. *Phaseolus acutifolius* A. Gray FABACEAE

Donated by: Western Regional PI Station, Washington State University, Room 59, Johnson Hall, Pullman, Washington, United States. Received 1976.

origin: Mexico. Seed.

PI 549448. *Phaseolus coccineus* L. FABACEAE Scarlet runner bean

Donated by: Corneli, Missouri, United States. Received 1961.

origin: United States. **cultivar:** SCARLET RUNNER.
Annual. Cultivar. Seed.

PI 549449. *Phaseolus coccineus* L. FABACEAE Scarlet runner bean

Donated by: Thayer, G., 1669 Ridge Road, Lansing, New York, United States. Received 1985.

PI 549449-continued

origin: United States. **cultivar:** THAYER POLE. Annual.
Cultivar. Seed.

PI 549450 to 549452. Phaseolus coccineus L. FABACEAE Scarlet runner
bean

Donated by: Berrier, B. F., 1407 Grand, Canon City, Colorado, United
States. Received 1985.

PI 549450 **origin:** United States. **cultivar:** DESIREE. Annual.
Cultivar. Seed.

PI 549451 **origin:** United States. **cultivar:** GOLIATH. Annual.
Cultivar. Seed.

PI 549452 **origin:** United States. **cultivar:** WHITE CZAR RUNNER POLE.
Annual. Cultivar. Seed.

PI 549453. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Corneli, Missouri, United States. Received 1960.

origin: United States. **cultivar:** SPECKLED BUTTERPEA.
remarks: Hardiness and productivity good under hot, dry
conditions. Vine 18" tall, bushy, medium dark green. Very
prolific. Pods 3" long, 1/2 inch wide, dark green, thick,
and slightly curved. Seed red speckled with dark carmine,
almost round. 1,808 per pound. Maturity 75 days. Used for
home gardens. Annual. Cultivar. Seed.

PI 549454. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Agricultural Research Service -- USDA, Beltsville,
Maryland, United States. Received 1961.

origin: United States. **cultivar:** THAXTER. **remarks:**
Green seeded baby lima similar to All-green in plant and
pod type. Developed for resistance to downy mildew.
Maturity 68 days. Used use canning and freezing primarily
where downy mildew is a serious problem. Annual.
Cultivar. Seed.

PI 549455 to 549457. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United
States. Received 1970.

PI 549455 to 549457-continued

PI 549455 **origin:** United States. **cultivar:** DOVER BUSH. **pedigree:** Piloy (PI 189403)/Thaxter. **remarks:** Green seeded bush lima resistant to downy mildew strains A and B. Extensive root system which gives drought resistance. Compared to Thaxter on many factors -- plant size, vigor, and size and appearance of pods, processed beans and dry seeds. For yield (in the Middle Atlantic Coastal area) compared to Thaxter and for yield under California drought conditions it is compared to Early Thorogreen and Thaxter. Annual. Cultivar. Seed.

PI 549456 **origin:** United States. **cultivar:** DOVER TUCKER. Annual. Cultivar. Seed.

PI 549457 **origin:** United States. **cultivar:** FORDHOOK 861 CHARTER. Annual. Cultivar. Seed.

PI 549458. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: California Agr. Exp. Sta., California, United States. Received 1963.

origin: United States. **cultivar:** VENTURA. **pedigree:** Single selection from large population that included Lewis and other local varieties in California (purified many times). **remarks:** Native of South America. Cultivated since prehistoric times. Very exacting in climatic requirements and these exist only along the south coast of California in belt rarely more than 10 miles wide. Thick-stemmed, many branched, vine type, with large dull grey, variegated leaflets. Seeds large, flattened, and dull white to gray-green when dry. Maturity 105-130 days in its area of adaptation. Annual. Cultivar. Seed.

PI 549459 to 549470. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Corneli, Missouri, United States. Received 1961.

PI 549459 **origin:** United States. **cultivar:** ALLGREEN. **remarks:** Vine 16" tall, bushy, compact, vigorous and productive. Pods 3-3 1/4" inches long, dark green, broad, flat, slightly curved, and containing 3-4 seeds. Seeds green (both cotyledon and seed coat), flat, excellent flavor. 1,100 per pound. Maturity 65 days. Used mainly for home garden, market, canning and freezing. Distinguished by uniform color. Becoming very popular in the South as a home garden. Annual. Cultivar. Seed.

PI 549459 to 549470-continued

- PI 549460 **origin:** United States. **cultivar:** BIXBY. **pedigree:** Fordhook/Henderson Bush. **remarks:** Heat and drought resistance superior. Nematode tolerance above average. Seed coat and cotyledons white when mature. Pods borne inside as well as at surface of plant. Plants have good bearing surface. Well adapted to the South and SW because of drought resistance and nematode tolerance. Drought resistance provided by roots which have more well developed laterals and large and longer laterals than other. Annual. Cultivar. Seed.
- PI 549461 **origin:** United States. **cultivar:** CHRISTMAS LIMA. **remarks:** Long season pole lima producing extremely large beans in green shell stage. Seeds Christmas colors. Widely used in the South and many other areas including the Pacific NW where it has been more hardy than other types. Vine 7-9" tall. Leaves abundant, narrow and dull medium green. Pods 5-5 1/2" long and slightly curved, large, flat. 3 beans per pod. Seed creamy green field with slightly raised areas of. Annual. Cultivar. Seed.
- PI 549462 **origin:** United States. **cultivar:** DIXIE BUTTERPEA WHITE. **remarks:** White seeded baby lima. Ability to set pods and produce well under high temperatures. Plant 16-22 inches tall, vigorous. Leaves small, medium dark green. Pods 3 1/2 to 4" x 1/2", slightly curved, broad-oval, containing 3-4 seeds. Seed white, plump, small, almost round. Maturity 75 days. Used for home garden and market. Annual. Cultivar. Seed.
- PI 549463 **origin:** United States. **cultivar:** FLORIDA BUTTER. **remarks:** Commonly grown in the South where it adapts itself to adverse seasonal conditions very readily. Used both in green shell and dry stage. Vine 6-8' tall. Leaves glossy, dark green. Yields over a long period of time. Pods 3 to 3 3/4' long, flat and slender, medium green. 3 seeds per pod. Seed has buff field with brownish spots and purplish eye ring. 930 per pound. Maturity 78 days. Used for home. Annual. Cultivar. Seed.
- PI 549464 **origin:** United States. **cultivar:** FORDHOOK 242. **remarks:** Potato type developed for its productivity under adverse conditions. Excellent Fordhook quality. Pods do not retain fresh green color on the market as well as regular Fordhook. Vine 16-20" long, somewhat spreading in growth. Pods 3 1/2 - 4" long, slightly curved, plump. 3-4 seeds per pod. Seed white tinged with green, plump, oval, little smaller than Fordhook. 420 per lb. Maturity 75 days. Used for home. Annual. Cultivar. Seed.

PI 549459 to 549470-continued

- PI 549465 **origin:** United States. **cultivar:** FORDHOOK BUSH.
remarks: Seeds distinct, large, thick, appealing flavor. Often called potato lima. Pods retain fresh green color well on market. Vine 16-20" tall, erect, dark green foliage, vigorous and productive. Pods 4-4 1/2" long, usually straight, broad and plump. 3-4 seeds per pod. Seed white, tinged with green, plump, oval shaped. 320 per pound. Maturity 75 days. Used for home garden, market, shipping,. Annual. Cultivar. Seed.
- PI 549466 **origin:** United States. **cultivar:** HENDERSON BUSH.
remarks: Noted for earliness and uniformity in maturing green shell beans. Vine 16" tall, erect, very uniform. Pods 3-3 1/4" long, slightly curved, broad, flat, dark green. 3-4 seeds per pod. Seed entirely creamy white, small, flat. Fine for dry shelled beans. 1,200 per lb. Maturity 65 days. Used mainly for home garden and market. Most popular baby lima for these uses, though it was formerly a major canning and. Annual. Cultivar. Seed.
- PI 549467 **origin:** United States. **cultivar:** JACKSON WONDER.
remarks: Noted for extreme hardiness and productivity under a wide range of conditions. Vine 16-20" tall, spreading, glossy dark green foliage. Pods 3- 3 1/2" long, somewhat curved, broad, flat, dark green. 3-4 seeds per pod. Seed has buff background splashed with purplish black, flat. 1,050 per pound. Maturity 68 days. Popular variety in the South. Used for home gardens. Annual. Cultivar. Seed.
- PI 549468 **origin:** United States. **cultivar:** KING OF THE GARDEN.
remarks: Production and climbing ability good. Vine 7-9' tall, excellent climber. Foliage medium green. Yields over a long season. Pods 5 1/2 - 6 1/2" long, flat, slightly curved, light green color. 4-5 large beans per pods. Seed all white, thick, flat. 400 per pound. Maturity 88 days. Annual. Cultivar. Seed.
- PI 549469 **origin:** United States. **cultivar:** SIEVA. **remarks:** Small seeded pole lima most popular in the South. Earliest of the pole limas and continues bearing until frost. Vine 9-10" tall, excellent climber, glossy dark green leaves, very heavy yielder. Pods 3 inches long, broad, flat, medium green. 3-4 seeds per pods. Seeds white, small, flat. 1,200 per pound. Maturity 77 days. Used for home gardens. Annual. Cultivar. Seed.

PI 549459 to 549470-continued

PI 549470 **origin:** United States. **cultivar:** THOROGREEN IMPROVED EARLY. **remarks:** Improved strain of original green seeded baby lima. Widely used by canners and freezers because of its productivity and high quality, and the green cotyledon eliminates the white seeds which appear from over-mature pods at the processing stage. Vine 16" tall. Pods 3" long, 3-4 seeds per pod. Seed pale green, small, flat. 1,100 per pound. Maturity 66 days. Used for canning and freezing. Annual. Cultivar. Seed.

PI 549471. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1961.

origin: United States. **cultivar:** FORDHOOK CONCENTRATED. **remarks:** Uniform with pods concentrated both in position and time of maturity. Particularly adapted for use on the Pacific Coast. Color dark green. Pod 3/4" long and 1" wide, broad and plump. Seeds white with greenish tinge. Maturity 71 days. Used for home garden, freezer and market. Annual. Cultivar. Seed.

PI 549472 to 549473. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Vaughan-Jacklin Corporation, 5300 Katrine Avenue, Downer's Grove, Illinois, United States. Received 1961.

PI 549472 **origin:** United States. **cultivar:** HENDERSON BABY. **remarks:** Pods short, flat, containing 3-4 small oval beans. Excellent quality green shell beans. Plant medium size, heavily productive. Maturity 65 days. Used for home gardens. Annual. Cultivar. Seed.

PI 549473 **origin:** United States. **cultivar:** TRIUMPH. **remarks:** Bush type lima. Heavy yield under adverse conditions. Quality fine. Especially suited to freezing and canning. Maturity 72 days. Annual. Cultivar. Seed.

PI 549474. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Corneli, Missouri, United States. Received 1964.

PI 549474-continued

origin: United States. **cultivar:** WILLOW LEAF. **remarks:** Pole type lima. Leaves narrow, willow-like which gives novel appearance, with the advantage of adding resistance to drought and heat. Plant 9-10' tall, excellent climber, and very heavy yielder. Pods approx. 3" long, broad, flat, medium green. 3-4 seeds per pod. Seed white. 1,200 per pound. Maturity 80 days. Used for home gardens. Annual. Cultivar. Seed.

PI 549475 to 549477. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: W. Atlee Burpee Company, Pennsylvania, United States. Received 1961.

PI 549475 **origin:** United States. **cultivar:** BABY FORDHOOK. **remarks:** Bush type, small, plump, green. Thick seeded or potato type considered by many to be better quality than the flat type. Pods 2 3/4" long and 3/4" wide, thick, slightly curved, containing 3 or 4 dark green beans of high quality, close but not crowded in pod. Plants truly bush, only 14" tall, but branchy. Maturity 70 days. Annual. Cultivar. Seed.

PI 549476 **origin:** United States. **cultivar:** BURPEES IMPROVED. **remarks:** Pods produced in clusters of 5 or 6, 4 1/2 to 5 1/2" long, 1 to 1 1/4" broad,, slightly curved and moderately thick, containing 4 or 5 very large, flat-oval beans of highest quality. Seeds white with greenish cast, becoming pale green and meaty at cooking stage. Maturity 75 days. Used for cooking and freezing. Annual. Cultivar. Seed.

PI 549477 **origin:** United States. **cultivar:** POLE LIMA BIG 6. **remarks:** Pole type, large, medium-thick, and tender. Giant pods 6 to 7" long, 1 1/8" wide and almost always contain 6 beans. Plants tall growing, excellent climbers, vigorous, dependable and heavy croppers. Maturity 88 days. Used for fresh use, canning and quick freeze. Annual. Cultivar. Seed.

PI 549478 to 549482. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1961.

PI 549478 to 549482-continued

- PI 549478 **origin:** United States. **cultivar:** CLARKS BUSH. **remarks:** Distinct variety in the baby lima class developed especially for canning and freezing. Good yield producing green beans at all stages of maturity. Plants medium large, bushy, prolific, setting pods in heavy concentration near crown. Dry seeds green to white: 70 per oz. Pod length 2 3/4" and width 3/4". Maturity 67 days. Annual. Cultivar. Seed.
- PI 549479 **origin:** United States. **cultivar:** CONCENTRATED FORDHOOK. **remarks:** Distinctive variety primarily intended for processing, particularly for the Pacific Coast. Plants compact, very productive, bearing a heavy set of pods concentrated in maturity and position. Beans thick, flat and of excellent flavor. Seeds white, tinged with green. 30 per oz. Pods 3 3/4" long and 1" wide. Maturity 75 days. Annual. Cultivar. Seed.
- PI 549480 **origin:** United States. **cultivar:** EARLY THOROGREEN. **remarks:** Important green seeded variety in the baby lima group, primarily for processing, widely adapted and very prolific. Produces high percentages of green beans at all stages of maturity. Plants spreading. Pods borne in clusters at the end of spurs. Beans small, flat, holding green color well through later stages of maturity. Dry seed green to white. 70 per oz. Pod 2 3/4" long and 3/4" wide. Maturity 66 days. Annual. Cultivar. Seed.
- PI 549481 **origin:** United States. **cultivar:** NEMAGREEN. **remarks:** Nematode resistant baby lima in the green seeded class for processing and fresh market. Developed by USDA for nematode-infested soils. Outyields some susceptible varieties when nematodes are a problem. Pods 3" x 3/4" long. Bean small, flat, pale green color Maturity 70 days. Annual. Cultivar. Seed.
- PI 549482 **origin:** United States. **cultivar:** WASATCH. **remarks:** High quality, high yielding green seeded lima from Utah that rates high in canning and freezing tests. Plants dwarf, 12-15 inches tall. Pods heavy, containing 2-4 plump, medium sized pale green beans. Annual. Cultivar. Seed.

PI 549483. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Kellogg Seed Company, California, United States.
Received 1961.

PI 549483-continued

origin: United States. **cultivar:** BURPEES IMPROVED BUSH.
remarks: Improved over original Burpee Bush Lima. Plant 16-22" tall, very productive, dark glossy green foliage. Pods 4 1/2 to 5" long, broad-flat. Seeds large, thick, greenish white. 4 seeds per pod. 530 per pound. Maturity 75 days. Used for home garden and market. Annual. Cultivar. Seed.

PI 549484. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Louisiana Agr. Exp. Sta., Louisiana, United States.
Received 1963.

origin: United States. **cultivar:** EASY SHELL. **pedigree:** Fordhook type (U.S. 254)/Carolina Sieva. **remarks:** Prolific yielder, producing heavy crop even as close as one foot to the ground and continuing to produce fruit throughout the season. Seeds green until maturity, then white. Pods size intermediate, between Fordhook type and Carolina Sieva, but easier to shell. Maturity 60-70 days. Resistant to downy mildew. Grows well throughout Louisiana. Annual. Cultivar. Seed.

PI 549485. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Corneli, Missouri, United States. Received 1962.

origin: United States. **cultivar:** BUTTERGREEN. **pedigree:** Allgreen/Dixie Butterpea White. **remarks:** Distinctive thick seed and flavor. Seed coat green. Sets well in hot weather. Compared to Allgreen for plant type, seed size and thickness. Plant 16" tall, compact, vigorous, dark green foliage. Pods 3 3 1/2" x 7/8", dark green, slightly curved with 3-4 seeds. Seeds small, green cotyledon. Developed primarily for canning and freezing. Also good for home garden. Annual. Cultivar. Seed.

PI 549486. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: New Hampshire Agr. Exp. Sta., New Hampshire, United States. Received 1962.

origin: United States. **cultivar:** WINFIELD. Annual. Cultivar. Seed.

PI 549487. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Ferry-Morse Seed Company, California, United States.
Received 1963.

origin: United States. **cultivar:** FLORIDA BUTTER
SPECKLED. **remarks:** Pole type used widely in the South.
Produces well over long season. Drought and heat
resistance better than most varieties. Color medium
green. Pod 6" long and 1 1/4" wide, broad, flat. Seed
color white. Maturity 90 days. Used for home garden and
market. Annual. Cultivar. Seed.

PI 549488. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Wyoming Agr. Res. Sta., Wyoming, United States.
Received 1963.

origin: USSR. **cultivar:** WYOMING NO. 27680. Annual.
Cultivar. Seed.

PI 549489. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Gill Bros., Oregon, United States. Received 1964.

origin: United States. **cultivar:** OREGON LIMA. **remarks:**
Pole type runner. Extra early and suited for the Pacific
Northwest. Maturity 75 days. Excellent shell bean or
stored for winter use. Seed large, plump, pure white.
Annual. Cultivar. Seed.

PI 549490 to 549492. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: W. Atlee Burpee Company, Pennsylvania, United States.
Received 1964.

PI 549490 **origin:** United States. **cultivar:** BURPEE'S BEST.
pedigree: Mixed sample (Burpee's Best/Challenger) by Dr.
L. Bass. **other id:** CHALLENGER. **remarks:** Pole variety of
Fordhook type. Requires long season. Vine 9-12' tall,
good climber. Hardy and productive. Pods 4 1/2" to 5 1/2"
long, straight, broad and plump, medium green color. 4-6
thick beans per pod. Seed white, tinged with green,
thick, broad oval. 400 per pound. Maturity 90 days. Used
for home garden and market. Annual. Cultivar. Seed.

PI 549491 **origin:** United States. **cultivar:** BURPEES IMPROVED GIANT
PODDED. Annual. Cultivar. Seed.

PI 549492 **origin:** United States. **cultivar:** PRIZETAKER. Annual.
Cultivar. Seed.

PI 549493. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Reuter Seed Company, Louisiana, United States. Received 1964.

origin: United States. **cultivar:** GIANT FLORIDA POLE. **remarks:** One of the heaviest pole type producers. Also known as "Christmas Lima". Vines 10-12' tall. Pods 5-6" long. 4-6 beans per pod, thick, creamy mottled with purple. Maturity 80 days. Annual. Cultivar. Seed.

PI 549494. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Robson, New York, United States. Received 1964.

origin: United States. **cultivar:** BABY POTATO. **remarks:** Bush type, small, fleshy and bright green when fresh. Maturity 72 days. Used for canning, freezing and produce market. Annual. Cultivar. Seed.

PI 549495 to 549496. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: T. W. Wood & Sons, Virginia, United States. Received 1964.

PI 549495 **origin:** United States. **cultivar:** CARPINTERIA. **remarks:** Pole type. Yield of large pods high. Beans large, plump, thin-skinned, extremely tender and exceptionally fine flavor. Maturity 85 days. Annual. Cultivar. Seed.

PI 549496 **origin:** United States. **cultivar:** LARGE WHITE. **remarks:** Pole type. Plant 8-10' tall, medium dark green foliage. Good climber and productive. Pods 6 x 1 1/4", flat and smooth. 4-5 large seeds per pod. Seed large, flat, cream-white to very pale green. Yield and quality high. Maturity 88 days. Excellent for home garden and production of large seeded dry limas. Annual. Cultivar. Seed.

PI 549497. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: T. W. Wood & Sons, Virginia, United States. Received 1979.

PI 549497-continued

origin: United States. **cultivar:** GIANT CHRISTMAS.
remarks: Quality and production high. Vines 7-9' tall. Seed flat, large, white with deep crimson stripe. Seed turns to pink-brown color and stripe disappears when cooked in either dry or green shell stage. Skin thin, tender. Flavor sweet in shell stage. Rated best for Pacific Northwest states where cool summer nights usually prevail. Annual. Cultivar. Seed.

PI 549498. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Farmer Seed Company, Minnesota, United States. Received 1965.

origin: United States. **cultivar:** NORTH POLE. Annual. Cultivar. Seed.

PI 549499. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: California Agr. Exp. Sta., California, United States. Received 1965.

origin: United States. **cultivar:** WHITE VENTURA. Annual. Cultivar. Seed.

PI 549500. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: H.G. Hastings Company, Georgia, United States. Received 1978.

origin: United States. **cultivar:** CHRISTMAS POLE LIMA.
remarks: Long season pole type. Beans large in green shell stage. Seeds Christmas colors. Leaves abundant, narrow, dull medium green. Used in the South and Pacific Northwest, where it has succeeded under conditions that have caused other limas to fail. Vine 7-9' tall. Pods 5 5 1/2" long, large flat, slightly curved. 3 beans per pod. Seeds have creamy green field with slightly raised areas of dark vivid red,. Annual. Cultivar. Seed.

PI 549501. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Michigan Agr. Exp. Sta., Michigan, United States. Received 1968.

PI 549501-continued

origin: United States. **cultivar:** SPARTAN FREEZER.
pedigree: Allgreen/Utah C. **remarks:** Seeds uniform, plump, oval, bright green color and of the Fordhook type. Foliage not dense. Plants uniform and compact with relatively small leaves. Plant height ranges from 12-15" with an upright growth habit and free of long racemes. Pod set is well concentrated in comparison to other varieties and well distributed throughout the plant. Pods 3-5" long, light green. 3-4 seeds per pod. Freezes well. Annual. Cultivar. Seed.

PI 549502 to 549503. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: California Agr. Exp. Sta., California, United States.
Received 1967.

PI 549502 **origin:** United States. **cultivar:** WHITE VENTURA 63.
remarks: Differs from Ventura by having a recessive single gene character that produces chlorophyll in the seed coat. Green color dissipates at maturity depending on weather conditions and the location where it is grown. Annual. Cultivar. Seed.

PI 549503 **origin:** United States. **cultivar:** WHITE VENTURA 65.
pedigree: Mackie Lima/Ventura Lima. **remarks:** Same as White Ventura 63. Further selections were made for white seed coat and bush type. Similar to Ventura in all characteristics except has a dominant single gene character that inhibits the production of chlorophyll in the seed coat. Therefore, it is white seeded. Annual. Cultivar. Seed.

PI 549504 to 549506. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: California Crop Imp. Assoc., California, United States.
Received 1968.

PI 549504 **origin:** United States. **cultivar:** GLENGREEN. **pedigree:** Developed by bulk population breeding from Early Thorogreen, Fordhook 242, Concentrated Fordhook, Evergreen, & Oklahoma 8-2. **remarks:** Bush type. Seeds green. Maturity 100 days. Used for freezing. Annual. Cultivar. Seed.

PI 549504 to 549506-continued

PI 549505 **origin:** United States. **cultivar:** MEZCLA. **pedigree:** Developed from Henderson Bush, Wilbur, Westan, Hopi 5989, Hopi 2000, Hopi 13, and Hopi 12. **remarks:** Vine type. Leaves dark green. Seed white. Maturity 120 days. Recommended in the lima bean growing areas on the west side of the San Joaquin valley. Used for dry bean production. Annual. Cultivar. Seed.

PI 549506 **origin:** United States. **cultivar:** PRIMERO. **pedigree:** Bulk population breeding from crosses that included varieties Wilbur, Western, and L-121. **remarks:** Vine type. Compared to Wilbur and Westan for maturity. Annual. Cultivar. Seed.

PI 549507. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: California Agr. Exp. Sta., California, United States. Received 1970.

origin: United States. **cultivar:** MACKIE. Annual. Cultivar. Seed.

PI 549508. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1972.

origin: United States. **cultivar:** BRIDGETON. **other id:** 568. **remarks:** Bush type. Resistant to downy mildew strains A and B. Susceptible to strain C. Compared to Dover for height, compactness, length racemes, pod maturity, and size, color, flavor and texture of bean. Compared to Dover and Thaxter for pod length, thickness, width and shape. Heavy crop of pods produced below foliage thus reducing flower drop caused by weather related factors. Annual. Cultivar. Seed.

PI 549509 to 549510. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Ben Fish & Son, United States. Received 1975.

PI 549509 **origin:** United States. **origin institute:** Ben Fish & Son. **cultivar:** BUSH FLORIDA BUTTER. **other id:** PVP 7300045. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549509 to 549510-continued

PI 549510 **origin:** United States. **origin institute:** Ben Fish & Son.
cultivar: MENDOZA. **other id:** PVP 7200055. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 549511. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Ben Fish & Son, United States. Received 1977.

origin: United States. **origin institute:** Ben Fish & Son.
cultivar: C-ELITE. **other id:** PVP 7605001. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 549512. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: L.D. Maffei Seed Co., Inc., United States. Received
1978.

origin: United States. **origin institute:** L.D. Maffei
Seed Co., Inc.. **cultivar:** MAFFEI 76. **other id:** PVP
7700005. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 549513 to 549514. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Delaware Agr. Exp. Sta., Delaware, United States.
Received 1979.

PI 549513 **origin:** United States. **cultivar:** C-171. **pedigree:** PI
195342/US 1068, F2. **other id:** GP-15. **source:** Crop Sci.
19(3):419 1979. **group:** CSR-OTHER LEGUMES. **remarks:**
Resistant to downy mildew races A, B and C (caused by
Phytophthora phaseoli). Bush type growth habit. Produces
baby green seed. Produced well in Puerto Rico and in
Delaware. Not completely uniform as to plant size, seed
size and shape. Spotting of seeds from rain less than
other limas. Cotyledons and seed coat green. Annual.
Breeding Material. Seed.

PI 549514 **origin:** United States. **cultivar:** F-169. **pedigree:** From
crosses of Piloy (PI 189403)/Fordhook 242/S400. **other
id:** GP-14. **source:** Crop Sci. 19(3):419 1979. **group:**
CSR-OTHER LEGUMES. **remarks:** Resistant to downy mildew
races A, B and D3 (caused by Phytophthora phaseoli).
Fordhook type. Cotyledons and seed coat green. Maintains
high quality for several days. Maturity 73 days. Annual.
Breeding Material. Seed.

PI 549515. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Thomas, C.A., Plant Variety Protection Office, Agricultural Marketing Service -- USDA, NAL Building, Rm. 500, Beltsville, Maryland, United States. Received 1979.

origin: United States. **cultivar:** B2C. **pedigree:** US1068*2/PI 195342/2/Bridgeton. **other id:** GP-30. **source:** Crop Sci. 20(4):553 1980. **group:** CSR-OTHER LEGUMES. **remarks:** Bush growth habit. Produces baby green seed. Combined resistance to the four known races of downy mildew. Maturity 75 days. Annual. Breeding Material. Seed.

PI 549516. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Ben Fish & Son, United States. Received 1980.

origin: United States. **origin institute:** Ben Fish & Son. **cultivar:** SPRIGG. **other id:** PVP 7900042. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549517. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: L.D. Maffei Seed Co., Inc., United States. Received 1981.

origin: United States. **origin institute:** L.D. Maffei Seed Co., Inc.. **cultivar:** MAFFEI 8. **other id:** PVP 8100044. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549518. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Ben Fish & Son, United States. Received 1981.

origin: United States. **origin institute:** Ben Fish & Son. **cultivar:** DOMPE 95. **other id:** PVP 8000094. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549519. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Thomas, C.A., Plant Variety Protection Office, Agricultural Marketing Service -- USDA, NAL Building, Rm. 500, Beltsville, Maryland, United States. Received 1983.

PI 549519-continued

origin: United States. **cultivar:** F-1072. **pedigree:** PI 195342/F-369. **other id:** GP-45. **source:** Crop Sci. 25(2):369 1985. **group:** CSR-OTHER LEGUMES. **remarks:** Resistant to downy mildew races A, B and C (caused by *Phytophthora phaseoli*). Susceptible to race D. Bush growth habit. Produces Fordhook type seeds. Cotyledons and seed coat green. Maintains high quality for several days. Maturity 73 days. Annual. Breeding Material. Seed.

PI 549520. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: L.D. Maffei Seed Co., Inc., United States. Received 1983.

origin: United States. **origin institute:** L.D. Maffei Seed Co., Inc.. **cultivar:** MAFFEI 57. **other id:** PVP 8300058. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549521. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: L.D. Maffei Seed Co., Inc., United States. Received 1982.

origin: United States. **origin institute:** L.D. Maffei Seed Co., Inc.. **cultivar:** MAFFEI 15. **other id:** PVP 8200005. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549522 to 549523. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Berrier, B.F., 1407 Grand, Canon City, Colorado, United States. Received 1985.

PI 549522 **origin:** United States. **cultivar:** DIXIE BUTTERPEA SPECKLED BUSH. Annual. Cultivar. Seed.

PI 549523 **origin:** United States. **cultivar:** SIEVA POLE. Annual. Cultivar. Seed.

PI 549524. *Phaseolus lunatus* L. FABACEAE Lima bean

Donated by: Thomas, C.A., Plant Variety Protection Office, Agricultural Marketing Service -- USDA, NAL Building, Rm. 500, Beltsville, Maryland, United States. Received 1985.

PI 549524-continued

origin: United States. **cultivar:** MRF-79. **pedigree:** PI 195342/F-169. **other id:** GP-59. **source:** Crop Sci. 26(2):388 1986. **group:** CSR-OTHER LEGUMES. **remarks:** Resistant to downy mildew races A, B, C and D (caused by *Phytophthora phaseoli*). Bush growth habit. Produces Fordhook-type beans. Cotyledons and seed coat green. Maintains high quality for several days. Maturity 80 days. Annual. Breeding Material. Seed.

PI 549525. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Wilson Seed Co., Moscow, Idaho, United States. Received 1959.

origin: United States. **cultivar:** RIVAL. **remarks:** Season 52 days to canning. Bush 16", vigorous, leafy, medium dark green. Flowers pink. Pods round, very thick and meaty, 6-1/2", stringless and fiberless, straight, green. Seed purple with faint mottling. Adaptability very high. Prolific strain developed by USDA for snap purposes. Resistant or tolerant to most of the common bean diseases. Annual. Cultivar. Seed.

PI 549526 to 549528. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Corneli, Missouri, United States. Received 1960.

PI 549526 **origin:** United States. **cultivar:** CONTENDER. **remarks:** High yielding market and home garden variety developed for tolerance to heat, resistance to common bean mosaic and powdery mildew. Plants 12-18" tall, moderately bushy, medium dark green, vigorous. Pods 7 x 1/2", oval to nearly round, curved, medium green, stringless, tender when small, very fibrous at full size. Seed buff with brown mottline, long, round to oval. Maturity. Annual. Cultivar. Seed.

PI 549527 **origin:** United States. **cultivar:** IDEAL MARKET. **remarks:** Obsolete variety. Used principally because of its extreme earliness. Vine 3 1/2 to 4', good climber, medium green. Pods 5 to 4 1/2" long, light silvery green, straight and round. Stringless and tender when young. Seed black, 1,690 per pound. Annual. Cultivar. Seed.

PI 549526 to 549528-continued

PI 549528 **origin:** United States. **cultivar:** TENNESSEE GREEN POD.
remarks: Popular in the South because of its extreme earliness and fine flavor. Vine 10-12" tall, spreading, sturdy, very dark green with abundance of blooms on leaves. Pods 6-7" long, exceptionally broad and flat, with prominent seeds, stringy and fibrous, medium dark green. Unusually good flavor, but should be picked young. Seed yellowish brown with obscure brown eye ring, 1,230 per pound. Maturity 49. Annual. Cultivar. Seed.

PI 549529. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Mississippi AES, Mississippi, United States. Received 1961.

origin: United States. **cultivar:** LONGVAL. **remarks:** Yield high. Plants 16". Pods 6", oval, medium dark emerald green. Seed black. Low fiber content. Resistant to common bean mosaic. Maturity 55 days. Used for fresh market and home garden snap bean. Annual. Cultivar. Seed.

PI 549530. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Washington AES, Washington, United States. Received 1961.

origin: United States. **cultivar:** GOLDEN LAKE WAX POLE.
remarks: Climbing wax bean for western Washington W of Cascade Mts. Pods golden yellow, smaller in diameter than Blue Lake, smooth. Seed slightly green in processed samples, white when mature. Pods stringless, smooth and firm. Maturity 7-10 days later than Blue Lake. Resistant to common bean mosaic and pod and leaf rusting (not true bean rust). Better for canning than for freezing. Annual. Cultivar. Seed.

PI 549531 to 549532. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Nebraska AES, Nebraska, United States. Received 1961.

PI 549531 **origin:** United States. **cultivar:** NEBRASKA NO 1.
remarks: Moderately blight resistant field bean. Recommended for the panhandle area of Nebraska. Great Northern type white bean with short plants and 3-4 day longer maturity than G.N.#59. Seeds white, variable size. Annual. Cultivar. Seed.

PI 549531 to 549532-continued

PI 549532 **origin:** United States. **cultivar:** STARLAND. **remarks:** Resistant to some halo blight strains. Tested in Nebraska and Montana. Annual. Cultivar. Seed.

PI 549533 to 549535. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Montana AES, Montana, United States. Received 1961.

PI 549533 **origin:** United States. **cultivar:** GREAT NORTHERN MONTANA NO 1. **remarks:** Yield high. Well adapted to all bean growing areas of state. Semi-bush variety with small amount of indeterminate growth. Uniform in maturity. Seed large, white. Resistant to common bean mosaic. Maturity early. Annual. Cultivar. Seed.

PI 549534 **origin:** United States. **cultivar:** GREAT NORTHERN MONTANA NO 5. **remarks:** Yield high. Well adapted to the bean growing areas of Montana. Growth vigorous, medium indeterminate type. Seeds white, typical green northern shape, and similar in size to UI123, but slightly large than Montana No. 1. 3-5 days earlier and has less indeterminate growth than UI123. Resistant to common bean mosaic. Maturity early. Annual. Cultivar. Seed.

PI 549535 **origin:** United States. **cultivar:** PINTO BEAN UI-111. **remarks:** Yield potential high. Growth vigorous, low bush type. Resistant to common bean mosaic (strain VI) and to curly top. Susceptible to common mosaic. Maturity medium early. Annual. Cultivar. Seed.

PI 549536 to 549571. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Corneli, Missouri, United States. Received 1961.

PI 549536 **origin:** United States. **cultivar:** ALABAMA NO 1. **remarks:** Developed for southern growers. Resembles Ideal Market but is very resistant to root knot nematodes. Pods 6 x 3/8", thick oval, silvery green, almost straight. Develops purple pigmentation. Seeds black, 115 per oz. Annual. Cultivar. Seed.

PI 549536 to 549571-continued

- PI 549537 **origin:** United States. **cultivar:** BLACK VALENTINE STRINGLESS. **remarks:** Vine 16-18" tall, vigorous, erect, with distinct foliage growth, dark green. Blossoms rose purple. Pods 6 1/2 to 7" long, slender, thick-oval, almost straight. Stringless, very attractive, velvety, medium dark green. Sufficient fiber content to prevent wilting during shipment. Seed long oval, slightly flattened, entirely jet black, 1,700 per lb. Maturity 52 days. Some tolerance of common bean mosaic. Annual. Cultivar. Seed.
- PI 549538 **origin:** United States. **cultivar:** BLUE LAKE STRINGLESS. **remarks:** Plant very prolific. Pods 6" long, straight, round, dark green and stringless when young. Vine 5' high. Maturity 65 days. Highly recommended for canning, drying and shelling. Excellent for home gardens. Annual. Cultivar. Seed.
- PI 549539 **origin:** United States. **cultivar:** BLUE RIBBON POLE. **pedigree:** Selection from Striped Creaseback. **remarks:** Closely resembles Stripped Creaseback, except for somewhat earlier maturity and shorter plants and pods, with less tendency to curling. Pods 5 x 7/16". Seed tan with brown mottling and stripes, 120 per oz. Maturity 69 days. Annual. Cultivar. Seed.
- PI 549540 **origin:** United States. **cultivar:** BOUNTIFUL. **remarks:** Bountiful, flat podded variety. Plants 14-18" tall, vigorous, light green leaves. Pods 6 1/2 to 7" x 1/2", thick-flat, light green, stringless, becomes fibrous at full size. Seed straw yellow with dark brown eye ring. Maturity 48 days. Used for canning (flesh sliced), early market and home garden. Annual. Cultivar. Seed.
- PI 549541 **origin:** United States. **cultivar:** BRITTLE WAX. **remarks:** Standard round-podded wax variety for general use and processing, now being replaced by Kinghorn in most areas. Plants large, erect, medium green. Pods 5-3/4 x 3/8", medium yellow, round, slightly curved, brittle fleshy, stringless, with low fiber content. Seeds white, kidney shaped, with black eye, 80 per oz. Maturity 55 days. Annual. Cultivar. Seed.
- PI 549542 **origin:** United States. **cultivar:** BURPEES STRINGLESS IMPROVED BUSH. **remarks:** Old home garden variety highly susceptible to common bean mosaic. Not suitable for canning or freezing. Plants 16-18" tall. Pods 5 1/2 x 6" x 3/8", heart shaped, curved, rather rough, stringless, very fibrous at full size. Seed coffee brown with black eye ring. Maturity 50 days. Annual. Cultivar. Seed.

PI 549536 to 549571-continued

- PI 549543 **origin:** United States. **cultivar:** CHEROKEE (WAX VALENTINE). **remarks:** The leading oval-podded wax variety resembling Asgrow Black Valentine, except for bright yellow pods. Plants large, erect, and very productive. Pods oval, nearly straight, 6 1/2 x 3/8". Seeds solid black, 80 per oz. Maturity 50 days. Particularly well suited for fresh market because of heavy yields and ability to retain attractive appearance after picking. Annual. Cultivar. Seed.
- PI 549544 **origin:** United States. **cultivar:** COMMODORE IMPROVED. **remarks:** Plants medium, erect, vigorous. Pods 7 1/2 x 1/2", round, dark green, creasebacked, somewhat curved, resembling Kentucky Wonder in shape and flavor. Seeds red, 70 per oz. Maturity 58 days. Used for home gardens and local markets. Annual. Cultivar. Seed.
- PI 549545 **origin:** United States. **cultivar:** EXTENDER. **remarks:** USDA introduction. Production high. Pods long, dark green, 5-6" x 3/8", straight to slightly curved, smooth, round to creaseback in larger sizes, dark green, stringless. Fiber develops rapidly in larger sizes. Seed black, round. Maturity early, 48-50 days. Annual. Cultivar. Seed.
- PI 549546 **origin:** United States. **cultivar:** FLORIGREEN. **remarks:** New white-seeded variety in the Kentucky 191-McCaslan class. Plants vigorous, very productive. Pods long, wide, thick-flat, somewhat rough, medium dark green, 8 1/2 x 1/2". Seeds white, 65 per oz. Maturity early, 62 days. Annual. Cultivar. Seed.
- PI 549547 **origin:** United States. **cultivar:** FULL MEASURE. **remarks:** High quality all-purpose bean especially well adapted for canners and freezers in the warmer Central and upper Southern states. Vine 17-18" tall, sturdy, vigorous, medium green. Pods 6 - 6 1/2" long, straight, and round, with slight constrictions between seed, bright medium green, stringless, and tender. Seed is reddish brown mottling on buff field, 1,050 per pound. Maturity 54 days. Used for. Annual. Cultivar. Seed.
- PI 549548 **origin:** United States. **cultivar:** GENUINE CORNFIELD. **remarks:** Older variety still preferred in some areas. Pods thick oval, straight, medium green, with purple mottling at later stages, fleshy and of good flavor, 6 x 7/16", becoming stringy and fibrous. Seeds tan with brown mottling and stripes, 120 per oz. Maturity 72 days. Also called Striped Creaseback. Annual. Cultivar. Seed.

PI 549536 to 549571-continued

- PI 549549 **origin:** United States. **cultivar:** GOLDEN WAX TOPNOTCH.
remarks: Replaces the Improved Golden Wax and is superior to the old type Golden Wax for its productivity, hardiness, and length of pods. Vine 12-14" tall, erect, compact, sturdy, vigorous, medium green. Pods 5-5 1/2" long, thick flat in shape, straight, light golden yellow, stringless, tender and fleshy. Seed white with irregular brown eye ring, oval shape, 1,520 per lb. Maturity 50 days. Used for home garden. Annual. Cultivar. Seed.
- PI 549550 **origin:** United States. **cultivar:** IDAHO BOUNTIFUL.
remarks: Resistant to mosaic and curly top. Vine 16-18" tall, vigorous, medium dark green. Pods 6 1/2" to 7" long, broad, thick flat, medium green, tender, fleshy. Becomes fibrous at full size but remains stringless. Seed medium buff or darker than regular Bountiful, with darker eye ring, 1,150 per pound. Maturity 50 days. Used for market, shipping and canning. Annual. Cultivar. Seed.
- PI 549551 **origin:** United States. **cultivar:** IDAHO REFUGEE.
remarks: Pods 5" long, nearly round, straight, and slender. Light green, becoming purple-splashed at maturity, stringless, practically fiberless, crisp and tender. Seed bluish purple splashed on fawn field, 1,550 per pound. Maturity 64 days. Most widely used of the Refugee group. Used for canning. Annual. Cultivar. Seed.
- PI 549552 **origin:** United States. **cultivar:** KENTUCKY WONDER RUST RESISTANT. **remarks:** Most widely used pole variety. Very productive. Pods fleshy, slightly stringy but fiberless, distinctively flavored. Pods 6 x 1/2" almost round, indented, medium green. Seed buff or brown. Maturity 65 days. Used for home garden and market use. Also called Old Homestead. Annual. Cultivar. Seed.
- PI 549553 **origin:** United States. **cultivar:** KENTUCKY WONDER/OLD HOMESTEAD. **remarks:** Most widely used home garden pole bean. Noted for its fine flavor. Plants 5-6' tall, vigorous, dark green foliage, widely adapted. Pods 7-9" long, thick oval, medium dark green, twisted, slightly stringly, tender and brittle when young. Seed grayish brown to brown. Maturity 65 days. Annual. Cultivar. Seed.

PI 549536 to 549571-continued

- PI 549554 **origin:** United States. **cultivar:** KINGHORN SPECIAL. **remarks:** Well liked by food processors because of its vigor, productivity and its pure white seed color. Vine large, and bushy, with medium large leaves, erect, medium dark color. Exceptionally hardy and productive. Pods 6" long, round and slightly curved, stringless, deep yellow. Seed white, long, round, 1,400 per pound. Maturity 54 days. Used for canning and freezing. Annual. Cultivar. Seed.
- PI 549555 **origin:** United States. **cultivar:** MCCASLIN. **remarks:** Standard variety for fresh market and home gardens in the South. Plants vigorous, good climbers, very productive. Pods 7 1/2 x 9/16", large, medium green, flat, meaty, tender. Flavor good. Seeds ivory white, 80 per oz. Maturity 65 days. Annual. Cultivar. Seed.
- PI 549556 **origin:** United States. **cultivar:** MISSOURI WONDER. **remarks:** Dual-purpose variety for snap and shelled bean use. Plants of Cornfield type. Immature pods nearly round, medium green, brittle, edible as snap beans, becoming splashed with red, tough, stringy, fibrous at green-shelled stage. Pods 6 x 1/2". Seeds gray-buff, mottled with tan, 70 per oz. Maturity 66 days. Annual. Cultivar. Seed.
- PI 549557 **origin:** United States. **cultivar:** PENCIL POD BLACK WAX. **remarks:** An older variety, primarily for home gardens and fresh market, where round pods are desired. Plants large, stocky, vigorous, productive. Pods round, slightly curved, fleshy, golden yellow, low fiber content, 6 x 7/16". Seeds black, 90 per oz. Maturity 55 days. Annual. Cultivar. Seed.
- PI 549558 **origin:** United States. **cultivar:** PLENTIFUL. **remarks:** Plants vigorous, productive. Pods 6" flat, light green. Resembles Bountiful somewhat, though later in maturity. Seeds black, 65 per oz. Used for shipping and home gardens. Maturity 50 days. Annual. Cultivar. Seed.
- PI 549559 **origin:** United States. **cultivar:** PUREGOLD WAX. **remarks:** Plants upright, light green foliage. Pods 5 1/2 x 6", round, slender, excellent quality, stringless, straight and golden yellow. Seeds white, light brown eye. Useful in all bean growing areas. Resistant to common bean mosaic. Maturity 60 days. Recommended for home garden market or processing. Annual. Cultivar. Seed.

PI 549536 to 549571-continued

- PI 549560 **origin:** United States. **cultivar:** RED VALENTINE STRINGLESS. **remarks:** Stringless version of original Red Valentine. Pods medium green, creasebacked, brittle, curved, 4 1/2 x 3/8". Seeds purplish red, mottled with pale buff, 80 per oz. Maturity 54 days. Used for home gardens in some areas. Annual. Cultivar. Seed.
- PI 549561 **origin:** United States. **cultivar:** SLENDERGREEN. **remarks:** Tendergreen type with pods slimmer, smoother, and more uniform at maturity. Pods 6 x 6 5/16". Seeds purple with buff mottline, 125 per oz. Maturity 54 days. Used for processing. Annual. Cultivar. Seed.
- PI 549562 **origin:** United States. **cultivar:** ST LOUIS PERFECTION. **remarks:** White Kentucky Wonder type, vigorous high yielding. Vines vigorous, good climbers, bearing heavy crop over long period. Pods 7 1/2 x 7/16", medium green, fairly straight, nearly round, fleshy, with a distinctive beany flavor. Seeds entirely white, round-oblong, 90 per oz. Maturity 64 days. Used for local market and home gardens. Annual. Cultivar. Seed.
- PI 549563 **origin:** United States. **cultivar:** STRINGLESS HORTICULTURAL. **remarks:** Vine 14-15" tall, vigorous, medium dark green. Pods 5-6" long, thick-oval, nearly round. Bluish green, tender, and crisp when young. Stringless at all stages. Develops splashes of red coloring as it matures. Seed buff to light brown with irregular spots of reddish brown, oval, 1,050 per lb. Very fine quality for preparing as dry beans. Annual. Cultivar. Seed.
- PI 549564 **origin:** United States. **cultivar:** SULPHUR. **remarks:** Pods 4 x 3/8", light green, nearly round, becoming stringy. Seeds sulphur colored, with brown eye, 70 per oz. Maturity 55 days. Old variety used for home and local market in the South. Annual. Cultivar. Seed.
- PI 549565 **origin:** United States. **cultivar:** TAYLOR HORTICULTURAL. **remarks:** Plants 14-16". Pods 5 1/2 x 6" x 1/2", flat to oval, stringy and fibrous at all stages, light green in snap stage turning to white with splashes of crimson. Seed buff with irregular spots of maroon-brown ring eye. Maturity 62-65 days. Used for green shell beans. Annual. Cultivar. Seed.

PI 549536 to 549571-continued

- PI 549566 **origin:** United States. **cultivar:** TENDERGREEN IMPROVED. **remarks:** Refinement of original Tendergreen, larger, smoother pods. Plants 16-18", strong stem. Pods 5 - 5 1/2" x 3/8", round to oval, straight to slightly curved, stringless, very slow fiber development but rather rapid seed development. Seed brownish purple on fawn background. Maturity 53 days. Resistant to common bean mosaic. Annual. Cultivar. Seed.
- PI 549567 **origin:** United States. **cultivar:** TENDERPOD. **remarks:** Pod quality exceptionally good. Withstands adverse weather conditions better than many other varieties. Exceptional table quality and well suited for home freezing. Vine 17-18" tall, sturdy with pods carried mostly in center of bush. Foliage dark green. Pods 5-5 1/2" long, characterized by unusually long, curving tip ends, round with slight constrictions, dark green, stringless and fiberless. Seed. Annual. Cultivar. Seed.
- PI 549568 **origin:** United States. **cultivar:** TOPCROP. **remarks:** Plants 16" upright, spreading. Pods 5 1/2 x 7/16", round to creaseback, medium green. Seed develops rather rapidly. Seed color tan mottled over brown background. Yield and quality high. Resistant to common bean mosaic and greasy pod virus. Maturity 50 days. Used for home garden. Annual. Cultivar. Seed.
- PI 549569 **origin:** United States. **cultivar:** WADE. **remarks:** Plants 17-18" erect, dark green foliage. Pods 5 x 3/8", smooth, slightly curved, dark green, fiber develops rapidly. Seed reddish brown. Yield and productivity high. Resistant to common bean mosaic, powdery mildew and one or more races of rust. Maturity 56 days. Used for market and home garden. Annual. Cultivar. Seed.
- PI 549570 **origin:** United States. **cultivar:** WHITE HALF-RUNNER. **remarks:** Popular as a green bean and dry bean in South and Southeast. Pods 4 x 3/8", round, not stringless and become fibrous when fullsized, but have distinctive flavor, medium light green. Seeds white. Maturity 60 days. Annual. Cultivar. Seed.
- PI 549571 **origin:** United States. **cultivar:** WHITE KENTUCKY WONDER 191. **remarks:** Plants 6' vigorous, broad, dark green leaves. Pods 8-9" x 1/2", very dark green, oval, tender and stringless at optimum maturity, smoother than regular Kentucky Wonder. Seed white, flat. Resistant to one or more races of rust. Maturity 64 days. Annual. Cultivar. Seed.

PI 549572 to 549582. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States.
Received 1961.

- PI 549572 **origin:** United States. **cultivar:** BACHICHA. **remarks:** Bush, green podded variety. Used for snaps and shell beans on Pacific Coast. Plants vigorous, erect. Pods stringless but somewhat fibrous, medium dark green. Pod length 5-6" long, width is 1/2" with broad and flattened pod section. Seed brownish red with white eye. Maturity 70 days. Used for home market. Annual. Cultivar. Seed.
- PI 549573 **origin:** United States. **cultivar:** BLUE LAKE STRINGLESS FM 1. **remarks:** Pods 5 1/4 to 5 3/4" x 1/2", round, dark green, straight, smooth, borne from bast to top of plant. Seeds white. Resistant to common bean mosaic and genetically stringless. Maturity 58 days. Used for canning, freezing, and home use. Annual. Cultivar. Seed.
- PI 549574 **origin:** United States. **cultivar:** FERRYS PLENTIFUL. **remarks:** Pods 7 1/2 x 1/2", flat, medium deep green. Seeds black. Shows resistance to some forms of rust. Maturity 49 days. Developed for shipping and market variety. Also called Black Seeded Bountiful. Annual. Cultivar. Seed.
- PI 549575 **origin:** United States. **cultivar:** GREENCROP. **remarks:** Plants large, vigorous, productive. Pods 8 x 1/2", flat, exceptionally long, tending to curve, dark green, relatively free of fiber. Seeds white, 70 per oz. Maturity 54 days. All-America Bronze Medal winner for 1957. Of interest to home and market gardeners and to processors for the French-cut pack. Annual. Cultivar. Seed.
- PI 549576 **origin:** United States. **cultivar:** KENTUCKY WONDER WHITE SEEDED. **remarks:** Used as bush bean for winter planting or pole bean for spring and summer planting. Particularly adapted for Pacific Coast. Pods 6 x 1/2", almost round, indented, medium green. Seeds white. Maturity 60 days. Used for home garden. Annual. Cultivar. Seed.
- PI 549577 **origin:** United States. **cultivar:** MORSES POLE NO 191. **remarks:** Maturity 63 days. Recommended where rust is prevalent. White-seeded Kentucky Wonder type, particularly adapted for use in Pacific Coast and Southeastern states. Pods 8-1/2 x 1/2", thick oval, dark green, tender, stringless at snap stage. Seeds white. For home and market use. Annual. Cultivar. Seed.

PI 549572 to 549582-continued

PI 549578 **origin:** United States. **cultivar:** OREGON GIANT. **remarks:** Northwestern garden variety, with large, more prolific plants, and pods stringless at all stages. Plants sturdy and climb well. Pods thick oval, stringless, very meaty, light green, splashed purplish blue. Seeds pinkish light brown with broken blackish stripes, 50 per oz. Pods 8 1/2" long and 9/16" wide. Maturity 71 days. Annual. Cultivar. Seed.

PI 549579 **origin:** United States. **cultivar:** PROCESSOR. **remarks:** Maturity 54 days. Outstanding white-seeded canning and freezing variety. Highly resistant to common bean mosaic and NY15 mosaic. Vines very dark green, medium height. For machine or hand harvesting. Attractive pack with clear liquor. Pods 5-1/2" x 3/8", round, straight, smooth, solid interior with small seed development at picking stage. Seeds pure white. For canning, freezing and baby food. Annual. Cultivar. Seed.

PI 549580 **origin:** United States. **cultivar:** SMALL WHITE 51. **remarks:** Maturity 129 days. Resistant to common bean mosaic. Compared to standard California Small White, this variety has smaller vines, shorter runners, and denser foliage. Concentrated in pod maturity, heavy yield. Matures well in cool areas, and behind windbreaks in hot, windy locations. Pods 4" x 3/8", flat, medium green. Seeds white. Use for dry beans only. Annual. Cultivar. Seed.

PI 549581 **origin:** United States. **cultivar:** SMALL WHITE 52. **remarks:** Maturity 132 days. Resistant to common bean mosaic. Slightly larger, later and denser vines than FM-51, and has the capacity for slightly greater pod set. Adapted to same growing conditions as FM-51. Pods 4" x 3/8", flat, medium green. Seeds white. Used for dry beans only. Annual. Cultivar. Seed.

PI 549582 **origin:** United States. **cultivar:** TENDERBEST. **remarks:** Maturity 54 days. High resistance to common and NY 15 bean mosaic. Resistance to root rot allows good crops in dry seasons. Upright, dark green plants hold pods high for mechanical harvesting. Pods 6-1/2" x 3/8", round, medium green, straight, smooth. Healthy plants produce over long season. Seeds purplish with buff mottling. For canning, market and home use. Annual. Cultivar. Seed.

PI 549583 to 549585. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Vaughan-Jacklin Corporation, 5300 Katrine Avenue, Downer's Grove, Illinois, United States. Received 1961.

PI 549583 to 549585-continued

PI 549583 **origin:** United States. **cultivar:** BLUE COCO. **remarks:** Maturity 65 days. Blue podded pole bean that turns green when cooked. Excellent grower that bears all season. World famous quality bean considered to be the best flavored of all green or wax pod beans. Annual. Cultivar. Seed.

PI 549584 **origin:** United States. **cultivar:** CHOCTAW WAX. **remarks:** Maturity 54 days. Plants 18" spreading, leaves smooth, medium green, pink flowers. Heavy yield. Pods broad, flat, oval, 6" long, pale waxy yellow, smooth, straight. Seeds small, dull bluish-brown color. Heavy pod set, well filled at both ends, fleshy and straight. Adaptable to all areas where beans can be grown. Recommended for home garden, fresh market or shipping. Resistant to common mosaic & heat. Annual. Cultivar. Seed.

PI 549585 **origin:** United States. **cultivar:** GOLDEN BOUNTIFUL WAX. **remarks:** Maturity 53 days. Annual. Cultivar. Seed.

PI 549586 to 549587. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Northrup, King & Co, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1961.

PI 549586 **origin:** United States. **cultivar:** BLUE LAKE STRINGLESS LINE 5. **remarks:** Maturity 60 days. Plants 5-6' tall, vigorous and productive with large, medium dark green leaves. Clean basal growth. Pods 6" x 3/8", straight, round, stringless, fiberless, dark green of unsurpassed quality. Seeds small, kidney shaped, white. Pods are stringless at all stages. Resistant to common bean mosaic. Cans and freezes very well. Annual. Cultivar. Seed.

PI 549587 **origin:** United States. **cultivar:** PEARLGREEN. **remarks:** Stringless, green pod type bush bean. Maturity 53 days. Compared to Tendergreen for most characteristics. Seeds outstanding for canning and freezing and for fresh market. Resistant to common bean mosaic, and has wide range of adaptation. Annual. Cultivar. Seed.

PI 549588 to 549592. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rudy-Patrick Seed Co, Missouri, United States. Received 1961.

PI 549588 to 549592-continued

- PI 549588 **origin:** United States. **cultivar:** BLUE RIBBON CREASEBACK. **remarks:** Maturity 69 days. Favorite in the South for home gardens and cornfields. Developed from selection out of Striped Crease. Pods 5 1/2 x 1/2", round, medium green, tender and flavorful when young, but stringy when full grown. Seeds buff with brownish stripes. Annual. Cultivar. Seed.
- PI 549589 **origin:** United States. **cultivar:** COMMODORE. **remarks:** Maturity 58 days. Plants medium, erect, vigorous. Pods round, dark green, creasebacked, curved, 7-1/2 x 1/2". For home gardens and local market. Seeds red, 70 per oz. Annual. Cultivar. Seed.
- PI 549590 **origin:** United States. **cultivar:** LAZY WIFE. **remarks:** Commodore Improved (Bush Kentucky Wonder) home garden variety. Maturity 58 days. Plants 15-17", medium dark green, upright, vigorous, moderately open. Pods 7-1/2 to 8" x 3/8", almost round, slightly curved, stringless, almost fiberless in all sizes, very dark green. Seeds reddish purple, very long, round. Annual. Cultivar. Seed.
- PI 549591 **origin:** United States. **cultivar:** STRIPED HALF RUNNER. **remarks:** Vine vigorous half runner type. Pods 4 1/2 - 5" long, 3/8" wide, oval, slender, light green, stringy when mature. Usable as snap beans in early stage, shell beans at later stage. Seed tan with darker brown stripes, 1,400 per pound. Maturity 60 days. Used in home gardens. Grown in some sections of the South, often planted with corn. Annual. Cultivar. Seed.
- PI 549592 **origin:** United States. **cultivar:** TENDERLONG 15. **remarks:** Maturity 50 days. Plants medium large, upright, resistant to Bean Virus 1, NY15, pod mottle virus. Tolerant to halo blight and powdery mildew. Pods 6.2" x .4", round to deep oval, smooth, relatively straight, medium dark green, meaty, good texture and flavor after processing. High quality for freezing. Seeds buff with near black mottling, 1200 per lb. Annual. Cultivar. Seed.

PI 549593 to 549601. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Corneli, Missouri, United States. Received 1964.

PI 549593 to 549601-continued

- PI 549593 **origin:** United States. **cultivar:** BLUE RIBBON. **remarks:** Creaseback type, earlier than Striped Creaseback. Good yielder, and tender when young. Vines 4-1/2 to 5' tall, a good climber. Similar to Striped Creaseback but does not have purple pigment on runners. Blossom color faint purple -- almost white. Pods 4-1/2" long, almost round. Light green, fleshy and stringless when young. Seeds brown stripes over mottled buff field, plump, oval, 1450 per pound. Annual. Cultivar. Seed.
- PI 549594 **origin:** United States. **cultivar:** CORNELI 14. **remarks:** Used for canning and adapted to mechanical harvesting. Also used as a high quality home garden bean. Heavy production, concentrated set, low snipper loss, slow fiber and seed development, resist. to common bean mosaic. Maturity 56 days Plants 16-18", well rooted, strong central stem, heavy dark green foliage. Pods 6" x3/8", round to creaseback, straight to slightly curved, stringless. Seeds white, round, slender. Annual. Cultivar. Seed.
- PI 549595 **origin:** United States. **cultivar:** GIANT STRINGLESS. **remarks:** Old variety which continues to be rather widely used in parts of the South. Vines 16-17" tall, similar to Burpee's Stringless Improved except lighter green. Pods 7" long, almost straight, creaseback, stringless, fiberless, and fleshy. Seeds yellowish-brown with brown eye ring, 1,100 per pound. Annual. Cultivar. Seed.
- PI 549596 **origin:** United States. **cultivar:** HARVESTER C. **remarks:** Has all general characteristics of regular Harvester, being a white seeded bean by Asgrow. Maturity date of Harvester C is about 2 days earlier than regular Harvester (51 days). General plant type is the same and the pods are practically identical in size and shape. Annual. Cultivar. Seed.
- PI 549597 **origin:** United States. **cultivar:** LONDON HORTICULTURAL/WRENS EGG. **remarks:** An old variety, no longer used extensively. Makes good green shelled or dry shelled bean, and is also used in snap stage. Vines 4 to 4-1/2' tall, dark green, abundant foliage. Pods 6 to 6-1/2", straight, wide. Dark green turning lighter with red splashes in green shell stage. Good quality, stringless, almost fiberless. Seeds red streaked and splashed on buff field, full oval shape, 850 per pound. Annual. Cultivar. Seed.

PI 549593 to 549601-continued

PI 549598 **origin:** United States. **cultivar:** SPARTAN HALF RUNNER.
remarks: Grown in some sections of South, often planted with corn. Vines vigorous half runner type. Pods 4-1/2" to 5" long, 3/8 " wide, oval slender, light green, stringy when mature. Usable as snap beans in early stage, shell beans at later stage. Seeds tan with darker brown stripes, 1400 per pound. Annual. Cultivar. Seed.

PI 549599 **origin:** United States. **cultivar:** STATE HALF RUNNER.
remarks: Variety of the regular half runner type used in the Midwest and South. Highly resistant to nematodes. Pods are light green, straight, and some tend to curve slightly. Pod 4" long x 7/16" width. Maturity 52-55 days. Annual. Cultivar. Seed.

PI 549600 **origin:** United States. **cultivar:** STRINGLESS KENTUCKY.
pedigree: Kentucky Wonder/Commodore Improved (Bush Kentucky Wonder). **remarks:** Pods crips, tender, meaty and of good flavor. Basic Kentucky Wonder pod length, thick-oval shape and distinctive flavor have been retained. Pods dark emerald green. Matures early and pod setting continues over a long period. Yield good. Considered a unique variety with "great potential". Annual. Cultivar. Seed.

PI 549601 **origin:** United States. **cultivar:** TEXAS NAVY. Annual. Cultivar. Seed.

PI 549602 to 549605. Phaseolus vulgaris L. FABACEAE Bean

Donated by: W. Atlee Burpee Co., Pennsylvania, United States. Received 1961.

PI 549602 **origin:** United States. **cultivar:** BURPEES STRINGLESS GREENPOD. **remarks:** Maturity 50 days. Plants bushy and productive. Pods nearly round, slightly curved, stringless and fiberless, 5 3/4" x 1/2". Seeds coffee-brown, 75 per oz. Annual. Cultivar. Seed.

PI 549603 **origin:** United States. **cultivar:** KENTUCKY WONDER WAX.
remarks: Maturity 68 days. Standard wax-podded pole variety. Plants vigorous, resistant to several strains of rust, good climbers, productive. Pods 7" x 1/2", waxy yellow, oval, somewhat fibrous, meaty. Seeds chocolate brown, 80 per oz. Annual. Cultivar. Seed.

PI 549602 to 549605-continued

PI 549604 **origin:** United States. **cultivar:** SCOTIA POLE. **remarks:** Maturity 72 days. Strong climber, for interplanting with corn. Heavy yielding Southern favorite. Pods 6" x 1/2", round, medium light green, become stringy when fully grown. Tender when young. Seeds buff with brown stripes. For home use. Also called Genuine Cornfield and Striped Creaseback. Annual. Cultivar. Seed.

PI 549605 **origin:** United States. **cultivar:** SURECROP WAX BUSH. **remarks:** Maturity 53 days. Sometimes called Bountiful Wax. Plants large, sturdy, very productive. Pods 5-1/2" x 7/16", thick-flat, golden yellow, brittle, strictly stringless, very little fiber, fine texture and quality. Seeds jet black, 65 per oz. Annual. Cultivar. Seed.

PI 549606 to 549607. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: W. Atlee Burpee Co., Pennsylvania, United States.
Received 1971.

PI 549606 **origin:** United States. **cultivar:** BURPEE GOLDEN. **remarks:** Maturity 60 days. Pods wide, flat, butter-yellow, 5 1/2 to 6" long, stringless, fiberless, meaty and of fine flavor. Plant seed when danger of frost is past and soil is warm. Pole beans do best if vines are given support. Annual. Cultivar. Seed.

PI 549607 **origin:** United States. **cultivar:** LIKA LAKE. **remarks:** Maturity 56 days. Bush bean with flavor and pod quality of Blue Lake. Heavy yield. Pods 4" long, straight, fully round, dark green, slow seed development. Excellent for fresh market trade, canning or freezing. Annual. Cultivar. Seed.

PI 549608 to 549609. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Charter Seed Co, Idaho, United States. Received 1961.

PI 549608 **origin:** United States. **cultivar:** GARDENGREEN. **remarks:** Maturity 57 days. Meaty round podded snap bean. Produces abundant crops of straight, smooth, bright dark pods, 5 to 5-1/2" long, stringless, fiberless. Mosaic-resistant. Annual. Cultivar. Seed.

PI 549609 **origin:** United States. **cultivar:** LONG TENDERGREEN M R. **remarks:** Maturity 52 days. Pods 6-1/2" to 7", round, smooth, and of high quality. Most popular main crop variety in many areas. Resistant to mosaic. Annual. Cultivar. Seed.

PI 549610. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Vaughan-Jacklin Corporation, 5300 Katrine Avenue, Downer's Grove, Illinois, United States. Received 1978.

origin: United States. **cultivar:** STREAMLINER/GRANDA.
remarks: Maturity 50 days. Also called Granda. European introduction. Bush of medium size and prolific. Pods 7-1/2" x 3/8" long, straight, oval, medium green, somewhat fibrous, of fair quality. Seeds white, small, 90 per oz. Annual. Cultivar. Seed.

PI 549611. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Mississippi USDA, ARS, Mississippi, United States. Received 1961.

origin: United States. **cultivar:** STRINGLESS GREENPOD.
remarks: Maturity 50 days. Pods 5-3/4" x 3/8". Standard, general purpose variety being replaced in many areas by newer varieties with disease resistance. Plants medium large, erect productive. Pods nearly straight, medium green, round, meaty, stringless, and relatively free of fiber. Seeds buff with purple mottling, 65 per oz. Annual. Cultivar. Seed.

PI 549612 to 549613. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Eastern State Farmers, United States. Received 1961.

PI 549612 **origin:** United States. **cultivar:** EASTERN BUTTERWAX.
remarks: Maturity 52 days. Pods 6-1/2 to 7", medium yellow wax color, similar to Tekoa in shape. Has size and productiveness and exceptional quality. Annual. Cultivar. Seed.

PI 549613 **origin:** United States. **cultivar:** TEKOA. **remarks:** Maturity 52 days. Pods 6-1/2" to 7", round, medium green in color. Finest mid-season variety for local trade and for freezing. When fully developed but still tender, somewhat resembles Kentucky Wonder. Tekoa is in a class by itself on high quality. Developed by Eastern States. Annual. Cultivar. Seed.

PI 549614. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Joseph Harris Co, Inc, Moreton Farm, Rochester, New York, United States. Received 1961.

PI 549614-continued

origin: United States. **cultivar:** HARRIS SHIPPER.
remarks: Maturity 53 days. Produces big yields of smooth, attractive pods. Slim, nearly round and about 5-1/2" long. Straighter than Contender, bear over a longer period and are easy to pick. Excellent color. Annual. Cultivar. Seed.

PI 549615 to 549638. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States.
Received 1961.

PI 549615 **origin:** United States. **cultivar:** BLUE LAKE BLACK SEEDED.
remarks: Maturity 65 days. Vines 5 feet, dark green. Pods 7", straight, round, stringless. Resistant to common bean mosaic. Seeds black. Garden and canning variety. Annual. Cultivar. Seed.

PI 549616 **origin:** United States. **cultivar:** BOUNTIFUL CANNER.
remarks: Maturity 53 days. Growth habit very similar to regular Bountiful, but gives higher yield. Fibre analysis very much lower, therefore, an ideal bean for French-style pack. Annual. Cultivar. Seed.

PI 549617 **origin:** United States. **cultivar:** EARLIGREEN. **remarks:** Developed for canning and adapted to mechanical harvesting. Early and prolific. Resistant to common bean mosaic. Maturity 50 days. Plants 14-15" tall, erect, compact, leaves small, dark green. Pods 5-1/2" x 3/8" round straight, smooth, light green, stringless. Seeds white, round, slender. Annual. Cultivar. Seed.

PI 549618 **origin:** United States. **cultivar:** EARLIWAX. **remarks:** Particularly adapted to canning and freezing with very good color development in smaller sizes. Resistant to common bean mosaic. Must be harvested early as fiber and seed develop rapidly. Maturity 54 days. Plants 16-18" tall, erect. Pods 5-6" long x 3/8", deep yellow, round. Seeds white. Annual. Cultivar. Seed.

PI 549619 **origin:** United States. **cultivar:** FULL MEASURE IMPROVED.
remarks: Maturity 60 days. Pods 6" , fairly straight, round, dark green, stringless. Seeds reddish brown, mottled with buff. For garden and canning. Annual. Cultivar. Seed.

PI 549620 **origin:** United States. **cultivar:** FULLGREEN. Annual. Cultivar. Seed.

PI 549615 to 549638-continued

- PI 549621 **origin:** United States. **cultivar:** HIGRADE. **remarks:** Pods 6" long, plump and fleshy, straight, round, smooth, stringless, medium dark green color and low in fiber. Upright bush well adapted to mechanical harvest. High yielding white seeded Tendergreen type of fine quality recommended for large size cuts and French-style packs. Mosaic resistant. Maturity 60 days. Annual. Cultivar. Seed.
- PI 549622 **origin:** United States. **cultivar:** HIGRADE IMPROVED. **remarks:** Pods 6" long, plump and fleshy, straight, round, smooth, stringless, medium dark green color and low in fiber. Upright bush well adapted to mechanical harvest. High yielding white seeded Tendergreen type of fine quality recommended for large size cuts and French-style packs. Mosaic resistant. Maturity 60 days. Annual. Cultivar. Seed.
- PI 549623 **origin:** United States. **cultivar:** IDAGREEN. Annual. Cultivar. Seed.
- PI 549624 **origin:** United States. **cultivar:** IMPROVED SUPERGREEN. **remarks:** Retains heavy pod set of original release. MOSAIC RESISTANT. Pods 6-7 inches long, slim, smooth, round, dark green & stringless. Seed: Brownish purple, mottled faun. Annual. Cultivar. Seed.
- PI 549625 **origin:** United States. **cultivar:** IMPROVED TENDERGREEN. Annual. Cultivar. Seed.
- PI 549626 **origin:** United States. **cultivar:** LOGAN. **remarks:** Maturity 55 days. Resistant to adverse conditions in the Southeast. Resistant to common bean mosaic and powdery mildew. Susceptible to halo blight. Pods 6" x 3/8", will set in hot weather, but are borne rather low, round, green, stringless, relatively resistant to spotting from bacterial blight. Seeds chocolate brown, mottled with dun, 70 per oz. Annual. Cultivar. Seed.
- PI 549627 **origin:** United States. **cultivar:** LONGREEN. Annual. Cultivar. Seed.
- PI 549628 **origin:** United States. **cultivar:** SENSATION REFUGEE 1066. Annual. Cultivar. Seed.
- PI 549629 **origin:** United States. **cultivar:** SLENDERWHITE. **remarks:** Processing and fresh market variety that is well adapted to mechanical harvest. Plants upright, medium height, vigorous, and productive. Resistant to common bean mosaic. Pods 5-6" long, smooth, slender, round, medium dark green. Somewhat fibrous in larger sieve sizes. Maturity 56 days. Seed white. Annual. Cultivar. Seed.

PI 549615 to 549638-continued

- PI 549630 **origin:** United States. **cultivar:** SLIMGREEN. **remarks:** Pods 5 1/2 - 6", straight, slim, smooth, round, medium dark green color, stringless. Adaptation for mechanical harvesting and concentration of pod set make this bean one of the heaviest yielding of white seeded beans. Mosaic resistant. Maturity 60 days. Annual. Cultivar. Seed.
- PI 549631 **origin:** United States. **cultivar:** STREAMLINER/GRANDA. **remarks:** Plants 7" long, 1/2 to 9/16" wide, fleshy pods. Quality excellent, stringless, nearly fiberless, fleshy, round to flat, straight. Seed clear white, kidney shape. Excellent as dry bean and outstanding for baking. Maturity 55 days. Annual. Cultivar. Seed.
- PI 549632 **origin:** United States. **cultivar:** TENDERCROP. **remarks:** Developed to replace Tendergreen for processing. Pods slender when mature. Developed by USDA. Grown all over U.S. Standard bush bean for freezers in NW, where it yields very well. Maturity 54 days. Pod 5 1/2 x 3/8". Pod cross section is round, medium green. Used for freezer, market and home garden. Seed purple mottled with buff. Resistance to tolerance to common bean mosaic BV 1, common bean mosaic. Annual. Cultivar. Seed.
- PI 549633 **origin:** United States. **cultivar:** TENDERGREEN. **remarks:** Maturity 50 days. Pods 5 3/4" x 3/8". Standard, general purpose variety now being replaced in many areas by newer disease resistant varieties. Plants medium large, erect, productive. Pods nearly straight, medium green, round, meaty, stringless, and relatively free of fiber. Seeds buff with purple mottling, 65 per oz. Annual. Cultivar. Seed.
- PI 549634 **origin:** United States. **cultivar:** TENDERGREEN NO 32304. Annual. Cultivar. Seed.
- PI 549635 **origin:** United States. **cultivar:** TENDERWHITE. **remarks:** Bred primarily to meet the processors' demands for a high yielding, uniform color cut bean with low fiber content and adapted to mechanical harvesting. Pods 5 1/2 x 6" long, slender, round, straight, smooth, dark green and stringless. Mosaic resistant. Seed pure white. Used for garden, canning and freezing and variety. Maturity 60 days. Annual. Cultivar. Seed.
- PI 549636 **origin:** United States. **cultivar:** TOPNOTCH WAX IMPROVED. Annual. Cultivar. Seed.

PI 549615 to 549638-continued

PI 549637 **origin:** United States. **cultivar:** WADE BUSH. **remarks:**
Pods exceptionally smooth round, stringless, slender,
dark green, 5-6" long, profusely borne well above ground.
Resistant to common bean mosaic and powdery mildew.
Flavor good. Maturity 56 days. Annual. Cultivar. Seed.

PI 549638 **origin:** United States. **cultivar:** WADEX. **remarks:**
Similar to Wade but has more concentrated pod set, taller
bush, and pods set higher on the bush. Maturity 56 days.
Annual. Cultivar. Seed.

PI 549639. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Seed Research Specialists, California, United States.
Received 1961.

origin: United States. **cultivar:** C-14. **remarks:** Pods 6"
x 3/8", dark green, round. Seeds white. Maturity 54 days.
Used for market, shipping, canning and freezing. Annual.
Cultivar. Seed.

PI 549640. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Florida AES, Florida, United States. Received 1963.

origin: United States. **cultivar:** DADE. **remarks:**
Resistant to rust, common bean mosaic virus, Southern
bean mosaic virus, intumescence and black suture.
Tolerance to temporary flooding. Vigorous, leafy,
runners slow to appear Pods 7 3/4" long, smooth, uniform,
straight with slight curve during fall crop,
flattish-oval in outline, stringless up to several days
past prime. Excellent flavor. Maturity 50 to 60 days.
Seeds white, medium size. Yield high. Annual. Cultivar.
Seed.

PI 549641 to 549643. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Puerto Rico AES, Puerto Rico. Received 1961.

PI 549641 **origin:** United States. **cultivar:** BONITA. Annual.
Cultivar. Seed.

PI 549642 **origin:** United States. **cultivar:** BORINQUEEN. Annual.
Cultivar. Seed.

PI 549643 **origin:** United States. **cultivar:** CRIOLLA. Annual.
Cultivar. Seed.

PI 549644. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Farmer Seed Co., Minnesota, United States. Received 1969.

origin: United States. **cultivar:** ROYALTY PURPLE POD.
remarks: Maturity 51 days. Unusual purple pods delicious fresh or frozen. Good variety in colder soils. Round, tender, stringless pods turn dark green when cooked. Annual. Cultivar. Seed.

PI 549645 to 549659. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1961.

PI 549645 **origin:** United States. **cultivar:** ASGROW BLACK VALENTINE.
remarks: Maturity 50 days. Pods 6 3/4" x 3/8". The standard oval podded variety for fresh market, both local and distant. Plants large, erect, productive. Pods oval, medium green, nearly straight, holding color and texture well in shipping. Seeds black, 90 per oz. Annual. Cultivar. Seed.

PI 549646 **origin:** United States. **cultivar:** FLORIDA BELLE.
remarks: Maturity 59 days. Developed in Florida. Plants medium, considerably resistant to common bean mosaic and several forms of bean rust and mildew. Foliage very dark green. Pods 6 1/2" x 3/8", straight flattened-oval, medium light green, stringless, fairly brittle. Adapted to hot weather on muck and heavier soils. Seeds buff, much mottled with pale purple, 95 per oz. Annual. Cultivar. Seed.

PI 549647 **origin:** United States. **cultivar:** GLADES. **remarks:** Plants vigorous, tall and erect, bearing a heavy yield of pods well off the ground. Pods thick-flat to flat oval, productive, 7 - 12" long, 1/2" wide. Seeds solid black, 90 per oz. Maturity 54 days. Attractive and productive. Annual. Cultivar. Seed.

PI 549648 **origin:** United States. **cultivar:** HARVESTER. **remarks:** Maturity 53 days. Exceptionally heavy yielding. Plants large, vigorous, upright, pod sets high in plant. Resistant to Bean Virus 1 and NY15, tolerant to at least one strain of rust. Widely adapted, Southern Florida, New York, Upper Mid-west. Pods 6" x .33", bright medium green, straight, smooth, thick oval to round. Seeds white, 1610 per lb. Grading fancy as canned, whole, or cut beans. Annual. Cultivar. Seed.

PI 549645 to 549659-continued

- PI 549649 **origin:** United States. **cultivar:** KINGHORN WAX/KINGHORN SPECIAL. **remarks:** Leading wax bean for canning and freezing and home garden use. Resistant to common bean mosaic. Maturity 54 days. Plants 16-18" tall, erect, medium green foliage. Extended harvest period. Pods 6" x 3/8", round to creaseback in larger sizes, curved, pale yellow with some tinge of green in small sizes, stringless, very slow fiber development. Seed white, long, round. Annual. Cultivar. Seed.
- PI 549650 **origin:** United States. **cultivar:** RANGER. **remarks:** Maturity 56 days. Pods 5" x 3/8". Distinctive, white seeded variety. Plants spreading, with half runners, very productive, heavy crown set followed by additional pods borne in clusters on extending racemes. Resistant to common bean mosaic and to powdery mildew. Pods round, mostly straight, stringless, silvery green, free from fiber. Seeds white, 110 per oz. Exceptional quality for processors. Annual. Cultivar. Seed.
- PI 549651 **origin:** United States. **cultivar:** RESISTANT ASGROW VALENTINE. **remarks:** Similar to Black Valentine but resistant to common bean mosaic and NY 15 virus. Developed for shipping. Maturity 52 days. Plant 16-18" tall, vigorous, erect, medium green foliage. Pods 6-7" x 3/8" oval, straight to slightly curved, medium green color retained well after picking, stringless. Seed black, long oval, slightly flattened. Annual. Cultivar. Seed.
- PI 549652 **origin:** United States. **cultivar:** RESISTANT CHEROKEE. **remarks:** Cherokee Wax type resistant to common bean mosaic and NY 15 virus. Used primarily for shipping and market. Maturity 52 days. Plants 16-18" tall, erect. Pods 6" x 1/2", oval, almost straight, stringless, moderately high in fiber. Seeds black. Annual. Cultivar. Seed.
- PI 549653 **origin:** United States. **cultivar:** SEMINOLE. **remarks:** Maturity 53 days. General purpose variety from Florida Everglades. Plants spreading, finer, and more abundant foliage than Tendergreen, very productive and resistant to common bean mosaic, powdery mildew and some strains of rust. Pods 6" x 3/8", fairly straight, well filled at stem ends, fiberless, of good texture, appearance and flavor. Seeds dark brown with buff mottling, 85 per oz. Annual. Cultivar. Seed.

PI 549645 to 549659-continued

- PI 549654 **origin:** United States. **cultivar:** SPARTAN. **remarks:** Maturity 54 days. A half-runner type, used in the Southeast. Highly resistant to nematodes. Pods 4-5/8 x 3/8", thick-oval, slightly curved, light green, not stringless but of beany flavor. Seeds buff with brown mottline, 120 per oz. Annual. Cultivar. Seed.
- PI 549655 **origin:** United States. **cultivar:** STATE. **remarks:** Nematode resistant half-runner type used in the South and Midwest. Pods oval, slightly curved, light green, not stringless but popular because of their distinctive flavor. Seeds white, 100 per oz. Annual. Cultivar. Seed.
- PI 549656 **origin:** United States. **cultivar:** STRINGLESS BLUE LAKE 228. **remarks:** Maturity 66 days. Widely used strain for early picking. Plants vigorous, productive, resistant to common and Southern bean mosaics and some strains of rust. Pods 6-3/4 x 3/8", medium dark green, round, nearly straight, meaty, stringless at all stages. Seeds white, 90 per oz. Annual. Cultivar. Seed.
- PI 549657 **origin:** United States. **cultivar:** STRINGLESS BLUE LAKE 92. **remarks:** Maturity 62 days. Early strain in Stringless Blue Lake class. Plants relatively open at base, with less foliage than some other strains, resistant to common bean mosaic and some strains of rust. Pods very dark green, fully round, straight, meaty, stringless at all stages, 6-1/2 x 3/8", slow in seed development, holding quality well through larger sizes. Seeds white, 100 per oz. Annual. Cultivar. Seed.
- PI 549658 **origin:** United States. **cultivar:** TOP NOTCH GOLDEN WAX. **remarks:** Maturity 51 days. An older variety for home and market. Plants medium small. Pods creamy yellow, straight, flat-oval, 5 1/4" x 1/2". Seeds white with brown eye, 70 per oz. Annual. Cultivar. Seed.
- PI 549659 **origin:** United States. **cultivar:** TOPMOST. **remarks:** Maturity 48 days. White seeded variety for processing. Yield high. Resistant to mosaic. Resembles Topcrop in plant, pod-type and maturity. Seeds white, 80 per oz. Pods 6" x 3/8". Annual. Cultivar. Seed.

PI 549660. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1962.

PI 549660-continued

origin: United States. **cultivar:** POTOMAC. **remarks:** Maturity 60 days. Of Ideal Market type but better climbing entirely stringless, and resistant to common bean mosaic and some strains of rust. Plants vigorous, good climbers, very productive. Pods 6" x 3/8", nearly round, straight, smooth, dark green, stringless at all stages, meaty with fine flavor. Seeds black, 100 per oz. Annual. Cultivar. Seed.

PI 549661 to 549662. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Corneli, Missouri, United States. Received 1963.

PI 549661 **origin:** United States. **cultivar:** K BUSH BEAN. **pedigree:** Corneli 14/B.3076 USDA. **remarks:** White seeded bush type snap bean. Resistant to Tobacco mosaic virus. High yield, stringless, very low fiber content. Pods round, 5-6" long, slim, 6/16" diameter, two shades darker than Corneli. Plant high, good for mechanical harvesting. Used for deepfreezing. Annual. Cultivar. Seed.

PI 549662 **origin:** United States. **cultivar:** UNRIVALLED WAX. Annual. Cultivar. Seed.

PI 549663. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Kellogg Seed Co, California, United States. Received 1961.

origin: United States. **cultivar:** CUTSHORT (RED SPECKLED). **remarks:** Plants medium to large, very productive over long season. Foliage abundant. Flowers white. Pods medium to dark green, shape round, broad oval in cross section, 4-5 seeds per pod. Obsolete variety. Annual. Cultivar. Seed.

PI 549664 to 549665. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States. Received 1961.

PI 549664 to 549665-continued

PI 549664 **origin:** United States. **cultivar:** GALLATIN NO 50.
remarks: New bean, also developed by GVS, is similar to Tendercrop except in seed color. This bean has cream colored or ivory colored seed. Produces 4-3/4 to 5 1/4 inch dark green, round pods that are of excellent quality because of low fiber, fine texture, distinctive color, and flavor. Used by canners and freezers. Believe that this is a new seed color in beans. Annual. Cultivar. Seed.

PI 549665 **origin:** United States. **cultivar:** WHITE SEEDED CONTENDER.
remarks: Bean very similar to regular Contender except in color of seed. Pods oval, curved, long. Some fiber develops in later stages. Used in pureed baby foods and in fresh market shipping. Annual. Cultivar. Seed.

PI 549666 to 549677. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Idaho AES, Idaho, United States. Received 1962.

PI 549666 **origin:** United States. **cultivar:** COLUMBIA PINTO.
Annual. Cultivar. Seed.

PI 549667 **origin:** United States. **cultivar:** GREAT NORTHERN 1140.
Annual. Cultivar. Seed.

PI 549668 **origin:** United States. **cultivar:** GREAT NORTHERN UI-123.
Annual. Cultivar. Seed.

PI 549669 **origin:** United States. **cultivar:** GREAT NORTHERN UI-15.
Annual. Cultivar. Seed.

PI 549670 **origin:** United States. **cultivar:** GREAT NORTHERN UI-16.
Annual. Cultivar. Seed.

PI 549671 **origin:** United States. **cultivar:** GREAT NORTHERN UI-31.
Annual. Cultivar. Seed.

PI 549672 **origin:** United States. **cultivar:** GREAT NORTHERN UI-59.
Annual. Cultivar. Seed.

PI 549673 **origin:** United States. **cultivar:** GREAT NORTHERN UI-81.
Annual. Cultivar. Seed.

PI 549674 **origin:** United States. **cultivar:** LIGHT RED KIDNEY.
Annual. Cultivar. Seed.

PI 549675 **origin:** United States. **cultivar:** PINTO UI-111. Annual.
Cultivar. Seed.

PI 549666 to 549677-continued

PI 549676 **origin:** United States. **cultivar:** PINTO UI-72. Annual.
Cultivar. Seed.

PI 549677 **origin:** United States. **cultivar:** PINTO UI-78. Annual.
Cultivar. Seed.

PI 549678. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: California AES, California, United States. Received
1962.

origin: United States. **cultivar:** RED KIDNEY. **remarks:**
Bush type. Plants large, upright growth. Flowers pink.
Seeds large, light red to pinkish. Maturity early.
Annual. Cultivar. Seed.

PI 549679 to 549682. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Eastern State Farmers, United States. Received 1962.

PI 549679 **origin:** United States. **cultivar:** EASTERN HORTICULTURAL.
remarks: Plants entirely free from runners. Produces more
pods than French's Horticultural. When ready to harvest,
pods are similar to French's Horticultural in color and
average 1/2" longer. Eastern States strain. Maturity 85
days. Annual. Cultivar. Seed.

PI 549680 **origin:** United States. **cultivar:** FRENCH'S HORTICULTURAL.
remarks: Maturity 68 days. New England green shelled
variety. Plants compact, with short runners. Pods 7" x
5/8", attractive but stringy, with heavy splashing of
deep carmine. Seeds pinkish buff, mottled and streaked
with ox-blood red, 60 per oz. Annual. Cultivar. Seed.

PI 549681 **origin:** United States. **cultivar:** LOWS CHAMPION.
remarks: Maturity 55 days. Pods 5" x 5/8", straight, flat,
stringless, good flavor. Plants large, spreading. Seeds
deep red, white eye, 50 per oz. Used primarily for
processing both as snap beans and for green shelled
beans. Annual. Cultivar. Seed.

PI 549682 **origin:** United States. **cultivar:** SOLDIER. **remarks:**
Maturity 80 days. Pried for its quality as a baking bean.
Pods 5-1/2" long, straight. Slender seeds are marked with
a characteristic soldier in maroon. Eastern States
strain. Annual. Cultivar. Seed.

PI 549683. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Louisiana AES, Louisiana, United States. Received 1963.

origin: United States. **cultivar:** WHITE SEEDED CANFREEZER. **pedigree:** Canfreezer/Blue Lake. **remarks:** Pole bean. Pencil type, 5-1/2 to 6" long and round. Prolific yielder produces heavy crops of dark green beans from ground to top of vine. Excellent for canning, freezing and fresh use: skin does not fluff off, pods remain firm and hold color. High resistance to rust. High yield, spring and fall. Tested under Louisiana conditions. Annual. Cultivar. Seed.

PI 549684 to 549685. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Corneli, Missouri, United States. Received 1962.

PI 549684 **origin:** United States. **cultivar:** MCCASLAN NO 42. **remarks:** Productivity greatly increased over McCaslan. Prolific pod set may result in uneven pod length if moisture and/or nutrients are limited. For shipping, market and home garden. Maturity 66 days. Plants 5 to 5 1/2 feet tall, vigorous. Pods 7-8" x 3/8-1/2", thick-flat, straight, fairly smooth, medium green, slightly stringy and fibrous but good quality at optimum maturity. Seeds white, flat. Annual. Cultivar. Seed.

PI 549685 **origin:** United States. **cultivar:** MOUNTAINEER. **pedigree:** Mountaineer is the product of an heirloom project in which the University of W. Virginia collected samples of over 100 strains of White Half Runner type beans that had been propagated by gardeners in the state. **remarks:** Early, productive, and has complete absence of fiber in all edible stages. Resistant to common bean mosaic. Plant vigorous and leafy, with medium long runners. Pods about 4" long and 3/8" wide, oval to almost round in cross-section, medium light green, stringy but fiberless at all edible stages. Seed white, oblong with round to oval cross-section. 1,400 per pound. Used for home garden. Annual. Cultivar. Seed.

PI 549686 to 549690. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: New Hampshire AES, New Hampshire, United States. Received 1962.

PI 549686 **origin:** United States. **cultivar:** RED SHELLOUT. **remarks:** Pods red splashed. Seeds attractive, glossy, two-tone red and dark red, somewhat speckled. Used as a green shell bean, shelled out at the not quite ripe stage, seeds used in succotash, etc. Annual. Cultivar. Seed.

PI 549686 to 549690-continued

- PI 549687 **origin:** United States. **cultivar:** ROYALTY. Annual. Cultivar. Seed.
- PI 549688 **origin:** United States. **cultivar:** SCARLET BEAUTY. Annual. Cultivar. Seed.
- PI 549689 **origin:** United States. **cultivar:** SHELLEASY. Annual. Cultivar. Seed.
- PI 549690 **origin:** United States. **cultivar:** TINY GREEN. Annual. Cultivar. Seed.

PI 549691 to 549695. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Michigan AES, Michigan, United States. Received 1962.

- PI 549691 **origin:** United States. **cultivar:** CHARLEVOIX. **remarks:** Dark red kidney bean. Resistant to the two races of bean anthracnose commonly found in Michigan. Susceptible to seed borne halo and common bacterial blights. Maturity 90 days. Annual. Cultivar. Seed.
- PI 549692 **origin:** United States. **cultivar:** GRATIOT. **remarks:** Bush type navy bean. Fully resistant to both bean anthracnose and common bean mosaic. Tends to escape Sclerotinia wilt or white mold. Excellent plant type, matures rapidly, and has good canning quality. Annual. Cultivar. Seed.
- PI 549693 **origin:** United States. **cultivar:** MICHELITE-62. **remarks:** Superior re-selection made from Michelite foundation seed fields. Greater uniformity of seed type, plant type, maturity and appearance, and is completely resistant to common bean mosaic strain 1. Annual. Cultivar. Seed.
- PI 549694 **origin:** United States. **cultivar:** SAGINAW. **remarks:** Mid-season mosaic and anthracnose resistant navy bean. Annual. Cultivar. Seed.
- PI 549695 **origin:** United States. **cultivar:** SANILAC. **remarks:** Plants have determinate growth habit, 14-21" tall. Pods 3 to 3 1/2". Seeds uniform in size and shape, white and smooth coated. Early maturing. Satisfactory canning quality. Resistant to common bean mosaic virus and sclerotinia wilt. Also resistant to several varieties of anthracnose and to halo blight. Annual. Cultivar. Seed.

PI 549696 to 549699. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Northrup, King & Co, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1962.

PI 549696 **origin:** United States. **cultivar:** ABUNDA. **remarks:** Dwarf or snap green podded bean. Maturity 53 days. Plants 18-21" tall, vigorous and very productive. Pods 5 1/2 - 6" x 3/8", round, medium green straight. Seed pure white. Resistant to common bean mosaic. Pod set high on plant. Annual. Cultivar. Seed.

PI 549697 **origin:** United States. **cultivar:** EXECUTIVE. **remarks:** Maturity 56 days. Meaty pleasant flavored bean with dark green, smooth, full rounded, slightly curved pods about 6" long containing light buff colored seeds. Successive crops suggested because of Executive's concentrated yield. Annual. Cultivar. Seed.

PI 549698 **origin:** United States. **cultivar:** NK SPRITE. **other id:** NK 125. **remarks:** Maturity 54 days. Plants 16-18", vigorous, very productive, upright habit, resistant to common bean mosaic. Pods 5 to 5 1/2" long, slim, medium green, straight, near round. Seeds white. Pod slim and should be harvested at proper edible stage. For processing, should be harvested when 80% or more in four sieve size. Annual. Cultivar. Seed.

PI 549699 **origin:** United States. **cultivar:** NK VIP. **other id:** NK 107-20. **remarks:** Maturity 56 days. Plants 19-20", with upright habit. Pods set well up on plant. Pods 5 1/2" to 6", round, smooth, nonpubescent, medium green, fleshy. Very free of fiber. Excellent taste quality, slightly creaseback at late maturity. Seeds white. Very productive new white seeded variety with firm round pod and very sweet taste. Annual. Cultivar. Seed.

PI 549700 to 549707. Phaseolus vulgaris L. FABACEAE Bean

Donated by: California Crop Imp Assoc., California, United States. Received 1962.

PI 549700 **origin:** United States. **cultivar:** CALIFORNIA SMALL RED 54. **remarks:** Selection from commercial Mexican Red seed, selected for seed color, seed size and yield. Vine type bean with white flowers. Seeds cherry red, fading to pink after cooking. Annual. Cultivar. Seed.

PI 549701 **origin:** United States. **cultivar:** CRANBERRY. **remarks:** Full trailing vine. Flowers white. Seed pods splashed with red. Seeds buff with reddish mottling, almost round, splits easily. Annual. Cultivar. Seed.

PI 549700 to 549707-continued

- PI 549702 **origin:** United States. **cultivar:** F M 53 SMALL WHITE.
remarks: Small vine development, more compact than Small White 38. Concentrated seed set, pods and flowers similar to Small White 38 and the seed is slightly larger. Maturity 10-14 days earlier than Small White 38 but as much as 3 weeks difference in harvest when planted early. High degree of resistance to mosaic. Annual. Cultivar. Seed.
- PI 549703 **origin:** United States. **cultivar:** SMALL WHITE 38.
remarks: Vine short. Flowers white. Seeds small, white. Maturity late. Annual. Cultivar. Seed.
- PI 549704 **origin:** United States. **cultivar:** SMALL WHITE 59.
remarks: Similar to Small White 38 in appearance and maturity. Vine short. Flowers white. Seeds white, small. Maturity late. Annual. Cultivar. Seed.
- PI 549705 **origin:** United States. **cultivar:** STANDARD PINK 38.
remarks: Vine short. Flowers white. Seed light pink. Maturity midseason. Annual. Cultivar. Seed.
- PI 549706 **origin:** United States. **cultivar:** SUTTER PINK. **remarks:**
Vine short. Flowers white. Seeds bright pink. Maturity very early. Annual. Cultivar. Seed.
- PI 549707 **origin:** United States. **cultivar:** WHITE KIDNEY. **remarks:**
Bush type. Flowers white. Similar to Red Kidney except for white seed color. Maturity midseason. Annual. Cultivar. Seed.

PI 549708. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Robson, New York, United States. Received 1962.

origin: United States. **cultivar:** SENECA INDIAN.
remarks: Said to be productive, of high quality as a dry bean. Alleged to be free of cause of flatulence. Annual. Cultivar. Seed.

PI 549709. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Hawaii AES, Hawaii, United States. Received 1962.

origin: United States. **cultivar:** HAWAIIAN WONDER.
Annual. Cultivar. Seed.

PI 549710 to 549711. Phaseolus vulgaris L. FABACEAE Bean

Donated by: H G Hastings Co, Georgia, United States. Received 1962.

PI 549710 **origin:** United States. **cultivar:** HASTINGS GENUINE CORNFIELD. **remarks:** Maturity 72 days. Older variety still preferred in some areas. Pods thick oval, straight, medium green, with purple mottling at later stages, fleshy and of good flavor, becoming stringy and fibrous, 6 x 7/16". Seeds tan with brown mottling and stripes, 120 per oz. Annual. Cultivar. Seed.

PI 549711 **origin:** United States. **cultivar:** HASTINGS WHITE CORNFIELD. **remarks:** Maturity 80 days. Popular in the South for green snap and dry shelled beans. Plant vigorous and prolific with long bearing period. Pods 5" x 1/2", medium green, round. Seeds white, 110 per oz. Annual. Cultivar. Seed.

PI 549712 to 549715. Phaseolus vulgaris L. FABACEAE Bean

Donated by: New Mexico AES, New Mexico, United States. Received 1962.

PI 549712 **origin:** United States. **cultivar:** LUNA. **remarks:** Outstanding in yield. Resistant to the bean rust races prevalent in New Mexico. Annual. Cultivar. Seed.

PI 549713 **origin:** United States. **cultivar:** NEW MEXICO 2574. **remarks:** High yield, easy-to-cook pinto bean. Maturity 72 days. Seeds uniformly large. Annual. Cultivar. Seed.

PI 549714 **origin:** United States. **cultivar:** NEW MEXICO 295. **remarks:** Good yield and adaptation to the irrigated areas of southern New Mexico. Annual. Cultivar. Seed.

PI 549715 **origin:** United States. **cultivar:** NEW MEXICO 641. **remarks:** Good yield and adaptation to dry-land and high-mountain area. Annual. Cultivar. Seed.

PI 549716 to 549717. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Michigan AES, Michigan, United States. Received 1963.

PI 549716 **origin:** United States. **cultivar:** SEAWAY. **remarks:** Early maturing. Fully resistant to common bean mosaic virus. Very early maturing (2 weeks earlier than Michelite) with consistently high yield. Seed resembles Sanilac in shape and quality. Acceptable canning quality. Annual. Cultivar. Seed.

PI 549716 to 549717-continued

PI 549717 **origin:** United States. **cultivar:** SPARTAN ARROW.
remarks: Yield high. Flavor good. Pod flesh firm in advance of maturity, easy separation from plant, concentrated production. Pods oval, medium green, straight, 5" - 6 1/2", smooth. Seeds light buff, elongate-oval, medium-sized, good germination quality. Foliage not dense, small leaves, 22-24" high. Resistant to common mosaic virus and some rust. Annual. Cultivar. Seed.

PI 549718. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Joseph Harris Co, Inc, Moreton Farm, Rochester, New York, United States. Received 1963.

origin: United States. **cultivar:** KING HORTICULTURAL.
remarks: Plants uniform, attractive and heavy-yielding. Widely grown both as snap or green-shelled pole bean. Pods broad, stringless, shorter and broader than French Horticultural with larger, rounder seed and almost as good coloring. On good, well-drained land it can be grown without support. Annual. Cultivar. Seed.

PI 549719 to 549720. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1963.

PI 549719 **origin:** United States. **cultivar:** GIANT STRINGLESS GREEN POD. **remarks:** Standard variety for home garden and frequently used for canning and market. Stringless. Color medium green. Pod 6 1/2" long, width 3/8" with round section. Seed glossy, yellowish-brown. Maturity 53 days. Annual. Cultivar. Seed.

PI 549720 **origin:** United States. **cultivar:** ITALIAN OR ROMANO.
remarks: Maturity 60 days. Distinctive flavor and heavy yield. Pods long, stringless, wide, tender, meaty. Excellent for small home gardens. Good for freezing. Annual. Cultivar. Seed.

PI 549721 to 549740. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Idaho AES, Idaho, United States. Received 1963.

PI 549721 **origin:** United States. **cultivar:** ASHLEY WAX. Annual. Cultivar. Seed.

PI 549721 to 549740-continued

- PI 549722 **origin:** United States. **cultivar:** BUSH GREENPOD. Annual Cultivar. Seed.
- PI 549723 **origin:** United States. **cultivar:** COOPER WAX. Annual. Cultivar. Seed.
- PI 549724 **origin:** United States. **cultivar:** DARK RED KIDNEY. **remarks:** Maturity 100 days. Standard commercial variety. Used for canning and dry beans. Pods 5 1/2" x 1/2", oval flat, waxy, medium green, stringy and inedible. Seeds deep mahogany red. Annual. Cultivar. Seed.
- PI 549725 **origin:** United States. **cultivar:** DIXIE BELL. Annual. Cultivar. Seed.
- PI 549726 **origin:** United States. **cultivar:** FLORIDA WHITE WAX. Annual. Cultivar. Seed.
- PI 549727 **origin:** United States. **cultivar:** GOLDEN GEM. Annual. Cultivar. Seed.
- PI 549728 **origin:** United States. **cultivar:** MEDAL REFUGEE. Annual. Cultivar. Seed.
- PI 549729 **origin:** United States. **cultivar:** MICHELITE. **remarks:** Variety of white navy bean. Seed white, oval, medium size. (Michelite-62 is considered an improvement on this old variety). Annual. Cultivar. Seed.
- PI 549730 **origin:** United States. **cultivar:** MICHIGAN CRANBERRY. Annual. Cultivar. Seed.
- PI 549731 **origin:** United States. **cultivar:** RED MEXICAN UI-3. Annual. Cultivar. Seed.
- PI 549732 **origin:** United States. **cultivar:** RED MEXICAN UI-34. Annual. Cultivar. Seed.
- PI 549733 **origin:** United States. **cultivar:** RED MEXICAN UI-35. Annual. Cultivar. Seed.

PI 549721 to 549740-continued

- PI 549734 **origin:** United States. **cultivar:** RED MEXICAN UI-36.
pedigree: Red Mexican UI-36 was selected from among the progeny of a cross between two beans released by the University of Idaho -- Great Northern UI-56 and Red Mexican UI-34. Progeny was carried through 8 generations of selection. **remarks:** Developed for both a midseason and an early-season Red Mexican bean for Idaho growers. Improved variety resistant to both the Type and the A strains of common bean-mosaic virus and the curly top virus. Seed coat color is more uniform from seed to seed and is more attractive darker red than that of presently grown commercial types. Annual. Cultivar. Seed.
- PI 549735 **origin:** United States. **cultivar:** RED MEXICAN UI-37.
pedigree: Red Mexican UI-37 was selected from among the progeny of a cross between two beans released by the University of Idaho -- Great Northern UI-56 and Red Mexican UI-34. Progeny was carried through 8 generations of selection. **remarks:** Developed for both a midseason and early-season Red Mexican bean for Idaho growers. Improved variety resistant to both Type & the A strains common bean-mosaic virus and curly top virus. Distinguished by extreme early maturity and upright growth. Seed coat color superior to present commercial types but the uniformity of color from seed to seed is not improved. Annual. Cultivar. Seed.
- PI 549736 **origin:** United States. **cultivar:** RED VALENTINE.
remarks: Maturity 54 days. Stringless version of original Red Valentine used in home gardens in some areas. Pods medium green, creasebacked, brittle, curved, 4-1/2 x 3/8". Seeds purplish red, mottled with pale buff, 80 per oz. Annual. Cultivar. Seed.
- PI 549737 **origin:** United States. **cultivar:** RIALTO GREEN POLE.
remarks: Maturity 60 days. Stringless, white-seeded Kentucky Wonder type. Resistant to powdery mildew, some strains of rust and common bean mosaic. Plants vigorous, productive and early maturing. Pods 7" x 7/16", dark green, thick flat, smooth, firmly straight, meaty, stringless at all stages, fine flavor and texture. Seeds white, 80 per oz. Annual. Cultivar. Seed.
- PI 549738 **origin:** United States. **cultivar:** SCOUT OR PINTO US 1540.
remarks: Resistant to most known races of rust, common bean mosaic and has some resistance to curly top. Leaves light green. Stems fine. Seeds small, more per pod than Idaho III. Annual. Cultivar. Seed.

PI 549721 to 549740-continued

PI 549739 **origin:** United States. **cultivar:** UI 74. **remarks:** Maturity 90 days. Plants medium bush type, 14-16" tall. Seed small, white, oval-round, 187 per oz. Resistant to common bean mosaic virus, but susceptible to curly-top virus. Annual. Cultivar. Seed.

PI 549740 **origin:** United States. **cultivar:** YELLOW EYE. **remarks:** Semi-vining variety. Seed large, round to oblong, white with yellow spot on hilum. Annual. Cultivar. Seed.

PI 549741 to 549743. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Northrup, King & Co, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1963.

PI 549741 **origin:** United States. **cultivar:** EXECUTIVE BUSH SNAP. **remarks:** Maturity 56 days. Meaty pleasant flavored bean with dark green, smooth, full rounded, slightly curved pods about 6" long containing light buff colored seeds. Successive crops suggested because of Executive's concentrated yield. Annual. Cultivar. Seed.

PI 549742 **origin:** United States. **cultivar:** KENTUCKY WONDER. **remarks:** Maturity 65 days. In many areas the standard among home garden varieties for flavor and texture. Plants vigorous, productive, tall, climbing well. Pods 9" x 1/2", thick-flat, long, curved, meaty, brittle, fiberless, of distinctive and pleasing flavor. High productivity, free of flat pods. Seeds coffee brown, 80 per oz. Annual. Cultivar. Seed.

PI 549743 **origin:** United States. **cultivar:** MOSAIC RESISTANT TENDERGREEN. **remarks:** Maturity 54 days. Plants 18-20" tall, upright, dark green leaves. Pods 5 1/2 x 3/8" near round, medium dark green and stringless. Seed dark purple, mottled with tan. A more productive variety of the Tendergreen type. Pods scattered and set well off the ground. Annual. Cultivar. Seed.

PI 549744 to 549746. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Seed Research Specialists, California, United States. Received 1963.

PI 549744 **origin:** United States. **cultivar:** 5494-2. Annual. Cultivar. Seed.

PI 549745 **origin:** United States. **cultivar:** BLS. Annual. Cultivar. Seed.

PI 549744 to 549746-continued

PI 549746 **origin:** United States. **cultivar:** SRS-PT. Annual.
Cultivar. Seed.

PI 549747 to 549750. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Idaho USDA, ARS, Idaho, United States. Received 1963.

PI 549747 **origin:** United States. **cultivar:** PINTO 1. Annual.
Cultivar. Seed.

PI 549748 **origin:** United States. **cultivar:** PINTO 14. Annual.
Cultivar. Seed.

PI 549749 **origin:** United States. **cultivar:** PINTO 5. Annual.
Cultivar. Seed.

PI 549750 **origin:** United States. **cultivar:** U S 5 REFUGEE.
remarks: Immune to common bean mosaic, but not resistant to yellow mosaic. Very prolific with straight, 5-1/2", round, stringless pods without purple splashes of Stringless Green Refugee. Dun colored seeds splashed and mottled brown. Large spreading bush, dense, smooth foliage. Annual. Cultivar. Seed.

PI 549751. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Illinois AES, Illinois, United States. Received 1965.

origin: United States. **cultivar:** SCOTIA. **remarks:**
Selection of Scotia bean (TMV strain) susceptible to tobacco mosaic virus for standardized virology procedures for assaying tobacco mosaic virus by the local lesion method. Annual. Cultivar. Seed.

PI 549752. Phaseolus vulgaris L. FABACEAE Bean

Donated by: W. Atlee Burpee Co., Pennsylvania, United States.
Received 1968.

origin: United States. **cultivar:** RICHGREEN. **remarks:**
Maturity 56 days. Dark green Wade type bush bean. Rich green color is carried all the way through the round, smooth, 5-1/2 to 6" pods. Excellent, high-yielding, mosaic-resistant variety with real eye appeal. Ideal for fresh market sale, canning and freezing. Annual. Cultivar. Seed.

PI 549753 to 549755. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1963.

PI 549753 **origin:** United States. **cultivar:** STRINGLESS BLUE LAKE 231. **remarks:** Maturity 70 days. Standard variety for main crop. Plants heavy, vigorous, and very productive, resistant to common bean mosaic and some strains of rust. Pods 6 3/4" x 3/8", very dark green, nearly round, straight, fleshy, stringless at all stages, holding quality well through larger sizes. Seeds white, 100 per oz. Annual. Cultivar. Seed.

PI 549754 **origin:** United States. **cultivar:** WHITE SEEDED TENDERCROP. **remarks:** Similar to Tendercrop, suitable for canning and freezing. Adapted to mechanical harvest. Resistant to common bean mosaic, NY15 and pod mottle virus. Maturity 55 days. Plants 16-19", erect, leaves large, moderately dense, pod set moderately concentrated. Pods 4 1/2" x 5-1/2 x 3/16", medium to dark green, straight, smooth, round to creaseback in large stringless, low fiber and seed development. Seed white. Annual. Cultivar. Seed.

PI 549755 **origin:** United States. **cultivar:** WHITE SEEDED TENDERGREEN. **remarks:** Maturity 50 days. Plants medium large, upright, relatively open, somewhat irregular, vigorous, acceptable type for mechanical harvesting. Pods 5.5" x .37", round, somewhat curved, medium dark green, meaty, firm and relatively slow in seed development. Good quality for cut and French-style pack. Not resistant to Bean Virus 1 or NY 15. Seeds white, 1600 per lb. Annual. Cultivar. Seed.

PI 549756 to 549757. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Idaho AES, Idaho, United States. Received 1969.

PI 549756 **origin:** United States. **cultivar:** IDACHIEF. **remarks:** Plants upright, sturdy. Pods long, slim, set high and concentrated. Resistant to Curly Top, Common Mosaic (BV1 and BV1A Summer Death, Subterranean Clover Stunt Virus, some races of rust and powdery mildew. Annual. Cultivar. Seed.

PI 549757 **origin:** United States. **cultivar:** IDAGEM. **remarks:** Resistant to Curly Top and Common Bean Mosaic (BV1 and BV1A) viruses. Prolific and early. Annual. Cultivar. Seed.

PI 549758 to 549800. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wyoming USDA, ARS, Wyoming, United States. Received 1963.

- PI 549758 **origin:** United States. **cultivar:** HIDATRA RED. Annual. Cultivar. Seed.
- PI 549759 **origin:** United States. **cultivar:** HIDATSA. Annual. Cultivar. Seed.
- PI 549760 **origin:** United States. **cultivar:** IDAHO PINTO. Annual. Cultivar. Seed.
- PI 549761 **origin:** United States. **cultivar:** VAR. 43 STR. A. Annual. Cultivar. Seed.
- PI 549762 **origin:** United States. **cultivar:** VAR. 46 STR. A. Annual. Cultivar. Seed.
- PI 549763 **origin:** United States. **cultivar:** VAR. 8 STR. AA. Annual. Cultivar. Seed.
- PI 549764 **origin:** United States. **cultivar:** VAR. 8 STR. BE. Annual. Cultivar. Seed.
- PI 549765 **origin:** United States. **cultivar:** VAR. 8 STR. D. Annual. Cultivar. Seed.
- PI 549766 **origin:** United States. **cultivar:** VAR. 8 STR. F. Annual. Cultivar. Seed.
- PI 549767 **origin:** United States. **cultivar:** VAR. 8 STR. FA. Annual. Cultivar. Seed.
- PI 549768 **origin:** United States. **cultivar:** VAR. 8 STR. MB. Annual. Cultivar. Seed.
- PI 549769 **origin:** United States. **cultivar:** VERMONT CRANBERRY. Annual. Cultivar. Seed.
- PI 549770 **origin:** United States. **cultivar:** WYOMING 00303. Annual. Cultivar. Seed.
- PI 549771 **origin:** United States. **cultivar:** WYOMING 00544. Annual. Cultivar. Seed.
- PI 549772 **origin:** United States. **cultivar:** WYOMING 00552A. Annual. Cultivar. Seed.
- PI 549773 **origin:** United States. **cultivar:** WYOMING 00717. Annual. Cultivar. Seed.

PI 549758 to 549800-continued

- PI 549774 **origin:** United States. **cultivar:** WYOMING 00735. Annual.
Cultivar. Seed.
- PI 549775 **origin:** United States. **cultivar:** WYOMING 24887. Annual.
Cultivar. Seed.
- PI 549776 **origin:** Africa. **cultivar:** WYOMING 25431. Annual.
Cultivar. Seed.
- PI 549777 **origin:** USSR. **cultivar:** WYOMING 27660. Annual.
Cultivar. Seed.
- PI 549778 **origin:** USSR. **cultivar:** WYOMING 27676. Annual.
Cultivar. Seed.
- PI 549779 **origin:** USSR. **cultivar:** WYOMING 27692. Annual.
Cultivar. Seed.
- PI 549780 **origin:** USSR. **cultivar:** WYOMING 27702. Annual.
Cultivar. Seed.
- PI 549781 **origin:** USSR. **cultivar:** WYOMING 27702A. Annual.
Cultivar. Seed.
- PI 549782 **origin:** United States. **cultivar:** WYOMING 27811. Annual.
Cultivar. Seed.
- PI 549783 **origin:** United States. **cultivar:** WYOMING 27824. Annual.
Cultivar. Seed.
- PI 549784 **origin:** China. **cultivar:** WYOMING 27863. Annual.
Cultivar. Seed.
- PI 549785 **origin:** China. **cultivar:** WYOMING 27865. Annual.
Cultivar. Seed.
- PI 549786 **origin:** United States. **cultivar:** WYOMING 27866. Annual.
Cultivar. Seed.
- PI 549787 **origin:** United States. **cultivar:** WYOMING 27905. Annual.
Cultivar. Seed.
- PI 549788 **origin:** United States. **cultivar:** WYOMING 28172. Annual.
Cultivar. Seed.
- PI 549789 **origin:** United States. **cultivar:** WYOMING 28172A.
Annual. Cultivar. Seed.
- PI 549790 **origin:** United States. **cultivar:** WYOMING 28204A.
Annual. Cultivar. Seed.

PI 549758 to 549800-continued

- PI 549791 **origin:** United States. **cultivar:** WYOMING 28216C.
Annual. Cultivar. Seed.
- PI 549792 **origin:** India. **cultivar:** WYOMING 28665. Annual.
Cultivar. Seed.
- PI 549793 **origin:** China. **cultivar:** WYOMING 28791. Annual.
Cultivar. Seed.
- PI 549794 **origin:** Africa. **cultivar:** WYOMING 28818. Annual.
Cultivar. Seed.
- PI 549795 **origin:** South Africa. **cultivar:** WYOMING 28822. Annual.
Cultivar. Seed.
- PI 549796 **origin:** South Africa. **cultivar:** WYOMING 28824. Annual.
Cultivar. Seed.
- PI 549797 **origin:** China. **cultivar:** WYOMING 29143. Annual.
Cultivar. Seed.
- PI 549798 **origin:** United States. **cultivar:** WYOMING 29380. Annual.
Cultivar. Seed.
- PI 549799 **origin:** Japan. **cultivar:** WYOMING 29384. Annual.
Cultivar. Seed.
- PI 549800 **origin:** United States. **cultivar:** WYOMING PINTO. Annual.
Cultivar. Seed.

PI 549801. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Seed Research Specialists, California, United States.
Received 1968.

origin: United States. **cultivar:** BLUE LAKE 1502 BUSH.
Annual. Cultivar. Seed.

PI 549802. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Wyoming USDA, ARS, Wyoming, United States. Received
1976.

origin: United States. **cultivar:** GRANDMA TURNERS.
Annual. Cultivar. Seed.

PI 549803. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wyoming USDA, ARS, Wyoming, United States. Received 1962.

origin: United States. **cultivar:** DWARF. Annual.
Cultivar. Seed.

PI 549804. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wyoming USDA, ARS, Wyoming, United States. Received 1963.

origin: United States. **cultivar:** THE PRINCE. Annual.
Cultivar. Seed.

PI 549805. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Colorado AES, Colorado, United States. Received 1963.

origin: United States. **cultivar:** SAN JUAN. Annual.
Cultivar. Seed.

PI 549806 to 549810. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Gill Bros, Oregon, United States. Received 1964.

PI 549806 **origin:** United States. **cultivar:** BLUE VICTOR. **remarks:**
Very popular bean. Pods large, long and somewhat flat in
shape, reddish purple but when cooked the color changes
to light green. Meat thick, of finest quality, and
stringless. One of the finest. Annual. Cultivar. Seed.

PI 549807 **origin:** United States. **cultivar:** GILLS DELICIOUS GIANT.
remarks: Cross between Oregon Giant and Kentucky Wonder,
twice as productive as Oregon Giant, of better quality.
Pod produced in clusters of 4 to 6, the stems of which
protrude outside of foliage. Pods are green, faintly
striped with red lines which disappear when cooked, often
10" long. Very meaty, mild and stringless; ideal for
canning/freezing. Annual. Cultivar. Seed.

PI 549808 **origin:** United States. **cultivar:** GILLS GIANT RED POLE.
remarks: Bean large, bright red when ripe. Vigorous
production of giant pods. Brilliant long shaped seed in
long pods. Easy to shell as butter beans or used for dry
beans. Flavor good. Annual. Cultivar. Seed.

PI 549806 to 549810-continued

PI 549809 **origin:** United States. **cultivar:** ROUND POD KIDNEY WAX.
remarks: Maturity 55 days. Most generally used wax bean for canning and commercial freezing. Stringless, nearly fiber free, pods make an ideal pack for cut or whole beans. Pods 6 x 3/8", light yellow, round. Seeds white, black eye. Annual. Cultivar. Seed.

PI 549810 **origin:** United States. **cultivar:** RUBY DWARF HORTICULTURAL. **remarks:** Maturity 56 days. Pods 4-5", broad, flat, dark green, streaked with red, stringless. Seeds cream splashed with red. Garden variety. Annual. Cultivar. Seed.

PI 549811 to 549815. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: W. Atlee Burpee Co., Pennsylvania, United States.
Received 1964.

PI 549811 **origin:** United States. **cultivar:** BURPEE'S TENDERPOD.
remarks: Maturity 50 days. Most tender and best flavored of all green snap beans. Pods brittle, fleshy, meaty and stringless. For fresh use, canning, and freezing. Productive over a long period. Less affected by adverse weather conditions than most varieties of bush beans. Annual. Cultivar. Seed.

PI 549812 **origin:** United States. **cultivar:** RESISTANT TENDERGREEN.
remarks: Maturity 50 days. Standard variety widely used for freezing. Plants medium large, upright, resistant to BV1 and NY15, vigorous and very productive. Pods 6 x .35", medium dark green, round, nearly straight. Seeds brownish purple, tan mottling, 1300 per lb. Adapted for mechanical picking. High quality frozen pack, either whole, cut or French-style. Annual. Cultivar. Seed.

PI 549813 **origin:** United States. **cultivar:** RUSTPROOF GOLDEN WAX.
remarks: Maturity 50 days. Pods straight, golden yellow, stringless and brittle, broad, flat-oval, 5 - 5 1/2" long. Profuse bearer and quite resistant to bean rust. Dried seeds oval-shaped, shiny white, with reddish brown markings around eye. Annual. Cultivar. Seed.

PI 549814 **origin:** United States. **cultivar:** SURECROP STRINGLESS WAX. **remarks:** Maturity 53 days. Sometimes called Bountiful Wax. Plants large, sturdy, very productive. Pods 5 1/2" x 7/16", thick- flat, golden yellow, brittle, strictly stringless, very little fiber, fine texture and quality. Seeds jet black, 65 per oz. Annual. Cultivar. Seed.

PI 549811 to 549815-continued

PI 549815 **origin:** United States. **cultivar:** WHITE MARROWFAT. **remarks:** Maturity 100 days. Pods well filled with 5 and sometimes 5 clear white beans larger than regular navy beans and of better quality of baking. Pods flat, nearly straight, 4 1/2 to 5" inedible pods. Plants vigorous, heavy producers. Grown mostly as dried beans for winter use. Annual. Cultivar. Seed.

PI 549816. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: California Pacing Corp, United States. Received 1964.

origin: United States. **cultivar:** ROBUST. Annual. Cultivar. Seed.

PI 549817 to 549818. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1964.

PI 549817 **origin:** United States. **cultivar:** HARTER. **remarks:** New variety released by USDA, ready for picking in 53-56 days. Plants grow to height of 18-20", spread of 22". Pods 5-1/2 to 6" long, 5/16" in diameter, round, very slender, smooth, and straight. Used for canning. Annual. Cultivar. Seed.

PI 549818 **origin:** United States. **cultivar:** RESISTANT KINGHORN WAX. **remarks:** Maturity 57 days. Resistant to common bean mosaic and NY 15 virus. White seed and high productivity. For canning, freezing and fresh market. Plants are large, bushy and erect with round to semi-round pods 5-3/4 to 6" long, slightly curved, stringless and light golden yellow. Annual. Cultivar. Seed.

PI 549819 to 549820. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Northrup, King & Co, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1964.

PI 549819 **origin:** United States. **cultivar:** BLUE LAKE STRINGLESS LINE 7. **remarks:** Maturity 63 days. Plants 5 to 6 1/2' tall, vigorous, productive, resistant to common bean mosaic. Good climber, with pod set from base to top of plant. Pods 5 1/2" to 6" x 3/8", straight, round, stringless, of very good quality. Seeds white small. Excellent for freezing and canning, especially in Pacific Northwest. Annual. Cultivar. Seed.

PI 549819 to 549820-continued

PI 549820 **origin:** United States. **cultivar:** NK 204 WAX. **remarks:** Maturity 55 days. Plants 15-18", upright, dark green leaves, productive. Pods 5 to 5 1/2" x 3/8" round, stringless, golden yellow, firm. Seed white. Resistant to BV1. Dark golden interior and exterior color and straight pod. Annual. Cultivar. Seed.

PI 549821 to 549822. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Reuter Seed Co, Louisiana, United States. Received 1964.

PI 549821 **origin:** United States. **cultivar:** HORTICULTURAL. **remarks:** Maturity 70 days. Recommended chiefly as a green or dry shell bean of good flavor that is fine for baking. Pods flat-oval, broad, green, 5-6" long, make delicious snap-shorts if they are used when young. Also called Cranberry or Wren's Egg. Annual. Cultivar. Seed.

PI 549822 **origin:** United States. **cultivar:** STRINGLESS BLACK CREASEBACK. **remarks:** Maturity 60 days. Pods 6-7" long, straight, round, absolutely stringless, tender and of finest eating quality. Vines strong, vigorous, extremely productive and disease resistant. Annual. Cultivar. Seed.

PI 549823. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Reuter Seed Co, Louisiana, United States. Received 1976.

origin: United States. **cultivar:** SAVAGE WONDER. **remarks:** Maturity 62 days. Unusually prolific. Black seeded pole bean. Pods 5-6" in length, medium dark green, round, straight and stringless. Annual. Cultivar. Seed.

PI 549824. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Bean Res Lab, Univ of ID, Idaho, United States. Received 1964.

origin: United States. **cultivar:** IDELIGHT. **remarks:** Produces pods of good processing quality. Resistant to the curly top virus and both the type and A (NY-15) strains of bean virus 1. Annual. Cultivar. Seed.

PI 549825. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Lowdens Plts & Seed, Ontario, Canada. Received 1964.

origin: United States. **cultivar:** EARLY HARVEST.
remarks: Maturity 50 days. Pods medium dark green, 5-1/2 x 7/16", round. Used for shipping and processing. High yielding, white-seeded snap bush variety developed for shipping in areas where Wide, Wadex and Extender are used for spring and fall crops. Vigorous, erect, resistant to bean virus 1 & N.Y.15. Heavier yielding ability and lower fiber content than Harvester. Take at no more than 25% 5's & over. Annual. Cultivar. Seed.

PI 549826. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: T. W. Wood & Sons, Virginia, United States. Received 1964.

origin: United States. **cultivar:** DIXIE WHITE HALF RUNNER. **remarks:** Maturity 50 days. Prolific bearer of 5" pods, stringless when young. Vines 20", bush at bottom with short runners. Beans white. Annual. Cultivar. Seed.

PI 549827. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1964.

origin: United States. **cultivar:** PENCIL POD BLACK WAX.
remarks: Maturity 64 days. High quality variety used primarily for canning and freezing. Plants about 6' tall, very productive. Pods 5-6", dark green, straight, round, stringless, slightly bumpy. Seed development is very slow. Distinct flavor and unexcelled interior texture. Fiberless. Seed white. Annual. Cultivar. Seed.

PI 549828. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Northrup, King & Co, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1966.

origin: United States. **cultivar:** HARVEST KING. **remarks:** Maturity 54 days. Plants 18-20", upright, medium green leaves, productive and vigorous. Pods 5-1/2", round, medium green, medium thick wall. Seeds white. Excellent distribution of pod size. Annual. Cultivar. Seed.

PI 549829. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Utah USDA, ARS, Utah, United States. Received 1965.

origin: United States. **cultivar:** CORBETT REFUGEE.
remarks: Genes for resistance to mosaic virus diseases present. Annual. Cultivar. Seed.

PI 549830. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Joseph Harris Co, Inc, Moreton Farm, Rochester, New York, United States. Received 1965.

origin: United States. **cultivar:** WILD GOOSE. **remarks:** Pods large, fat, fair in quality when young. Shell beans are excellent green or dry. Plants 7-8' tall, good climber. Flowers rose purple. Pods pale green turning to cream yellow streaked with light purple in green shell stage. Not very fleshy, stringless, fiberless, medium texture. 5-6 seeds per pod, flat, straight, oval. Seeds large, very broad, fairly plump to somewhat flattened, oval. Annual. Cultivar. Seed.

PI 549831 to 549832. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Farmer Seed Co., Minnesota, United States. Received 1965.

PI 549831 **origin:** United States. **cultivar:** GLACIER. **remarks:** A finer strain of green podded pole bean boasting white seeds, and superior quality, productiveness and freedom from disease. Grows over 10' tall and produces clusters of splendid quality long podded snap beans. Such a vigorous grower that it keeps on setting new beans, often permitting harvesting both green shell and snap beans at the same time. Annual. Cultivar. Seed.

PI 549832 **origin:** United States. **cultivar:** PRESTIGE. **remarks:** A favorite New Hampshire heirloom variety. This superior big white seeded dry shell bean is a better baker and boasts a wonderful old fashioned bean flavor. Requires less cooking time and ripens dependably in northern areas. Annual. Cultivar. Seed.

PI 549833. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Charter Seed Co, Idaho, United States. Received 1965.

PI 549833-continued

origin: United States. **cultivar:** TENDERETTE. **remarks:** Maturity 55 days. Plant 18-20", quite determinate in flowering, pod set concentrated on upper portion, habit upright, bushy, very vigorous. Pods 5-6", round and slightly creaseback, slender even in older stages, dark green, straight, smooth, stringless, no fiber. Especially satisfactory for color, fleshiness, texture & flavor in canning and freezing. Seeds white, very slow developing. Annual. Cultivar. Seed.

PI 549834. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1965.

origin: United States. **cultivar:** LANDRETH STRINGLESS. **remarks:** Maturity 54 days. Pods 6-7" long, fairly straight, round, dark green. Stringless. Seeds light coffee brown. Garden and canning variety. Annual. Cultivar. Seed.

PI 549835. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Mississippi AES, Mississippi, United States. Received 1965.

origin: United States. **cultivar:** HIGHLANDER. **pedigree:** C-17-6-1/Contender. **remarks:** Plants with upright growth habit. Yield high. Pods slender, long, good color, low fiber content. Pods are borne well upon branches and hold well above soil level. Pressure shear determinates show pods significantly lower in fiber content than other varieties. Plants 17.71". Foliage moderately dense, green. Pods 6.19" long, oval and straight, medium dark green. Seed coat black with buff mottling. Annual. Cultivar. Seed.

PI 549836 to 549838. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1965.

PI 549836 to 549838-continued

PI 549836 **origin:** United States. **cultivar:** BUSH BLUE LAKE.
remarks: Maturity 58 days. Suitable for mechanical harvesting. Plants large, vigorous and productive, but with considerable branchiness and tendency to flop. Resistant to common bean mosaic and NY15 virus. Pods 5 to 5 1/2" x 1/3", round, becoming creaseback, stringless, somewhat rough under adverse conditions. Pod color, texture and flavor equal to pole. Seed small, white. Used for canning and freezing. Annual. Cultivar. Seed.

PI 549837 **origin:** United States. **cultivar:** BUSH BLUE LAKE 274.
remarks: Earlier and more widely adapted than original Bush Blue Lake with higher yield potential, producing longer, straighter, smoother pods of brighter color. Plants are vigorous, heavily branched, larger than the original and more concentrated in pod set. Resistant to common and NY15 bean mosaic virus. Pods are meaty, firm, slow in seed and fiber development. Good for steam table/institutional use. Annual. Cultivar. Seed.

PI 549838 **origin:** United States. **cultivar:** COMET. **remarks:** Maturity 53 days. Plants medium large, upright, productive, vigorous, heavy foliage. Pods 6" x 1/35", medium light green, round, straight, smooth, very firm, relatively slow in forming seed and fiber. Turn bright green after processing. Resistant to common and NY15 bean virus. Seeds white, 1600 per lb. Annual. Cultivar. Seed.

PI 549839. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: H G Hastings Co, Georgia, United States. Received 1965.

origin: United States. **cultivar:** KENTUCKY WONDER (IMP STRAIN). **remarks:** Maturity 65 days. Most widely used pole variety. Very productive, fleshy pods, slightly stringy but fiberless, and distinctively flavored. Pods 6" x 1/2", almost round, indented. Seeds buff or brown. Annual. Cultivar. Seed.

PI 549840. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Michigan AES, Michigan, United States. Received 1968.

origin: United States. **cultivar:** MANITAU. Annual. Cultivar. Seed.

PI 549841. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Lowdens Plts & Seed, Ontario, Canada. Received 1965.

origin: United States. **cultivar:** PROVIDER. **remarks:** Snap bean for home gardens, local market and shipping fresh and for freezing. Resistant to common and NY15 bean mosaic and pod mottle viruses, and is tolerant to powdery mildew. Maturity 48-50 days, with short, concentrated picking season. Plants 15-17", bushy, sturdy. Strong roots. Pods round to heart-shaped, straight, 5-1/4", fleshy, low fiber, tender, stringless, medium dark green, slow to wilt. Annual. Cultivar. Seed.

PI 549842 to 549843. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Washington USDA-ARS, Washington, United States. Received 1965.

PI 549842 **origin:** United States. **cultivar:** TENDERCROP 1821-3. Annual. Cultivar. Seed.

PI 549843 **origin:** United States. **cultivar:** YAKIMA. **remarks:** Green-podded bush snap bean. Resistant to curly top virus and immune to common and NY15 bean mosaic virus. Well adapted to most parts of the country. Plants 18-20" with 20-25" spread, very erect and vigorous, fairly concentrated pod set. Pods 5 to 5-1/2", round, medium diameter, smooth, and straight. Bright green fresh, canned or frozen. Seeds brown-mottled, development is slow. Annual. Cultivar. Seed.

PI 549844. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States. Received 1965.

origin: United States. **cultivar:** ENCORE. **remarks:** Maturity 55 days. Resistant to BV1, NY15, Pot mottle type virus. Plants large, erect, vigorous. Pods 5.5" x .37", round to slightly crease-back, smooth, relatively straight, medium dark green, borne high in plant, fleshy, low in fiber with slow seed development. Good seed quality. Seeds white, 1460 per lb. For canning and freezing. Annual. Cultivar. Seed.

PI 549845. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Western Valley Seed Co., Idaho, United States. Received 1966.

PI 549845-continued

origin: United States. **cultivar:** GREAT NORTHERN UI-61.
remarks: New variety of Great Northern. Resistant to curly top and common mosaic virus. Annual. Cultivar. Seed.

PI 549846. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Idaho AES, Idaho, United States. Received 1966.

origin: United States. **cultivar:** PINTO UI-114. **remarks:** Variety typical in plant habit of all common pintos -- seed characteristics also same as common pinto. Resistant to bean mosaic virus 1 & 1A. Resistant also to curly-top viruses common to Southern Idaho, and possibly other areas. Annual. Cultivar. Seed.

PI 549847. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States. Received 1966.

origin: United States. **cultivar:** EARLY GALLATIN.
remarks: Maturity early, concentrated set, and good seed quality. Bush green pod type with white beans. Plants sturdy and erect with pods concentrated in the center. Pods long, fleshy, low in fiber, and with good color for canning and freezing. Resistant to BV1, NY15 and Pod mottle virus. Annual. Cultivar. Seed.

PI 549848 to 549851. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1966.

PI 549848 **origin:** United States. **cultivar:** ASTRO. **remarks:** Maturity 52 days. Widely adapted, high yielding white seeded. Developed primarily for shipping, acceptable for processing. Plants vigorous, large, erect, heavy concentrated pod set. Suitable for mechanical harvesting. Resistant to common and NY15 virus. Pods 6-1/2 x 3/8", round to thick-oval, medium dark green, very attractive, nearly straight and relatively smooth. Annual. Cultivar. Seed.

PI 549848 to 549851-continued

PI 549849 **origin:** United States. **cultivar:** ORBIT. **remarks:** Maturity 52 days. Early maturing of White Seeded Tendercrop class for canning and freezing. Plants medium large, upright, vigorous, very productive, for mechanical harvest. Resistant to common and NY15 virus. Pods 5" x .40", dark green, round, straight, superior quality for processing, firm, meaty, slow seed and fiber development. Seeds white, 1,500 per lb. Annual. Cultivar. Seed.

PI 549850 **origin:** United States. **cultivar:** POMPANO. **remarks:** Maturity 52 days. Heavy yielding, white seeded, particularly well adapted for sandy soil in southern Florida. Plants vigorous, large, somewhat spreading, heavy, concentrated pod set. Resistant to common and NY15 mosaic. Pods 6.5 x .40", medium green, thick oval to round, straight, curved tip, meaty, highly uniform and very attractive. Seeds black, 1,400 per lb. Annual. Cultivar. Seed.

PI 549851 **origin:** United States. **cultivar:** STRINGLESS LAKE S-7. **remarks:** Maturity early, 62 days. Developed primarily for processing in Blue Lake-growing areas. Sparse foliage and easy picking, with pods borne on spurs extending out from vines. Productive plants, good vigor and climbing. Heavy pod set for early picking. Pods 6" x .35", round, straight, medium green, smooth, meaty. Very slow in seed and fiber development, holding quality well. Seeds white, 1800 per lb. Annual. Cultivar. Seed.

PI 549852. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States.
Received 1966.

origin: United States. **cultivar:** TRUGREEN. **remarks:** Maturity 60 days. A mosaic resistant true white seeded variety producing maximum possible yields of fleshy dark green pods. Vine adapted to mechanical harvesting and slightly sprawled. Stringless, round pods of excellent quality. Suitable for dual purpose of canning and freezing. Annual. Cultivar. Seed.

PI 549853. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: US Vegetable Breeding Lab, 2875 Savannah Highway, Charleston, South Carolina, United States. Received 1972.

PI 549853-continued

origin: United States. **cultivar:** BONUS. **remarks:** Variety highly desirable for canning and freezing. Seeds white. Resistant to ordinary and NY 15 common bean mosaic virus and to pod mottle virus. Also some tolerance to powdery mildew, rust, and Rhizoctonia root-rot. Plants 16" tall, 18-20" spread, well adapted to mechanical harvesting. Grows well in spring/fall in South and summer in North. Used for home garden, fresh market, and. Annual. Cultivar. Seed.

PI 549854. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: W. Atlee Burpee Co., Pennsylvania, United States. Received 1967.

origin: United States. **cultivar:** BURPEES RICHGREEN. **remarks:** Maturity 56 days. Dark green Wade as grown by Burpee. Rich green color carried all the way through the round, smooth, 5-1/2 to 6" pods. Excellent, high-yielding, mosaic-resistant variety with real eye appeal. Ideal for fresh market, canning and freezing. Annual. Cultivar. Seed.

PI 549855. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Corneli, Missouri, United States. Received 1967.

origin: United States. **cultivar:** CASCADE. **remarks:** Bush type snap bean, dark green Seed medium white and solid. Used for processing. Resistant to common mosaic bean rust and NY 15 virus. Cross section -- row, round. Linearity -- row, straight. Strings -- row, none. Fiber -- row, low. Pod approx. 6". Annual. Cultivar. Seed.

PI 549856 to 549859. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Northrup, King & Co, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1968.

PI 549856 **origin:** United States. **cultivar:** BLUE DANUBE. Annual. Cultivar. Seed.

PI 549857 **origin:** United States. **cultivar:** BONVERT. Annual. Cultivar. Seed.

PI 549856 to 549859-continued

PI 549858 **origin:** United States. **cultivar:** GREEN ISLE. **remarks:** Maturity 55 days. Plants 19-21" tall, erect. Leaf dark green, coarser than Tendercrop. Pods set well off ground. Leaf medium to large. Yield very good. Pods 5 1/4 to 4 3/4", medium green, medium to thin wall. Spur not as long as Tendercrop. Seeds white. Pod about 1/2 seive size smaller than White Seeded Tendercrop with less I.C. Annual. Cultivar. Seed.

PI 549859 **origin:** United States. **cultivar:** SALEM. **remarks:** Plants 16" tall, semi-erect. Leaves medium to large, dark green. Stem medium. Plant spread 18-20". Maturity 50-52 days. Pods 5 1/2", round medium to slim, thin side wall. Small collar. Dark green interior. Firm flesh. Very little I.C. Seeds white. True Blue Lake type pod. Canned samples very similar to Pole. Annual. Cultivar. Seed.

PI 549860 to 549861. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: California Crop Imp Assoc., California, United States. Received 1968.

PI 549860 **origin:** United States. **cultivar:** CALIFORNIA DARK RED KIDNEY. **pedigree:** California Dark Red Kidney bean is the result of a cross between the Michigan Dark Red Kidney and Maui Red Kidney made in 1948. Maui variety is a large, late, high producing bush type from Hawaii. **remarks:** Bush type bean. Flowers pinkish. Seeds large, dark red. Seed does not fade but retains color after cooking. Annual. Cultivar. Seed.

PI 549861 **origin:** United States. **cultivar:** PINQUITOS. **remarks:** Small pink bean grown in the Santa Maria, California, area. Normally has been used only in the local area, but there is some interest in canning and marketing on a large scale. Pure seed of the variety was produced by a single plant selection and progeny testing. Annual. Cultivar. Seed.

PI 549862. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: FMC Corporation, California, United States. Received 1970.

origin: United States. **cultivar:** NIAGARA 773. **remarks:** Pod green, fleshy, 6-7", straight, approaching Blue Lake in quality. Plant erect, tall, set of pods well concentrated. Maturity 60 days. Adapted widely. Annual. Cultivar. Seed.

PI 549863 to 549864. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Washington USDA-ARS, Washington, United States.
Received 1968.

PI 549863 **origin:** United States. **cultivar:** BIGBEND. **remarks:** Maturing early, short vined, Red Mexican. Resistant to original and NY15 common bean mosaic and curly top virus. Also tolerant to Fusarium root rot. Attractive, uniform, dark red seeds similar to UI134. Seeds resistant to cracking and splitting during threshing and processing. 95- Maturity 95-105 days. Vines short, vigorous. Recommended for canning and dry packaging. Best performance in Washington. Annual. Cultivar. Seed.

PI 549864 **origin:** United States. **cultivar:** COULEE (RED MEXICAN). Annual. Cultivar. Seed.

PI 549865 to 549868. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States.
Received 1968.

PI 549865 **origin:** United States. **remarks:** Maturity 56 days. Pods high on plants, concentrated for mechanical harvesting. Requires plenty of water if grown under irrigation to assure straight, tender pods. Heavy yield. Pods 5-6 x 3/8", slender, oval to round, medium dark green. Seeds pure white. For processing. Annual. Seed.

PI 549866 **origin:** United States. **cultivar:** BLUE LAKE FM1K STRINGLESS. Annual. Cultivar. Seed.

PI 549867 **origin:** United States. **cultivar:** BLUE LAKE PRIME PAK STRINGLESS. **remarks:** Maturity 62 days. Pods 5-1/2 to 5 x 3/8", round, medium dark green. Seeds pure white. For canning, freezing and home garden use. Resistant to common bean mosaic. More concentrated season of picking. Annual. Cultivar. Seed.

PI 549868 **origin:** United States. **cultivar:** G V 50. **remarks:** Maturity 53 days. For canning or freezing. Bred for mechanical harvesting. Slow seed development. Widely grown in Northwest and Atlantic states. Pods 5-1/2 x 3/8" round to creaseback, medium dark green. Seeds oyster white. Resistant to pod mottle, BV1 and NY15 virus. Annual. Cultivar. Seed.

PI 549869 to 549871. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Michigan AES, Michigan, United States. Received 1975.

PI 549869 to 549871-continued

PI 549869 **origin:** United States. **cultivar:** MECOSTA. **remarks:** Tolerant to seed transmitted halo bacterial blight. Resistant to bean common mosaic virus. Susceptible to beta strain of anthracnose and seed-borne common and fuscous bacterial blights. Erect bush habit and maturity in 100-105 days. Seed quality and canning characteristics excellent. Light red kidney bean. Annual. Cultivar. Seed.

PI 549870 **origin:** United States. **cultivar:** MONTCALM. **pedigree:** Montcalm was derived from the cross Great Northern No. 1 x Red Kidney. Early selections tested for halo blight (*Pseudomonas phaseolicola*) tolerance in the fld & grnhse, later selections tested for tolerance in fld. **remarks:** Halo blight-tolerant dark red kidney bean. Released primarily because of field tolerance to halo blight, a major seed-transmitted disease in the humid Great Lakes. Upright bush habit. Maturity 90-95 days. Good seed quality and produces an excellent canned product. Susceptible to seed-borne common and fuscous bacteria blights. Resistant to bean common mosaic virus (type strain and its NY. Annual. Cultivar. Seed.

PI 549871 **origin:** United States. **cultivar:** SEAFARER. Annual. Cultivar. Seed.

PI 549872. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1968.

origin: United States. **cultivar:** TEMPO. **remarks:** Maturity 58 days. Pods 5 to 5-1/2", straight, slim, round, stringless and dark color. Darker than the Tendercrop class and more closely duplicates the pattern of Blue Lake. Picks very well mechanically and has maximum yield potential. Mosaic resistant and NY15 resistant. Garden, canning and freezing variety. Annual. Cultivar. Seed.

PI 549873 to 549875. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1968.

PI 549873 to 549875-continued

PI 549873 **origin:** United States. **cultivar:** BUSH BLUE LAKE 283. **remarks:** Variety of snap bush bean, white seeded. Developed for processing (canned or frozen) resembling original Bush Blue Lake in plant and pod type, but earlier in maturity and more productive. Plants medium size, somewhat spreading. Resistance good to common and NY15 strains of bean virus 1. Pods medium long, medium dark green, round, crease-backed in large sieve sizes, very slow seed and fiber development. Annual. Cultivar. Seed.

PI 549874 **origin:** United States. **cultivar:** POLARIS. **remarks:** Vine type snap bean. Good climber. Pods medium green, flat, straight, stringy. Seeds large, white. For home, local and shipping use. Maturity 65 days. Resistant to several rust strains. Annual. Cultivar. Seed.

PI 549875 **origin:** United States. **cultivar:** ROUNDUP. **remarks:** Bush type snap bean. Widely adapted, white-seeded variety of Tendercrop type, developed by Asgrow for canning or freezing, with a consistent record of performing well under a wide range of conditions. Good seedling vigor and good resistance to common and NY15 bean mosaic virus. Generally erect, straight, round pods, good for mechanical harvest. Recommended for canning and freezing. Annual. Cultivar. Seed.

PI 549876. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Pure Line Seeds, Idaho, United States. Received 1968.

origin: United States. **cultivar:** BLUE LAKE 77 BUSH. **remarks:** Maturity 57 days. Plant 16-18" tall, upright growth with dark green foliage. Pods 6" long, straight and slightly creaseback. Very fleshy, smooth, and dark green in color. Seed white, small. Adapted to garden, canning, and freezing. Well adapted to mechanical harvesting. Annual. Cultivar. Seed.

PI 549877. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States. Received 1968.

origin: United States. **cultivar:** BONANZA. Annual. Cultivar. Seed.

PI 549878. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Charter Seed Co, Idaho, United States. Received 1968.

origin: United States. **cultivar:** LAKETTE. **remarks:** Bush type snap bean. Pods medium green, round, straight, stringless with low fiber. Seed medium size, white. Recommended for processing use. Resistant to common and NY 15 bean mosaic. Annual. Cultivar. Seed.

PI 549879 to 549880. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Washington USDA-ARS, Washington, United States. Received 1969.

PI 549879 **origin:** United States. **cultivar:** APOLLO. **remarks:** Bush type snap bean. Resistant to curly top and common mosaic virus. Resistant to summer death, a widespread virus in Australia. Maturity 60 days. Plant height 22" and spreading approx. 24". Upright with pods borne high and concentrated. Pods straight, round, smooth, medium green, firm and meaty with slow seed and fiber development. Seeds white. Well suited for canning and freezing. Well adapted. Annual. Cultivar. Seed.

PI 549880 **origin:** United States. **cultivar:** ROYAL RED KIDNEY. **remarks:** Dark red kidney bean with near immunity to curly top virus, and resistant to original and NY15 common bean mosaic virus. Adaptable to production in Colorado and Michigan, and was tested in Washington and Idaho. Uniform seed size, shape and somewhat lighter color than most. Maturity 90 days. Satisfactory for canning and dry packaging. Annual. Cultivar. Seed.

PI 549881 to 549883. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1969.

PI 549881 **origin:** United States. **cultivar:** AVALANCHE. **remarks:** Bush type bean. Earlier maturity than Tendercrop. Upright plant habit. Pods set medium high on plant with excellent concentration. Maturity early. Pods 5 1/2 to 6" " smooth, straight, round oval. Has out-yielded Tendercrop. White seeded. Resistant to NY15 bean virus. Annual. Cultivar. Seed.

PI 549881 to 549883-continued

PI 549882 **origin:** United States. **cultivar:** GREEN LAKES 5A.
remarks: Maturity earlier than Tendercrop. Erect, open plant habit with excellent concentration of maturity. Pods 5-1/2 to 6", straight, round, with dark green color internally and externally. A distinctive mild sweet flavor. High yield potential. Has performed well in California, Oregon and Wisconsin trials. Resistant to NY15 bean virus. Recommended use: canning and freezing. Annual. Cultivar. Seed.

PI 549883 **origin:** United States. **cultivar:** ROMANO 14 BUSH.
remarks: Bush type bean. Maturity 65 days. Plant medium tall with a slightly sprawly plant habit. Pods 5 1/2 to 6" long x 9/16" in width. Pods straight, smooth, flat, light green, with Romano flavor, and excellent concentration. Adapted to machine harvest. Has performed well in California, Oregon and New York. Recommended use: freezing and canning. Annual. Cultivar. Seed.

PI 549884. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: New York AES, New York, United States. Received 1969.

origin: United States. **cultivar:** REDKOTE. **remarks:** New red kidney bean, resistant to halo blight and other major bean diseases, including two strains of mosaic virus and anthracnose fungi. Avg. 25 bushels per acre yield. Annual. Cultivar. Seed.

PI 549885. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Agway Inc., New York, United States. Received 1969.

origin: United States. **cultivar:** HORTICULTURAL MOHAWK.
remarks: Maturity 80 days. High yielding, runnerless bean of high quality. The non-vining feature of this variety makes for easier culture and harvest operations. Excellent table quality. Used in cooler climate areas as a substitute for lima beans in succotash. Annual. Cultivar. Seed.

PI 549886. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: FMC Corporation, California, United States. Received 1969.

PI 549886-continued

origin: United States. **cultivar:** PICKER. **remarks:** Harvester type bean for shipping or processing. Upright bush-type plants, about 17-20" high. Pods held high in frame for mechanical harvest. Pods 6" x 3/8", round, straight, and smooth. Resistant to common bean mosaic. Good for long-distance shipping. A genetic weakness was found in the variety and will be replaced shortly by another similar strain (written 1/20/70). Annual. Cultivar. Seed.

PI 549887. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Corneli, Missouri, United States. Received 1969.

origin: United States. **cultivar:** CATSKILL. **remarks:** Bush type snap bean. Pods medium green, round, straight, stringless, low fiber, 5-6" long. Seeds small, white. Used for processing. Resistant to common bean mosaic and NY15 viruses. Annual. Cultivar. Seed.

PI 549888. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Nebraska AES, Nebraska, United States. Received 1969.

origin: United States. **cultivar:** TARA. **remarks:** Great northern bean. Tolerant to common bacterial blight. Developed in Nebraska panhandle. Annual. Cultivar. Seed.

PI 549889 to 549890. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Agrigenetics, Inc., United States. Received 1970.

PI 549889 **origin:** United States. **cultivar:** APENNINE. **remarks:** Bush type bean. Plant size and pod set permits mechanical harvesting. Pods round, 5 1/2" long, uniformly dark green exterior and attractive bright green interior color. Distinct "beany" flavor. Plant and pod character permits very good processing quality. Resistant to common bean mosaic and NY15 virus. Annual. Cultivar. Seed.

PI 549890 **origin:** United States. **cultivar:** OLYMPIA. **remarks:** Plants 18-22" high. Pods 5-5 1/2" long, medium green. Plant type and pod set permits mechanical harvesting. High yielding variety, producing pods in 50-53 days. Used for canning and home garden. Resistant to common bean mosaic. Annual. Cultivar. Seed.

PI 549891. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Michigan AES, Michigan, United States. Received 1970.

origin: United States. **cultivar:** MICHIGAN IMPROVED CRANBERRY. Annual. Cultivar. Seed.

PI 549892 to 549893. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Northrup, King & Co, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1970.

PI 549892 **origin:** United States. **cultivar:** DEL REY. Annual. Cultivar. Seed.

PI 549893 **origin:** United States. **cultivar:** SALEM 4. Annual. Cultivar. Seed.

PI 549894 to 549895. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Western Regional Plant Introduction Sta., Pullman, Washington, United States. Received 1970.

PI 549894 **origin:** United States. **cultivar:** BURNIA. **pedigree:** California small white/sanilac. **remarks:** Bush type dry bean. Maturing early. Seeds small, white. Resistant to rust. Somewhat susceptible to heat or drought. Plant small, indeterminate, tending to sprawl on the ground. Profusely branched. Annual. Cultivar. Seed.

PI 549895 **origin:** United States. **cultivar:** KERMAN. **pedigree:** California small white/sanilac. **remarks:** Bush type. Vigorous, high yielding. Maturing late. Seeds small to medium. Resistant to rust. Semivining, profusely branched, quite prostrate. Maturity earlier than Burnia and Gallaroy. Some heat tolerance keeps it from dropping its pods as extensively as did Burnia and Gallaroy. Annual. Cultivar. Seed.

PI 549896 to 549897. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Agway Inc., New York, United States. Received 1971.

PI 549896 **origin:** United States. **cultivar:** MOHAWK HORTICULTURAL. **remarks:** Maturity 80 days. High yielding, runnerless bean of high quality. Runnerless, non-vining, easy harvesting. Used in cooler climate areas as a substitute for lima beans in succotash. Color and shape similar to French's Horticultural. Pods 7-8", splashed with reddish color. Annual. Cultivar. Seed.

PI 549896 to 549897-continued

PI 549897 **origin:** United States. **cultivar:** SINCLAIR. **remarks:** Maturity 50 days. Plants rugged, high yielding variety with healthy, vigorous, medium to dark green foliage. Pods 6 1/2 - 7" long, round, smooth, meaty, thick fleshed. Extremely uniform in pod development and outstanding in uniformity of color. Easy to pick as pods are borne in clusters near the main stem. Annual. Cultivar. Seed.

PI 549898 to 549899. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Agway Inc., New York, United States. Received 1976.

PI 549898 **origin:** United States. **cultivar:** GREENWAY. Annual. Cultivar. Seed.

PI 549899 **origin:** United States. **cultivar:** LONG TENDERGREEN. **remarks:** Maturity 52 days. Pods 6 1/2" to 7", round, smooth, and of high quality. Most popular main crop variety in many areas. Strain is resistant to mosaic. Annual. Cultivar. Seed.

PI 549900. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Curtis, J. F., Arvada, Colorado, United States. Received 1976.

origin: United States. **cultivar:** WOODRUFF. **remarks:** Pole beans, nicely formed and good flavor when pod is thick. Pod thin and bean buttery tasting when mature. Late maturing (late August, early September). Brought by Woodruff family from France (via England) to American Colonies in 1624. Perpetuated by the family since. Have grown consistently well in Massachusetts, Connecticut, Indiana and Colorado for 350 years. Annual. Cultivar. Seed.

PI 549901. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Lowdens Plts & Seed, Ontario, Canada. Received 1972.

origin: United States. **cultivar:** GOLDCOAST. **remarks:** Wax-podded snap bean. White seeded, moderately strong bush, pods average 5 to 5-1/4". Yield high. Tolerant to several seedling diseases. Seedlings emerge quickly, even in cold soil, and withstand Rhizoctonia solani, Pythium spp., and Macrophomina phaseoli. Also resistant to common bean mosaic and races of bean rust present at Charleston. Annual. Cultivar. Seed.

PI 549902. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Shelley, C. F., Montana, United States. Received 1973.

origin: United States. **cultivar:** ARIKARI. **remarks:** Excellent dry bean for cooking, but not meant to be used as green beans. Hardy and disease resistant. Plants short and bushy. Farmer (whose family started growing them in 1930's as "Gilkerson" beans) says they know of no one else growing them and it is too good a variety to lose. Annual. Cultivar. Seed.

PI 549903. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Washington AES, Washington, United States. Received 1973.

origin: United States. **cultivar:** GOLDCROP. **remarks:** Bush wax bean, resistant to curly top virus and bean mosaic. White seeded, wax podded, bush snap bean. Resistant to summer death, a serious virus disease in Australia. Plant habit is excellent and well suited to mechanical harvesting, with pods being borne high and outside on a strong upright bush. Pods round, straight, long and smooth, well filled with good snipping characteristics. Maturity 60-65 days. Annual. Cultivar. Seed.

PI 549904. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Michigan AES, Michigan, United States. Received 1974.

origin: United States. **cultivar:** SPARTAN PRIDE. Annual. Cultivar. Seed.

PI 549905. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Agway Inc., New York, United States. Received 1974.

origin: United States. **origin institute:** Agway Inc., New York. **cultivar:** SINCLAIR BUTTERWAX. **other id:** PVP 7100100. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549906 to 549909. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States. Received 1974.

PI 549906 to 549909-continued

- PI 549906 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** BLUE LAKE GV 2. **other id:** PVP 7300023. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.
- PI 549907 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** GALAMOR. **other id:** PVP 7300025. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 549908 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** GALASLIM. **other id:** PVP 7300022. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.
- PI 549909 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** VALGOLD. **other id:** PVP 7300021. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549910 to 549917. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1974.

- PI 549910 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BONANZA WAX. **other id:** PVP 7200026. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.
- PI 549911 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BUSH BLUE LAKE 47. **other id:** PVP 7400083. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 549912 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BUSH BLUE LAKE SUPREME. **other id:** PVP 7300026. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.
- PI 549913 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** CHECKMATE. **other id:** PVP 7400082. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 549914 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** EAGLE. **other id:** PVP 7100041. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549910 to 549917-continued

PI 549915 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** GINA. **other id:** PVP 7400021. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549916 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** PICO. **other id:** PVP 7200024. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549917 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** THOR. **other id:** PVP 7200025. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549918 to 549925. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Keystone Seed Company, United States. Received 1974.

PI 549918 **origin:** United States. **origin institute:** Keystone Seed Company. **cultivar:** LAKE ERIE. **other id:** PVP 7100031. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549919 **origin:** United States. **origin institute:** Keystone Seed Company. **cultivar:** LAKE GENEVA. **other id:** PVP 7200068. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549920 **origin:** United States. **origin institute:** Keystone Seed Company. **cultivar:** LAKE LARGO. **other id:** PVP 7400104. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549921 **origin:** United States. **origin institute:** Keystone Seed Company. **cultivar:** LAKE SHASTA. **other id:** PVP 7100030. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549922 **origin:** United States. **origin institute:** Keystone Seed Company. **cultivar:** LAKE SUPERIOR. **other id:** PVP 7100034. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549923 **origin:** United States. **origin institute:** Keystone Seed Company. **cultivar:** MIAMI. **other id:** PVP 7100036. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549918 to 549925-continued

PI 549924 **origin:** United States. **origin institute:** Keystone Seed Company. **cultivar:** RAIDER. **other id:** PVP 7400069. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549925 **origin:** United States. **origin institute:** Keystone Seed Company. **cultivar:** REBEL. **other id:** PVP 7100033. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549926 to 549932. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1974.

PI 549926 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** BLUE CROP. **other id:** PVP 7300027. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549927 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** BUSH ROMANO 71. **other id:** PVP 7100093. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549928 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** CUMBERLAND. **other id:** PVP 7300029. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549929 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** GATOR GREEN 15. **other id:** PVP 7100091. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549930 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** OZARK. **other id:** PVP 7300028. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549931 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** PETITE. **other id:** PVP 7400059. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549932 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** RAINIER. **other id:** PVP 7100097. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549933. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Charter Seed Company, United States. Received 1974.

origin: United States. **origin institute:** Charter Seed Company. **cultivar:** WHITE SEEDED PROVIDER. **other id:** PVP 7400047. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549934. Phaseolus vulgaris L. FABACEAE Bean

Donated by: W. Atlee Burpee Co., Pennsylvania, United States. Received 1974.

origin: United States. **origin institute:** W. Atlee Burpee Co., Pennsylvania. **cultivar:** SUNRISE. **other id:** PVP 7100029. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 549935. Phaseolus vulgaris L. FABACEAE Bean

Donated by: FMC Corporation, California, United States. Received 1974.

origin: United States. **origin institute:** FMC Corporation, California. **cultivar:** GEM. **other id:** PVP 7200145. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549936. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1974.

origin: United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** ROMA. **other id:** PVP 7200020. **source:** Certificate in force. **group:** PVPO. **remarks:** Maturity 59 days. Pods 4 1/2 x 3/4-7/8" wide, thin, smooth. Pods hold their quality. Very closely resembles the Pole Romano in color, appearance, flavor and width. Snips well, picks well, yields well. Seeds white. Annual. Cultivar. Seed.

PI 549937 to 549940. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Washington USDA-ARS, Washington, United States. Received 1974.

PI 549937 to 549940-continued

- PI 549937 **origin:** United States. **cultivar:** GLORIA. **pedigree:** (Pink bean cross) Sutter Pink/Red Mexican. **other id:** CV-27. **source:** Crop Sci. 22(3):684 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Resistant to common mosaic and increased resistance to root rot. More upright than Sutter with longer pods set higher on the plant, reducing pod contact with soil. Seeds lighter in color and slightly larger than Sutter. Annual. Cultivar. Seed.
- PI 549938 **origin:** United States. **cultivar:** ROZA. **pedigree:** Roza's parentage is {(Red Mexican UI-35 x Fusarium-resistant P.I. 203958) x a virus-resistant red-seeded bush breeding line} x Sutter Pink. **other id:** CV-26. **source:** Crop Sci. 22(3):684 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Among the only pink bean cultivars (with Viva and Gloria) with resistance to prevalent Type and NY15 strains common mosaic virus and the 1st early-maturing, short-vined beans bred and recognized as resistant to fusarium root rot caused by *Fusarium solani*. Resistant to *Pythium ultimum* (Trow) and to injury by seedcorn maggot. In highly fertile soil, may become quite rank in growth, making it subject to severe. Annual. Cultivar. Seed.
- PI 549939 **origin:** United States. **cultivar:** RUFUS. **pedigree:** Rufus is an F10 selection from the parentage {Fusarium-resistant P.I. 203958 x Red Mexican UI-35} x P.I. 203958}. Disease testing and pedigreed selections conducted in both field and greenhouse. **other id:** CV-30. **source:** Crop Sci. 22(3):685 1982. **group:** CSR-OTHER LEGUMES. **remarks:** First common bean cultivar released with genes for resistance to fusarium root rot from the then recognized principal world source of resistance, PI 203958. More upright, less viny, and seeds stain less noticeably with wet pods than other late-maturing Red Mexican beans. Sets white blossoms profusely, high on plant. Pods fill uniformly and carry 4-6 seeds. Seeds excellent in quality,. Annual. Cultivar. Seed.
- PI 549940 **origin:** United States. **cultivar:** VIVA. **pedigree:** Viva's parentage is {(Red Mexican UI-35 x P.I. 203958) x Red <exocam IO-35} x Sutter Pink. **other id:** CV-25. **source:** Crop Sci. 22(3):684 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Among the only pink bean cultivars (with Roza and Gloria) with resistance to prevalent Type and NY15 strains common mosaic virus and the 1st early-maturing, short-vined beans bred and recognized as resistant to fusarium root rot caused by *Fusarium solani*. Resistant to *Pythium ultimum* (Trow) and to injury by seedcorn maggot. Matures early (85-95 days) and has high yield index. Found to experimentally be one. Annual. Cultivar. Seed.

PI 549941 to 549944. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1975.

PI 549941 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BUSH BLUE LAKE 53. **other id:** PVP 7500071. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549942 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** PAX. **other id:** PVP 7500072. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549943 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** RODEO. **other id:** PVP 7100025. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549944 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** SPURT. **other id:** PVP 7500070. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549945 to 549946. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1975.

PI 549945 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** AMIGO. **other id:** PVP 7400060. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549946 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** TENDERBLUE. **other id:** PVP 7400061. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549947. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Musser, James L., United States; and Davenport, C.A., United States. Received 1975.

origin: United States. **cultivar:** SLENDERETTE. **other id:** PVP 7100066. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549948. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Farnsworth, V., Maine, United States. Received 1978.

origin: United States. **cultivar:** KING TUT. **remarks:** Seeds found in King Tut's tomb when opened in 1922. Pods purple. Flowers red and lavender. Insect free and heat and cold resistant. Obtain 15' height if allowed supports to climb on. Seeds turn brown and develop a nutty flavor in cooking. Seeds are very large and have an excellent flavor, superior to our own natural shell beans. Annual. Cultivar. Seed.

PI 549949. Phaseolus vulgaris L. FABACEAE Bean

Donated by: W. Atlee Burpee Co., Pennsylvania, United States. Received 1975.

origin: United States. **origin institute:** W. Atlee Burpee Co., Pennsylvania. **cultivar:** GREENSLEEVES. **other id:** PVP 7400040. **source:** Certificate in force. **group:** PVPO. **remarks:** Maturity 56 days. White seeded with extra dark green color. Heavy crops of smooth, straight pods, very meaty and tender. Perfect for freezing, canning & fresh market. When canned, liquid does not discolor and outer skin remains intact. Annual. Cultivar. Seed.

PI 549950. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1975.

origin: United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** GREENPAK. **other id:** PVP 7500054. **source:** Certificate in force. **group:** PVPO. **remarks:** Maturity 59 days. Pods 4 1/2" x 3/4-7/8", thin, smooth. Pods hold their quality. Closely resembles Pole Romano in color, appearance, flavor & width. Snips well, yields well. Seeds white. Annual. Cultivar. Seed.

PI 549951. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Keystone Seed Company, United States. Received 1975.

origin: United States. **origin institute:** Keystone Seed Company. **cultivar:** LAKE SENECA. **other id:** PVP 7500096. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549952 to 549956. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States.
Received 1976.

PI 549952 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** CENTURY GOLD. **other id:** PVP 7500049. **source:** Certificate in force. **group:** PVPO. **remarks:** Maturity 62 days. New white seeded wax bean with pods 5 1/2-6", straight, round, very golden yellow color at maturity. Fleshy pods with exceptionally long holding quality and slow seed development. Annual. Cultivar. Seed.

PI 549953 **origin:** United States. **cultivar:** CLASSIC. **remarks:** Maturity 59 days. Little smaller in sieve seize than Tendercrop. A couple of days earlier, a more compact bush and about the same pod color. Pods are 5-1/2 to 6" long, straight, smooth, round and very well set. Seeds white. Used for canning and freezing. Annual. Cultivar. Seed.

PI 549954 **origin:** United States. **cultivar:** COLOMA. **remarks:** Maturity 59 days. Green-podded snap bean with Bush Blue Lake breeding. Heavy set of medium size pods. Pod color comparable to Tendercrop. Especially well adapted to the snap bean producing areas of central Wisconsin. Resistant to Common Bean Mosaic (BV1). Seeds white. Used for canning and freezing. Annual. Cultivar. Seed.

PI 549955 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** SPLENDORGOLD. **other id:** PVP 7500050. **source:** Certificate in force. **group:** PVPO. **remarks:** Maturity 56 days. New wax bean with heavy set of straight pods 5 to 5 1/2" long and slow seed development. Kinghorn Wax maturity with slightly smaller sieve sizes and much brighter golden color. Seed cream color. Annual. Cultivar. Seed.

PI 549956 **origin:** United States. **cultivar:** WONDERGREEN. **remarks:** Maturity 60 days. USDA germplasm was used in hybridization of this bean. Pods 5" long, straight, round, sringleless and dark green. Curly top resistant and BV1 resistant. High yield and adapted to mechanical harvest. Tendercrop type bush. Seed cream color. Used for garden, canning and freezing. Annual. Cultivar. Seed.

PI 549957 to 549958. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1976.

PI 549957 to 549958-continued

PI 549957 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** CAPE. **other id:** PVP 7600067. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549958 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** STRETCH. **other id:** PVP 7500073. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549959 to 549961. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1976.

PI 549959 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** ARISTOCROP. **other id:** PVP 7600019. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549960 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** TIDAL WAVE. **other id:** PVP 7600018. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549961 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** TORRENT. **other id:** PVP 7600020. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549962. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Sacramento Valley Milling Co., California, United States. Received 1976.

origin: United States. **origin institute:** Sacramento Valley Milling Co., California. **cultivar:** SACRAMENTO. **other id:** PVP 7600037. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549963. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Idaho Seed Bean Co., Inc., Idaho, United States. Received 1976.

origin: United States. **origin institute:** Idaho Seed Bean Co., Inc., Idaho. **cultivar:** GRAND CANYON. **other id:** PVP 7600012. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549964. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Musser, James L., United States; and Davenport, C.A., United States. Received 1977.

origin: United States. **cultivar:** GOLDETTE. **other id:** PVP 7100067. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549965. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1977.

origin: United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** MAJESTIC. **other id:** PVP 7700044. **source:** Certificate in force. **group:** PVPO. **remarks:** Maturity 58 days. Offers heavy set of long, straight, fleshy pods of golden wax color set with slow seed development. Upright bush habit. Picks well mechanically. Resistant to Common Bean Mosaic Virus (BVL). Some tolerance to NY15. Seed white. Annual. Cultivar. Seed.

PI 549966. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Keystone Seed Company, United States. Received 1977.

origin: United States. **origin institute:** Keystone Seed Company. **cultivar:** CONQUEST. **other id:** PVP 7700058. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549967 to 549970. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1977.

PI 549967 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BUSH BLUE LAKE ADVANCE. **other id:** PVP 7700088. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549968 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** GABRIELLA. **other id:** PVP 7700066. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549969 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** GAELIC. **other id:** PVP 7700067. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549967 to 549970-continued

PI 549970 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** STRIKE. **other id:** PVP 7700094. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549971. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Royal Sluis, Netherlands. Received 1977.

origin: Netherlands. **origin institute:** Royal Sluis. **cultivar:** SKIL. **other id:** PVP 7700061. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549972. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1977.

origin: United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** EARLY BLUE. **other id:** PVP 7700083. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549973. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Northrup King Company, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1978.

origin: United States. **origin institute:** Northrup King Company, Minneapolis, Minnesota. **cultivar:** GREEN GENES. **other id:** PVP 7600060. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549974 to 549977. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1978.

PI 549974 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BUSH BLUE LAKE 92. **other id:** PVP 7700098. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549975 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BUSH BLUE LAKE 94. **other id:** PVP 7700099. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549974 to 549977-continued

PI 549976 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BUSH BLUE LAKE RIO. **other id:** PVP 7700068. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549977 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** GOLDRUSH. **other id:** PVP 7700097. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549978 to 549980. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Sunseeds, Inc., California, United States. Received 1978.

PI 549978 **origin:** United States. **origin institute:** Sunseeds, Inc., California. **cultivar:** LAKELAND. **other id:** PVP 7600059. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549979 **origin:** United States. **origin institute:** Sunseeds, Inc., California. **cultivar:** PAYMASTER. **other id:** PVP 7600058. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549980 **origin:** United States. **origin institute:** Sunseeds, Inc., California. **cultivar:** TRIUMPH. **other id:** PVP 7600061. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549981 to 549984. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1978.

PI 549981 **origin:** United States. **cultivar:** OSU 1604. Annual. Cultivar. Seed.

PI 549982 **origin:** United States. **cultivar:** RESISTO. Annual. Cultivar. Seed.

PI 549983 **origin:** United States. **cultivar:** SUNGOLD. Annual. Cultivar. Seed.

PI 549981 to 549984-continued

PI 549984 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** VITAGREEN. **other id:** PVP 7700103. **source:** Certificate in force. **group:** PVPO. **remarks:** Maturity 60 days. Long fleshy podded derived from Blue Lake breeding. Pods 5 1/2-6" with very slow seed development. Excellent processed quality and color. Rated outstanding in canned and frozen product evaluations. Resistant to Common Bean Mosaic Virus (BV1) and NY 15. Seeds white. Annual. Cultivar. Seed.

PI 549985 to 549987. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Wanigan Associates Inc., Massachusetts, United States. Received 1978.

PI 549985 **origin:** United States. **cultivar:** FAMILY. **remarks:** Bush plant with good growth in all types of soil. Leaves drop early as pods dry. Best as shell and baking bean. Annual. Cultivar. Seed.

PI 549986 **origin:** United States. **cultivar:** JACOBS CATTLE GASLESS STRAIN. **remarks:** Bush plant identical to commercially grown Jacobs Cattle in Maine. Matures dry pods in 88 days. High quality for baked bean. Relative gaslessness. Annual. Cultivar. Seed.

PI 549987 **origin:** United States. **cultivar:** SANTA MARIA PINQUITOS. **remarks:** Bush plant, vining to 4 feet. 12' row at 2" spacing and tied up produced 5 plus pounds dry seed. Local favorite for dry use in Santa Maria County, CA. Holds shape and firmness in baking. Annual. Cultivar. Seed.

PI 549988 to 549989. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1978.

PI 549988 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** GOLDEN ROD. **other id:** PVP 7700080. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549988 to 549989-continued

PI 549989 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** PLATEAU PROVIDER. **other id:** PVP 7700079. **source:** Certificate in force. **group:** PVPO. **remarks:** Snapbean, best in southeast summers. Maturity 54 days. Bush erect, determinate, scattered pods. Pods round, slightly curved, light dull green, considerable fiber, 8 seeds per pod. Seeds kidney-shaped narrow type. Resistant to common bean mosaic and NY15 bean mosaic. Annual. Cultivar. Seed.

PI 549990. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1979.

origin: United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** LANCER. **other id:** PVP 7800058. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549991. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: van Waveren Pflanzenzucht G.M.B.H., Germany. Received 1979.

origin: Germany. **origin institute:** van Waveren Pflanzenzucht G.M.B.H.. **cultivar:** EARLYBIRD. **other id:** PVP 7800078. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549992. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Honma, S., Michigan State University, Department of Horticulture, Michigan State University, East Lansing, Michigan, United States. Received 1979.

origin: United States. **cultivar:** GOLDEN RULER. **remarks:** Yellow wax, flat Romano type bean that possesses distinct "beany" flavor, concentrated production, satisfactory yields, and resistance to common bean mosaic virus. Some tolerance to bean beetle and certain strains of bean rust. Seeds white, oval, medium sized (880 per pound). Seed coat adheres tightly to the cotyledon and seeds have good germination. Plants upright, well suited for mechanical. Annual. Cultivar. Seed.

PI 549993 to 549996. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Withee, J. E., Wanigan Associates Inc., 262 Salem St., Lynnfield, Massachusetts, United States. Received 1979.

PI 549993 **origin:** United States. **cultivar:** CANARY. **remarks:** Early bush variety. Annual. Cultivar. Seed.

PI 549994 **origin:** United States. **cultivar:** MARAFAX. Annual. Cultivar. Seed.

PI 549995 **origin:** United States. **cultivar:** THOUSAND-TO-ONE. Annual. Cultivar. Seed.

PI 549996 **origin:** United States. **cultivar:** TRUE RED CRANBERRY. Annual. Cultivar. Seed.

PI 549997. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1980.

origin: United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** ROMA II. **other id:** PVP 8000058. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549998. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Royal Sluis, Netherlands. Received 1980.

origin: Netherlands. **origin institute:** Royal Sluis. **cultivar:** SMILO. **other id:** PVP 7800103. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 549999 to 550000. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States. Received 1980.

PI 549999 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** BBL 109. **other id:** PVP 8000049. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550000 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** GALAGOLD. **other id:** PVP 8000048. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550001. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Quinones, F. A., Agronomy Department, Box 30, NMSU, Las Cruces, New Mexico, United States. Received 1980.

origin: United States. **cultivar:** NAVAJO. **other id:** CV-21. **source:** Crop Sci. 20(6):822 1980. **group:** CSR-OTHER LEGUMES. **remarks:** Yields 13% more beans than U.I.114. Semi-erect in growth habit, moderately early in maturity, and is as high or higher in protein content than three other commercial varieties with which it was compared. Annual. Cultivar. Seed.

PI 550002. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Munger, H. M., Dept. of Plant Breeding, Cornell University, Ithaca, New York, United States. Received 1980.

origin: United States. **cultivar:** PERRY MARROW. **remarks:** Dry bean variety with short vine under field conditions, growing like a pole bean in the greenhouse. Widely used in NY state. Noted for its large, quick-cooking seeds. Bred for resistance to alpha and beta races of anthracnose, it is one of the earliest examples of a disease resistant variety. Preserved as a differential host for identifying races of Colletotrichum lindemuthianum. Annual. Cultivar. Seed.

PI 550003. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Keystone Seed Company, United States. Received 1980.

origin: United States. **origin institute:** Keystone Seed Company. **cultivar:** KEYGOLD. **other id:** PVP 8000111. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550004. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1980.

origin: United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** PIRATE. **other id:** PVP 8000122. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550005. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States.
Received 1980.

origin: United States. **origin institute:** Ferry-Morse
Seed Company, California. **cultivar:** GOLDEN SANDS. **other**
id: PVP 8000108. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 550006. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rauzi, Fr., 1329 N. Main Street, Sheridan, Wyoming,
United States. Received 1980.

origin: Italy. **cultivar:** POLE BEAN (ECCLI FAMILY).
Annual. Cultivar. Seed.

PI 550007. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Moore, K., 615 Lessor Drive, Ft. Collins, Colorado,
United States. Received 1980.

origin: United States. **cultivar:** KENTUCKY POLE/YELLOW
CORN. **remarks:** Plants 17 feet tall. Pods 9' long, light
colored. Good flavor and texture. Annual. Cultivar.
Seed.

PI 550008. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Royal Sluis, Netherlands. Received 1981.

origin: Netherlands. **origin institute:** Royal Sluis.
cultivar: GOURMET. **other id:** PVP 8000110. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 550009. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Becker, R., Cornell University, 201 Hedrick Hall, New
York AES, Geneva, New York, United States. Received 1981.

origin: United States. **cultivar:** VERNA. Annual.
Cultivar. Seed.

PI 550010. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Schneiter, A., Agronomy Department, North Dakota
University, Fargo, North Dakota, United States. Received 1981.

PI 550010-continued

origin: United States. **cultivar:** PINDAK. **pedigree:** Parentage of Pindak is early maturing, plump, red-seeded Jap. bush bean (name lost) x {(Pinto UI-114 x Fusarium resist. P.I. 203958) x Pinto UI-114}. Pedigree & disease & initial perfor. selec. made at Prosser, WA. **other id:** CV-23. **source:** Crop Sci. 22(1):157 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Pinto bean resistant to the prevalent type and NY15 strains of bean common mosaic virus. Flowers white. Immune to curly top virus and has effective level of resistance to Fusarium root rot caused by *F. solani*. Appeared resistant to some prevalent bean rust (*U. phaseoli* var. *typica*) races found in ND. Rated equal to or better than other pinto selections in nutritional analyses, and in cooked flavor. Annual. Cultivar. Seed.

PI 550011. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1981.

origin: United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** WIN. **other id:** PVP 8000120. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550012 to 550020. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Bukke, D. W., USDA-ARS, Irrig Agric Res & Ext Center, Box 30, Prosser, Washington, United States. Received 1982.

PI 550012 **origin:** United States. **cultivar:** NW-395. **other id:** CV-33. **source:** Crop Sci. 22(4):898 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Curly top and mosaic resistant navy (pea) bean. Earliest maturing cultivar of its class in most locations. Tolerant to root rot. Best adapted for Western production under irrigation. Annual. Cultivar. Seed.

PI 550012 to 550020-continued

- PI 550013 **origin:** United States. **cultivar:** NW-410. **pedigree:** Pinto NW-410 is an F6 selection from the cross Sutter Pink x Pinto UI-114. **other id:** CV-28. **source:** Crop Sci. 22(3):684 1982. **group:** CSR-OTHER LEGUMES. **remarks:** More resistant than any other pinto bean to Fusarium root rot caused by Fusarium solani. Resistance equals or exceeds that of any other commercial bean cultivar, even though traditional sources of resistance to this disease were not included in its parentage. In yield tests, equalled or exceeded the yields of the best 12 to 18 cultivars tested at each of 14 to 18 locations in U.S. Grown successfully in. Annual. Cultivar. Seed.
- PI 550014 **origin:** United States. **cultivar:** NW-59. **pedigree:** Red Mexican NW-59 has same parentage NW-63 -- {(P.I. 203958 x Red Mexican UI-35) x a curly top-resistant early short bush Dark Red Kidney type breeding line, DRK 801} x Sutter Pink. **other id:** CV-31. **source:** Crop Sci. 22(3):685 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Red Mexican type. Maturity 90-95 days. Released as 1st early maturing Red Mexican bean with effective level of field resistance to fusarium root rot. With NW-63, among highest yielding bean in class in U.S. With Rufus and NW-63, 1st Red Mexican bean developed with effective levels resistant to fusarium root rot from F. solani. Yield 15-50% more seed than other Red Mexican cultivars under stress. Annual. Cultivar. Seed.
- PI 550015 **origin:** United States. **cultivar:** NW-590. **pedigree:** NW-590 is an F3 selection from the parentage {Red Mexican UI-35 x (P.I. 203958 x Red Mexican UI-35)} x Pinto UI-114. **other id:** CV-29. **source:** Crop Sci. 22(3):684 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Tested inter-regionally and has been grown well in commercial fields in Washington, Idaho, Nebraska, Minnesota, and Michigan. Immune to Type strain common mosaic virus. Pods long. In yield tests it equalled or exceeded yields of best of 12 to 18 cultivars at each of 14 to 18 locations in 12 states. Seeds uniform in size and color, high contrast between dark and light portions of seeds. Annual. Cultivar. Seed.

PI 550012 to 550020-continued

- PI 550016 **origin:** United States. **cultivar:** NW-63. **pedigree:** Red Mexican NW-63 has same parentage NW-59 -- {(P.I. 203958 x Red Mexican UI-35) x a curly top-resistant early short bush Dark Red Kidney type breeding line, DRK 801} x Sutter Pink. **other id:** CV-32. **source:** Crop Sci. 22(3):685 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Matures earlier than 90-95 days (NW-59). Released as 1st early maturing Red Mexican bean with effective level field resistant to fusarium root rot. With NW-59, is among highest yielding bean in class in U.S. With Rufus and NW-59, is 1st Red Mexican bean developed with effective levels resistant to fusarium root rot from *F. solani*. Yield is 15-50% more seed than other Red Mexican cultivars under stress fusarium. Annual. Cultivar. Seed.
- PI 550017 **origin:** United States. **cultivar:** PINK GLORIA. **remarks:** Upright growth habit. Maturity 95 days. Resistant to fusarium root rot, curly top virus, and bean common mosaic virus. Equivalent to Sutter Pink in canning quality, flavor and texture. Annual. Cultivar. Seed.
- PI 550018 **origin:** United States. **cultivar:** PINK ROZA. **remarks:** Tall, vigorous indeterminate semi-bush habit. Pods develop in middle of the plant. Effective level of resistance to fusarium and pythium root rot, curly top virus and prevalent strains of bean common mosaic virus. Seeds lighter colored than those of other pink beans, larger than Viva, and less plump than Gloria. Annual. Cultivar. Seed.
- PI 550019 **origin:** United States. **cultivar:** PINK VIVA. **remarks:** Vine small, upstanding, indeterminate, sets pods heavily in the middle to lower part of plant. Maturity 90 days. Resistant to fusarium and pythium root rots, curly top virus, and common mosaic virus. Measurable field resistance to the seedworm maggot. Exceptionally high yield. Annual. Cultivar. Seed.
- PI 550020 **origin:** United States. **cultivar:** RED MEXICAN RUFUS. **pedigree:** Red Mexican Rufus is an F10 selection from the parentage {(Fusarium-resistant P.I. 203958 x Red Mexican UI-35) x P.I. 203958}. P.I. 203958 is recognized as a principal world source for fusarium root rot. **remarks:** Maturity 90-95 days. Released as 1st early maturing Red Mexican bean with effective level field resistance to fusarium root rot. With NW-63 and NW-59, is 1st Red Mexican bean developed with effective levels resistant to fusarium root rot from *F. solani*. Yield is 15 - 50% more seed than other Red Mexican cultivars under stress of fusarium root rot. Resistant to prevalent Type and NY 15 strains. Annual. Cultivar. Seed.

PI 550021 to 550022. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wilbur-Ellis Company, United States. Received 1982.

PI 550021 **origin:** United States. **origin institute:** Wilbur-Ellis Company. **cultivar:** EBONY. **other id:** PVP 8100036. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550022 **origin:** United States. **origin institute:** Wilbur-Ellis Company. **cultivar:** EPOCH. **other id:** PVP 8100017. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550023 to 550024. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1982.

PI 550023 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** FLO. **other id:** PVP 8000123. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550024 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** PEAK. **other id:** PVP 8000121. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550025 to 550026. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Moran Seeds, Inc., United States. Received 1982.

PI 550025 **origin:** United States. **origin institute:** Moran Seeds, Inc.. **cultivar:** BLUE DUET. **other id:** PVP 7900038. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550026 **origin:** United States. **origin institute:** Moran Seeds, Inc.. **cultivar:** SCORE. **other id:** PVP 7900039. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550027 to 550029. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wood, D. R., Colorado State University, Department of Agronomy, Ft. Collins, Colorado, United States. Received 1982.

PI 550027 to 550029-continued

PI 550027 **origin:** United States. **origin institute:** Colorado State University, Ft. Collins, Colorado. **cultivar:** OLATHE. **other id:** PVP 8000077. **source:** Certificate in force. **group:** PVPO. **other id:** CV-36. **source:** Crop Sci. 22(6):1259 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Resistant to many races of bean rust and to bean common mosaic and curly top viruses. Semi-vine plant. Maturity 88 days. Thick stems, dark green leaves. Seeds smaller and slightly darker and rounder than UI111 and UI114. Developed in Fort Collins, Colorado. Annual. Cultivar. Seed.

PI 550028 **origin:** United States. **cultivar:** OURAY. **other id:** CV-37. **source:** Crop Sci. 22(6):1260 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Pinto bean, bush growth habit. Large sturdy stem, prolific branching, heavy set of flowers and fruits. Seeds medium to large with typical pinto pattern. Matures in 84 days in Fort Collins, Colorado. Resistant to type and NY15 bean common mosaic virus and some races of rust, but susceptible to curly top virus and very sensitive to bean common blight. Annual. Cultivar. Seed.

PI 550029 **origin:** United States. **cultivar:** WYOMING 166 (10 157). Annual. Cultivar. Seed.

PI 550030. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Sotomayor-rios, A., Mayaguez Inst. of Trop. Ag., Box 70, Mayaguez, Puerto Rico. Received 1982.

origin: Puerto Rico. **cultivar:** XR-235-1-1. **pedigree:** XR-235-1-1 is the result of intensive selection thru 5 gener. following interspecific cross, *P. vulgaris* x *P. cocineus* L. Female par., 6-19, was a bulked F4 ln from Florida selec. for reclining foliage & short internodes. **other id:** GP-42. **source:** Crop Sci. 22(6):1268 1982. **group:** CSR-OTHER LEGUMES. **remarks:** Short, erect, very bushy, semivine and shows strong perennial growth tend. Basal stem strong and upright, supported by strong root system showing high resistance to root rots, especially ashy stem blight. Leaves small, dark green, and highly pubescent with many hooked hairs. Foliage highly resistant to all *Xanthomonas* strains tested, high levels of field resistance to various viruses and. Annual. Breeding Material. Seed.

PI 550031. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Sunseeds, Inc., California, United States. Received 1982.

origin: United States. **origin institute:** Sunseeds, Inc., California. **cultivar:** EMPRESS. **other id:** PVP 7900045. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550032. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Cornell University, New York AES, Geneva, New York, United States. Received 1982.

origin: United States. **origin institute:** Cornell University, Geneva, New York. **cultivar:** MIDNIGHT. **other id:** PVP 8100104. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550033 to 550034. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1982.

PI 550033 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** BURLY. **other id:** PVP 8100032. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550034 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** GOLDIE. **other id:** PVP 8100034. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550035 to 550042. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1983.

PI 550035 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** AGATE. **other id:** PVP 8300061. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550036 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** AMBER. **other id:** PVP 8300040. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550035 to 550042-continued

- PI 550037 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** DANDY. **other id:** PVP 8100033. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550038 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** GARNET. **other id:** PVP 8300100. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550039 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** IVORY. **other id:** PVP 8300118. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550040 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** OPAL. **other id:** PVP 8300041. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550041 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** SPINEL. **other id:** PVP 8300117. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550042 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** ZIRCON. **other id:** PVP 8200066. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550043 to 550045. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States.
Received 1983.

- PI 550043 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** BENTON. **other id:** PVP 8300048. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550044 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** JUMBO. **other id:** PVP 8100177. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550045 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** SLIMGYM. **other id:** PVP 8300047. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550046. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Pop Vriend B.V., Netherlands. Received 1983.

origin: Netherlands. **origin institute:** Pop Vriend B.V..
cultivar: ALMARE. **other id:** PVP 8100043. **source:**
Application abandoned/withdrawn. **group:** PVPO. Annual.
Cultivar. Seed.

PI 550047 to 550053. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States.
Received 1983.

PI 550047 **origin:** United States. **origin institute:** Ferry-Morse
Seed Company, California. **cultivar:** BEELINE. **other id:**
PVP 8300096. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 550048 **origin:** United States. **origin institute:** Ferry-Morse
Seed Company, California. **cultivar:** CAESAR. **other id:**
PVP 8300098. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 550049 **origin:** United States. **origin institute:** Ferry-Morse
Seed Company, California. **cultivar:** CROSSVILLE. **other**
id: PVP 8100049. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 550050 **origin:** United States. **origin institute:** Ferry-Morse
Seed Company, California. **cultivar:** MILANO. **other id:**
PVP 8300121. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 550051 **origin:** United States. **origin institute:** Ferry-Morse
Seed Company, California. **cultivar:** PRODUCER. **other id:**
PVP 8100042. **source:** Certificate in force. **group:** PVPO.
remarks: Maturity 50 days. Pods medium green, round,
smooth, sparse fiber, 6 seeds per pod, stringless,
standard Tendercrop flavor. Seeds white, round cross,
elliptical. Resistant to bean common mosaic virus (BV1A)
and mosaic mottle. Annual. Cultivar. Seed.

PI 550052 **origin:** United States. **origin institute:** Ferry-Morse
Seed Company, California. **cultivar:** SUNDIAL. **other id:**
PVP 8300095. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 550053 **origin:** United States. **origin institute:** Ferry-Morse
Seed Company, California. **cultivar:** TENDERLAKE. **other**
id: PVP 8100041. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 550054. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Royal Sluis, Netherlands. Received 1982.

origin: Netherlands. origin institute: Royal Sluis.
cultivar: FLAMATA. other id: PVP 8100086. source:
Certificate in force. group: PVPO. Annual. Cultivar.
Seed.

PI 550055. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Nebraska Agr. Exp. Sta., Nebraska, United States.
Received 1982.

origin: United States. origin institute: Nebraska Agr.
Exp. Sta., Nebraska. cultivar: HARRIS. other id: PVP
8100056. source: Certificate in force. group: PVPO.
Annual. Cultivar. Seed.

PI 550056 to 550114. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Berrier, B. F., 1407 Grand, Canon City, Colorado, United
States. Received 1983.

PI 550056 origin: France. Annual. Seed.

PI 550057 origin: United States. Annual. Seed.

PI 550058 origin: Mexico. Annual. Seed.

PI 550059 origin: United States. Annual. Seed.

PI 550060 origin: United States. Annual. Seed.

PI 550061 origin: United States. Annual. Seed.

PI 550062 origin: United States. Annual. Seed.

PI 550063 origin: United States. Annual. Seed.

PI 550064 origin: United States. Annual. Seed.

PI 550065 origin: United States. Annual. Seed.

PI 550066 origin: United States. Annual. Seed.

PI 550067 origin: United States. Annual. Seed.

PI 550068 origin: United States. Annual. Seed.

PI 550069 origin: Canada. Annual. Seed.

PI 550056 to 550114-continued

PI 550070 **origin:** United States. **Annual.** **Seed.**

PI 550071 **origin:** United States. **Annual.** **Seed.**

PI 550072 **origin:** United States. **cultivar:** 152 + 0. **Annual.**
Cultivar. **Seed.**

PI 550073 **origin:** United States. **cultivar:** 179 + 60. **Annual.**
Cultivar. **Seed.**

PI 550074 **origin:** United States. **cultivar:** 181 + 133. **Annual.**
Cultivar. **Seed.**

PI 550075 **origin:** United States. **cultivar:** 182 + 19. **Annual.**
Cultivar. **Seed.**

PI 550076 **origin:** United States. **cultivar:** 224 + 11. **Annual.**
Cultivar. **Seed.**

PI 550077 **origin:** United States. **cultivar:** 227 + 196. **Annual.**
Cultivar. **Seed.**

PI 550078 **origin:** United States. **cultivar:** 241 + 0. **Annual.**
Cultivar. **Seed.**

PI 550079 **origin:** United States. **cultivar:** 245 + 136. **Annual.**
Cultivar. **Seed.**

PI 550080 **origin:** United States. **cultivar:** 246 + 27 BLUE LAKE
POLE. **Annual.** **Cultivar.** **Seed.**

PI 550081 **origin:** United States. **cultivar:** 249 + 166. **Annual.**
Cultivar. **Seed.**

PI 550082 **origin:** Mexico. **cultivar:** 262 + 207.60. **Annual.**
Cultivar. **Seed.**

PI 550083 **origin:** United States. **cultivar:** 264 + 3. **Annual.**
Cultivar. **Seed.**

PI 550084 **origin:** United States. **cultivar:** 2641 + 149. **Annual.**
Cultivar. **Seed.**

PI 550085 **origin:** United States. **cultivar:** 2685 + 179. **Annual.**
Cultivar. **Seed.**

PI 550086 **origin:** United States. **cultivar:** 455. **Annual.**
Cultivar. **Seed.**

PI 550087 **origin:** United States. **cultivar:** 459 + 0. **Annual.**
Cultivar. **Seed.**

PI 550056 to 550114-continued

- PI 550088 **origin:** United States. **cultivar:** 491 + 0. Annual.
Cultivar. Seed.
- PI 550089 **origin:** United States. **cultivar:** BART POLE. Annual.
Cultivar. Seed.
- PI 550090 **origin:** United States. **cultivar:** BIRD EGG. Annual.
Cultivar. Seed.
- PI 550091 **origin:** United States. **cultivar:** BIRD EGG POLE BEAN.
Annual. Cultivar. Seed.
- PI 550092 **origin:** United States. **cultivar:** BLACK SEEDED POLE BEAN.
Annual. Cultivar. Seed.
- PI 550093 **origin:** United States. **cultivar:** BUSH BEAN. Annual.
Cultivar. Seed.
- PI 550094 **origin:** United States. **cultivar:** BUSH BEAN. Annual.
Cultivar. Seed.
- PI 550095 **origin:** Mexico. **cultivar:** BUSH BEAN. Annual. Cultivar.
Seed.
- PI 550096 **origin:** United States. **cultivar:** BUSH BEAN. Annual.
Cultivar. Seed.
- PI 550097 **origin:** United States. **cultivar:** BUSH BEAN. Annual.
Cultivar. Seed.
- PI 550098 **origin:** United States. **cultivar:** CALIFORNIA BROWN BUSH.
Annual. Cultivar. Seed.
- PI 550099 **origin:** United States. **cultivar:** CRANBERRY-PRETTY PODS
POLE. Annual. Cultivar. Seed.
- PI 550100 **origin:** United States. **cultivar:** CUT SHORT. Annual.
Cultivar. Seed.
- PI 550101 **origin:** United States. **cultivar:** LATE POLE. Annual.
Cultivar. Seed.
- PI 550102 **origin:** United States. **cultivar:** NORTHERN BUSH DRY BEAN.
Annual. Cultivar. Seed.
- PI 550103 **origin:** United States. **cultivar:** PEARL ILL BUTTER BEAN.
Annual. Cultivar. Seed.
- PI 550104 **origin:** United States. **cultivar:** POLE 160. Annual.
Cultivar. Seed.

PI 550056 to 550114-continued

- PI 550105 **origin:** United States. **cultivar:** POLE 165. Annual.
Cultivar. Seed.
- PI 550106 **origin:** United States. **cultivar:** POLE 166. Annual.
Cultivar. Seed.
- PI 550107 **origin:** United States. **cultivar:** POLE PINTO. Annual.
Cultivar. Seed.
- PI 550108 **origin:** United States. **cultivar:** RAMS HORN. Annual.
Cultivar. Seed.
- PI 550109 **origin:** United States. **cultivar:** RATTLESNAKE. Annual.
Cultivar. Seed.
- PI 550110 **origin:** United States. **cultivar:** SHINEY. Annual.
Cultivar. Seed.
- PI 550111 **origin:** United States. **cultivar:** WHITE KENTUCKY WONDER.
Annual. Cultivar. Seed.
- PI 550112 **origin:** United States. **cultivar:** WHITE KENTUCKY WONDER
(POLE). Annual. Cultivar. Seed.
- PI 550113 **origin:** United States. **cultivar:** WRENS EGG (SPECKLED
CRANBERRY). Annual. Cultivar. Seed.
- PI 550114 **origin:** United States. **cultivar:** YANKEE NAVY PEA BEAN
SEED. Annual. Cultivar. Seed.

PI 550115 to 550117. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Sunseeds, Inc., California, United States. Received
1983.

- PI 550115 **origin:** United States. **origin institute:** Sunseeds, Inc.,
California. **cultivar:** BROKER'S CHOICE. **other id:** PVP
8100175. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.
- PI 550116 **origin:** United States. **origin institute:** Sunseeds, Inc.,
California. **cultivar:** PROFIT MAKER. **other id:** PVP
8100174. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.
- PI 550117 **origin:** United States. **origin institute:** Sunseeds, Inc.,
California. **cultivar:** SHANNON. **other id:** PVP 8200007.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 550118 to 550121. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1983.

PI 550118 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** LABRADOR. **other id:** PVP 8300067. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550119 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** MIDLAND. **other id:** PVP 8400006. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550120 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** NORTHLAND. **other id:** PVP 8400007. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550121 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** WESLAND. **other id:** PVP 8400008. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550122 to 550123. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Silbernagel, M. J., USDA, ARS, Irrig. Arg. Res. & Ext. Ct., PO Box 30, Prosser, Washington, United States. Received 1983.

PI 550122 **origin:** United States. **cultivar:** BLUE MOUNTAIN. **remarks:** Blue Lake bush type, resistant to curly top. For commercial processing, home and market garden. Also resistant to bean common mosaic virus. Can be mechanically harvested, and performs well in standard row or high density plantings. 4-6 tons per acre yield. Not well-suited for cool, cloudy areas but thrives in warm, dry climates. Maturity 65-70 days in West, 55-60 days elsewhere. Annual. Cultivar. Seed.

PI 550123 **origin:** United States. **cultivar:** GREENLIGHT. **remarks:** Developed as a northern latitude substitute for baby lima. Resistant to Bean Common Mosaic Virus and Curly Top Virus. Seed: green. Does not shell out of pod mechanically well. Well suited to home garden use as shell bean. Bush 12-14". Leaves are large and most pods are borne well above ground. At maturity, plants must be cut, windrowed, and harvested before pods are extremely dry to prevent shattering. Annual. Cultivar. Seed.

PI 550124. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Visser, C., Royal Sluis, Postbox 22 1600AA, Enkhuizen, Netherlands. Received 1983.

origin: Netherlands. **origin institute:** Royal Sluis.
cultivar: CABRETTA. **other id:** PVP 8200130. **source:**
Application abandoned/withdrawn. **group:** PVPO. Annual.
Cultivar. Seed.

PI 550125 to 550128. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Royal Sluis, Netherlands. Received 1983.

PI 550125 **origin:** Netherlands. **origin institute:** Royal Sluis.
cultivar: FLAVEOL. **other id:** PVP 8100101. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 550126 **origin:** Netherlands. **origin institute:** Royal Sluis.
cultivar: FRENCHY. **other id:** PVP 8000138. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 550127 **origin:** Netherlands. **origin institute:** Royal Sluis.
cultivar: LUTE. **other id:** PVP 8000137. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 550128 **origin:** Netherlands. **origin institute:** Royal Sluis.
cultivar: TREND. **other id:** PVP 8000139. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 550129. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Dean, Leslie L., United States. Received 1983.

origin: United States. **cultivar:** FIESTA PINTO. **other**
id: PVP 8200014. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 550130. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Musser Seed Company, Inc., California, United States.
Received 1983.

origin: United States. **origin institute:** Musser Seed
Company, Inc., California. **cultivar:** BUSH KENTUCKY
WONDER 125. **other id:** PVP 8200145. **source:** Certificate
in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550131 to 550132. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wilbur-Ellis Company, United States. Received 1983.

PI 550131 **origin:** United States. **origin institute:** Wilbur-Ellis Company. **cultivar:** PILGRIM. **other id:** PVP 8300037. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550132 **origin:** United States. **origin institute:** Wilbur-Ellis Company. **cultivar:** SNOWBALL. **other id:** PVP 8300038. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550133. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Kelly, J. D., Michigan State University, Crop & Soil Sciences, East Lansing, Michigan, United States. Received 1984.

origin: United States. **origin institute:** Michigan State University, East Lansing, Michigan. **cultivar:** C-20. **pedigree:** C-20 originated from a 3-way cross made in 1976 between the varieties -- JAMAPA/ NEP-2 // 73130-E2-B, W-20 and Kentwood. The cross was advanced using single seed descent to F4 generation. **other id:** PVP 8300150. **source:** Certificate in force. **group:** PVPO. **other id:** CV-43. **source:** Crop Sci. 24(4):822 1984. **group:** CSR-OTHER LEGUMES. **remarks:** Released to Michigan State University by Campbell Soup Co. in 1980. Upright, short vine plant habit. Stiff stem and deep taproot contributed to resistance to lodging. Resistant to delta strain of anthracnose. Resistant to indigenous rust races prevalent in Mich. (also resist. to races NB & CO). Carries tolerance to white mold, ozone air pollution & field tolerance to strains of Fusarium root rot present in WI. Annual. Cultivar. Seed.

PI 550134 to 550135. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1984.

PI 550134 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** ATLANTIC. **other id:** PVP 8400022. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550135 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** LATEMAR. **other id:** PVP 8400021. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550136. Phaseolus vulgaris L. FABACEAE Bean

Donated by: UF Genetics, Inc., United States. Received 1984.

origin: United States. **origin institute:** UF Genetics, Inc.. **cultivar:** MIKADO. **other id:** PVP 8400037. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550137. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Holland-Select B.V., Netherlands. Received 1984.

origin: Netherlands. **origin institute:** Holland-Select B.V.. **cultivar:** MONACO. **other id:** PVP 8200188. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550138 to 550139. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1984.

PI 550138 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** SAPPHIRE. **other id:** PVP 8400028. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550139 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** SHAMROCK. **other id:** PVP 8400147. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550140 to 550142. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Royal Sluis, Netherlands. Received 1984.

PI 550140 **origin:** Netherlands. **origin institute:** Royal Sluis. **cultivar:** NERINA. **other id:** PVP 8200131. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550141 **origin:** Netherlands. **origin institute:** Royal Sluis. **cultivar:** NOMARA. **other id:** PVP 8100100. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550142 **origin:** Netherlands. **origin institute:** Royal Sluis. **cultivar:** OVATION. **other id:** PVP 8200132. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550143 to 550144. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Mitsui Toatsu Chemicals, Inc., Japan. Received 1984.

PI 550143 **origin:** Japan. **origin institute:** Mitsui Toatsu Chemicals, Inc.. **cultivar:** SURFING. **other id:** PVP 8400067. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550144 **origin:** Japan. **origin institute:** Mitsui Toatsu Chemicals, Inc.. **cultivar:** SURFING F. **other id:** PVP 8400068. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550145 to 550148. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1984.

PI 550145 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** BOUNTY. **other id:** PVP 8400108. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550146 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** EARLY RISER. **other id:** PVP 8400098. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 550147 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** TOGA. **other id:** PVP 8400109. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550148 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** TORNADO. **other id:** PVP 8400090. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550149 to 550154. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1988.

PI 550149 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** BLUE RIDGE. **other id:** PVP 8900038. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550149 to 550154-continued

- PI 550150 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** DERBY. **other id:** PVP 8900039. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550151 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** HIALEAH. **other id:** PVP 8900040. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550152 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** MIRIAD. **other id:** PVP 8400091. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550153 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** PRIMO. **other id:** PVP 8900041. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550154 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** SHORE. **other id:** PVP 8800042. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550155 to 550157. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: van Waveren Pflanzenzucht G.M.B.H., Germany. Received 1984.

- PI 550155 **origin:** Germany. **origin institute:** van Waveren Pflanzenzucht G.M.B.H.. **cultivar:** ACCORD. **other id:** PVP 8400133. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550156 **origin:** Germany. **origin institute:** van Waveren Pflanzenzucht G.M.B.H.. **cultivar:** AMITY. **other id:** PVP 8400134. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550157 **origin:** Germany. **origin institute:** van Waveren Pflanzenzucht G.M.B.H.. **cultivar:** EVERGREEN. **other id:** PVP 8400132. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550158 to 550211. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Loiselle, R., Ottawa Research Station, Ottawa Research Station, Research Branch, Ottawa, Ontario, Canada. Received 1984.

PI 550158 to 550211-continued

PI 550158	origin: Portugal. Cultivar. Seed.	cultivar: PGR15781.	Annual.
PI 550159	origin: Portugal. Cultivar. Seed.	cultivar: PGR15782.	Annual.
PI 550160	origin: Portugal. Cultivar. Seed.	cultivar: PGR15783.	Annual.
PI 550161	origin: Portugal. Cultivar. Seed.	cultivar: PGR15784.	Annual.
PI 550162	origin: Portugal. Cultivar. Seed.	cultivar: PGR15785.	Annual.
PI 550163	origin: Portugal. Cultivar. Seed.	cultivar: PGR15786.	Annual.
PI 550164	origin: Portugal. Cultivar. Seed.	cultivar: PGR15787.	Annual.
PI 550165	origin: Portugal. Cultivar. Seed.	cultivar: PGR15788.	Annual.
PI 550166	origin: Portugal. Cultivar. Seed.	cultivar: PGR15789.	Annual.
PI 550167	origin: Portugal. Cultivar. Seed.	cultivar: PGR15790.	Annual.
PI 550168	origin: Portugal. Cultivar. Seed.	cultivar: PGR15791.	Annual.
PI 550169	origin: Portugal. Cultivar. Seed.	cultivar: PGR15792.	Annual.
PI 550170	origin: Portugal. Cultivar. Seed.	cultivar: PGR15793.	Annual.
PI 550171	origin: Portugal. Cultivar. Seed.	cultivar: PGR15794.	Annual.
PI 550172	origin: Portugal. Cultivar. Seed.	cultivar: PGR15795.	Annual.
PI 550173	origin: Portugal. Cultivar. Seed.	cultivar: PGR15796.	Annual.
PI 550174	origin: Portugal. Cultivar. Seed.	cultivar: PGR15797.	Annual.

PI 550158 to 550211-continued

PI 550175	origin: Portugal. Cultivar. Seed.	cultivar: PGR15798.	Annual.
PI 550176	origin: Portugal. Cultivar. Seed.	cultivar: PGR15799.	Annual.
PI 550177	origin: Portugal. Cultivar. Seed.	cultivar: PGR15800.	Annual.
PI 550178	origin: Portugal. Cultivar. Seed.	cultivar: PGR15801.	Annual.
PI 550179	origin: Portugal. Cultivar. Seed.	cultivar: PGR15802.	Annual.
PI 550180	origin: Portugal. Cultivar. Seed.	cultivar: PGR15803.	Annual.
PI 550181	origin: Portugal. Cultivar. Seed.	cultivar: PGR15804.	Annual.
PI 550182	origin: Portugal. Cultivar. Seed.	cultivar: PGR15805.	Annual.
PI 550183	origin: Portugal. Cultivar. Seed.	cultivar: PGR15806.	Annual.
PI 550184	origin: Portugal. Cultivar. Seed.	cultivar: PGR15807.	Annual.
PI 550185	origin: Portugal. Cultivar. Seed.	cultivar: PGR15808.	Annual.
PI 550186	origin: Portugal. Cultivar. Seed.	cultivar: PGR15809.	Annual.
PI 550187	origin: Portugal. Cultivar. Seed.	cultivar: PGR15810.	Annual.
PI 550188	origin: Portugal. Cultivar. Seed.	cultivar: PGR15811.	Annual.
PI 550189	origin: Portugal. Cultivar. Seed.	cultivar: PGR15812.	Annual.
PI 550190	origin: Turkey. Seed.	cultivar: PGR15813.	Annual. Cultivar.
PI 550191	origin: Turkey. Seed.	cultivar: PGR15814.	Annual. Cultivar.

PI 550158 to 550211-continued

PI 550192	origin: Turkey. Seed.	cultivar: PGR15815.	Annual.	Cultivar.
PI 550193	origin: Turkey. Seed.	cultivar: PGR15816.	Annual.	Cultivar.
PI 550194	origin: Turkey. Seed.	cultivar: PGR15817.	Annual.	Cultivar.
PI 550195	origin: Turkey. Seed.	cultivar: PGR15818.	Annual.	Cultivar.
PI 550196	origin: Turkey. Seed.	cultivar: PGR15819.	Annual.	Cultivar.
PI 550197	origin: Turkey. Seed.	cultivar: PGR15820.	Annual.	Cultivar.
PI 550198	origin: Turkey. Seed.	cultivar: PGR15821.	Annual.	Cultivar.
PI 550199	origin: Turkey. Seed.	cultivar: PGR15822.	Annual.	Cultivar.
PI 550200	origin: Turkey. Seed.	cultivar: PGR15823.	Annual.	Cultivar.
PI 550201	origin: Turkey. Seed.	cultivar: PGR15824.	Annual.	Cultivar.
PI 550202	origin: Turkey. Seed.	cultivar: PGR15825.	Annual.	Cultivar.
PI 550203	origin: Turkey. Seed.	cultivar: PGR15826.	Annual.	Cultivar.
PI 550204	origin: Turkey. Seed.	cultivar: PGR15827.	Annual.	Cultivar.
PI 550205	origin: Turkey. Seed.	cultivar: PGR15828.	Annual.	Cultivar.
PI 550206	origin: Turkey. Seed.	cultivar: PGR15829.	Annual.	Cultivar.
PI 550207	origin: Turkey. Seed.	cultivar: PGR15830.	Annual.	Cultivar.
PI 550208	origin: Turkey. Seed.	cultivar: PGR15831.	Annual.	Cultivar.

PI 550158 to 550211-continued

PI 550209 **origin:** Turkey. **cultivar:** PGR15832. Annual. Cultivar. Seed.

PI 550210 **origin:** Turkey. **cultivar:** PGR15833. Annual. Cultivar. Seed.

PI 550211 **origin:** Turkey. **cultivar:** PGR15834. Annual. Cultivar. Seed.

PI 550212 to 550213. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Kelly, J. D., Crop & Soil Sciences, Michigan State University, East Lansing, Michigan, United States. Received 1985.

PI 550212 **origin:** United States. **cultivar:** L226-10. **pedigree:** L226-10 originated as F2 single plant selections made in Michigan and reselected on a F3 row basis in Puerto Rico for multiple disease resistance, upright plant habit and vigor. Selections also made for erect architecture. **other id:** GP-50. **source:** Crop Sci. 25(4):714 1985. **group:** CSR-OTHER LEGUMES. **remarks:** Upright architectural type for Great Lakes temperature zone and high yield potential. Erect, short vine habit. Averages 50cm tall, narrow profile, few basal branches, well developed branches, tap roots and stiff hypocotyledon. Maturity 97-98 days. 1st white bean with high yield potential under tropical conditions. Carries single dominant hypersen. I-gene resistant to most strains bean common. Annual. Breeding Material. Seed.

PI 550213 **origin:** United States. **cultivar:** L227-1. **pedigree:** L227-1 originated as F2 single plant selections made in Michigan and reselected on a F3 row basis in Puerto Rico for multiple disease resistance, upright plant habit and vigor. Selections also made for erect architecture. **other id:** GP-51. **source:** Crop Sci. 25(4):714 1985. **group:** CSR-OTHER LEGUMES. **remarks:** Upright architectural type for Great Lakes temperature zone and high yield potential. Erect, short vine habit. Average 50cm tall, narrow profile, few basal branches, well developed branches, tap roots and stiff hypocotyledon. Maturity 97 days. 1st white bean with high yield potential under tropical conditions. Carries single dominant hypersen. I-gene resistant to most strains bean common mosaic (BCMV). Annual. Breeding Material. Seed.

PI 550214 to 550250. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Berrier, B. F., 1407 Grand, Canon City, Colorado, United States. Received 1985.

PI 550214 to 550250-continued

- PI 550214 **origin:** United States. **Annual.** Seed.
- PI 550215 **origin:** United States. **cultivar:** BLACK WAX DRY. **Annual.**
Cultivar. Seed.
- PI 550216 **origin:** United States. **cultivar:** BLONA. **Annual.**
Cultivar. Seed.
- PI 550217 **origin:** United States. **cultivar:** BOLITO. **Annual.**
Cultivar. Seed.
- PI 550218 **origin:** Germany. **cultivar:** BUSH BEAN. **Annual.**
Cultivar. Seed.
- PI 550219 **origin:** United States. **cultivar:** CHAMPAGNE - SNAP OR DRY
POLE B. **Annual.** Cultivar. Seed.
- PI 550220 **origin:** United States. **cultivar:** CLIMBING PINTO.
Annual. Cultivar. Seed.
- PI 550221 **origin:** United States. **cultivar:** CREASEBACK POLE BEAN.
Annual. Cultivar. Seed.
- PI 550222 **origin:** United States. **cultivar:** DUTCH BROWN. **Annual.**
Cultivar. Seed.
- PI 550223 **origin:** United States. **cultivar:** DUTCH OR JACOB'S
CATTLE. **Annual.** Cultivar. Seed.
- PI 550224 **origin:** United States. **cultivar:** DWARF HORTICULTURAL.
Annual. Cultivar. Seed.
- PI 550225 **origin:** United States. **cultivar:** FLAGEOLET BUSH DRY
BEAN. **Annual.** Cultivar. Seed.
- PI 550226 **origin:** United States. **cultivar:** FREJOL BLANCO CHICO.
Annual. Cultivar. Seed.
- PI 550227 **origin:** United States. **cultivar:** GASLESS EARLY BUSH
BEAN. **Annual.** Cultivar. Seed.
- PI 550228 **origin:** United States. **cultivar:** GREASY. **Annual.**
Cultivar. Seed.
- PI 550229 **origin:** United States. **cultivar:** ITALIAN. **Annual.**
Cultivar. Seed.
- PI 550230 **origin:** United States. **cultivar:** ITALIAN POLE BEAN.
Annual. Cultivar. Seed.
- PI 550231 **origin:** United States. **cultivar:** LONG FELLOW, BUSH.
Annual. Cultivar. Seed.

PI 550214 to 550250-continued

- PI 550232 **origin:** United States. **cultivar:** MARFAX OR MARROWFAT BUSH. Annual. Cultivar. Seed.
- PI 550233 **origin:** United States. **cultivar:** MICHIGAN YELLOW DRY BUSH. Annual. Cultivar. Seed.
- PI 550234 **origin:** United States. **cultivar:** MITLA BLACK BEAN. Annual. Cultivar. Seed.
- PI 550235 **origin:** United States. **cultivar:** NAVY BUSH BEAN. Annual. Cultivar. Seed.
- PI 550236 **origin:** United States. **cultivar:** NEW BEAN GINA. Annual. Cultivar. Seed.
- PI 550237 **origin:** United States. **cultivar:** PENCIL POD BLACK WAX, BUSH. Annual. Cultivar. Seed.
- PI 550238 **origin:** United States. **cultivar:** PINK PEANUT, BUNCH. Annual. Cultivar. Seed.
- PI 550239 **origin:** United States. **cultivar:** PINK TIP. Annual. Cultivar. Seed.
- PI 550240 **origin:** United States. **cultivar:** PRESNELL. Annual. Cultivar. Seed.
- PI 550241 **origin:** United States. **cultivar:** PURPLE POD POLE. Annual. Cultivar. Seed.
- PI 550242 **origin:** United States. **cultivar:** RED. Annual. Cultivar. Seed.
- PI 550243 **origin:** United States. **cultivar:** RED CRANBERRY, BUNCH. Annual. Cultivar. Seed.
- PI 550244 **origin:** United States. **cultivar:** RED SHELL. Annual. Cultivar. Seed.
- PI 550245 **origin:** United States. **cultivar:** RED SUGAR CUT SHORT. Annual. Cultivar. Seed.
- PI 550246 **origin:** United States. **cultivar:** SCOTIA CREASEBACK. Annual. Cultivar. Seed.
- PI 550247 **origin:** United States. **cultivar:** SOLDIER BUNCH BAKING BEANS. Annual. Cultivar. Seed.
- PI 550248 **origin:** United States. **cultivar:** SPRITE. Annual. Cultivar. Seed.

PI 550214 to 550250-continued

PI 550249 **origin:** United States. **cultivar:** WHITE KENTUCKY POLE (GREENPOD). Annual. Cultivar. Seed.

PI 550250 **origin:** United States. **cultivar:** ZEBRA. Annual. Cultivar. Seed.

PI 550251. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, United States. Received 1985.

origin: United States. **origin institute:** Ferry-Morse Seed Company. **cultivar:** MOUNT HOOD. **other id:** PVP 8000109. **source:** Application abandoned/withdrawn. **group:** PVPO. **other id:** E6211. **remarks:** Garden type bean. Maturity 50 days. Pods dark green, round, creaseback, dark flesh, no fiber, smooth, stringless, strong Blue Lake flavor. Seed white. Resistant to common mosaic virus and NY15 mosaic virus. Annual. Cultivar. Seed.

PI 550252. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Moran Seeds, Inc., United States. Received 1985.

origin: United States. **origin institute:** Moran Seeds, Inc.. **cultivar:** SAVOR. **other id:** PVP 8500036. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550253. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1985.

origin: United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** JAVELIN. **other id:** PVP 8500026. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550254 to 550255. Phaseolus vulgaris L. FABACEAE Bean

Donated by: NPI Seed Inc., United States. Received 1985.

PI 550254 **origin:** United States. **origin institute:** NPI Seed Inc.. **cultivar:** EZ HARVEST. **other id:** PVP 8500079. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550254 to 550255-continued

PI 550255 **origin:** United States. **origin institute:** NPI Seed Inc..
cultivar: EZ PICK. **other id:** PVP 8500080. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 550256 to 550257. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wilbur-Ellis Company, United States. Received 1985.

PI 550256 **origin:** United States. **origin institute:** Wilbur-Ellis
Company. **cultivar:** PULSAR. **other id:** PVP 8500063.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 550257 **origin:** United States. **origin institute:** Wilbur-Ellis
Company. **cultivar:** TANTA. **other id:** PVP 8500068.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 550258 to 550259. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States.
Received 1985.

PI 550258 **origin:** United States. **origin institute:** Rogers Brothers
Seed Co., Idaho. **cultivar:** BLAZER. **other id:** PVP
8500094. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 550259 **origin:** United States. **origin institute:** Rogers Brothers
Seed Co., Idaho. **cultivar:** BLUEPAK. **other id:** PVP
8500093. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 550260 to 550263. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received
1985.

PI 550260 **origin:** United States. **origin institute:** Asgrow Seed
Company, Michigan. **cultivar:** LARK. **other id:** PVP
8500139. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 550261 **origin:** United States. **origin institute:** Asgrow Seed
Company, Michigan. **cultivar:** LAUREAT. **other id:** PVP
8500137. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 550260 to 550263-continued

PI 550262 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** TESS. **other id:** PVP 8500135. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550263 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** VOLARE. **other id:** PVP 8500136. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550264. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Agri Sales, Inc., United States; and Gentec, Inc., United States. Received 1985.

origin: United States. **origin institute:** Agri Sales, Inc.. **cultivar:** AGRI-I. **other id:** PVP 8500104. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550265. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Sacramento Valley Milling Co., California, United States. Received 1985.

origin: United States. **origin institute:** Sacramento Valley Milling Co., California. **cultivar:** LASSEN. **other id:** PVP 8500164. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550266. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Seacat, Ronald D., United States; and Seacat, Leta L.. Received 1985.

origin: United States. **cultivar:** RS 101. **other id:** PVP 8500149. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550267. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Cheyenne USDA, ARS, Cheyenne Hort. Field Station, Cheyenne, Wyoming, United States. Received 1963.

origin: United States. **cultivar:** TRACY 34 TROGA. Annual. Cultivar. Seed.

PI 550268 to 550269. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Musser Seed Company, Inc., California, United States.
Received 1986.

PI 550268 **origin:** United States. **origin institute:** Musser Seed Company, Inc., California. **cultivar:** EARLISERVE. **other id:** PVP 8600049. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 550269 **origin:** United States. **origin institute:** Musser Seed Company, Inc., California. **cultivar:** SLENDERWAX. **other id:** PVP 8600051. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550270. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States.
Received 1986.

origin: United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** GOLDKIST. **other id:** PVP 8600053. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550271. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Gentec, Inc., United States. Received 1986.

origin: United States. **origin institute:** Gentec, Inc.. **cultivar:** CRESTWOOD. **other id:** PVP 8600075. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550272 to 550275. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Kelly, J. D., Michigan State University, Crop & Soil Sciences, East Lansing, Michigan, United States. Received 1990.

- PI 550272 **origin:** United States. **cultivar:** BLACK MAGIC. **pedigree:** Black Magic was a single F3 generation plant selection from the cross NEP-2/BTS. **other id:** CV-72. **source:** Crop Sci. 27(2):363 1987. **group:** CSR-OTHER LEGUMES. **remarks:** Among first selected for high yield based on ideotype breeding concept. Plants taller, more erect, narrower in profile, fewer basal branches and possess more dominant and stronger central axis than BTS par. Resistant to lodging. Short vine habit, average 55cm tall. Maturity 94-99 days. Stable in growth in different environments. Resistant to all strains of common mosaic virus and all races anthracnose. Annual. Cultivar. Seed.
- PI 550273 **origin:** United States. **cultivar:** DOMINO. **pedigree:** Domino was derived from a single F3 generation plant selection from the cross "NEP-2"/"Black Turtle Soup" (BTS). **other id:** CV-71. **source:** Crop Sci. 27(2):363 1987. **group:** CSR-OTHER LEGUMES. **remarks:** Among first selected for high yield based on ideotype breeding concept. Plants taller, more erect, narrower in profile, fewer basal branches and possess a more dominant and stronger control axis than BTS par. Resistant to lodging. Short vine habit, average 55cm tall. Maturity 94-99 days. Stable growth in different environments. Resistant to all strains common mosaic virus and gamma race anthracnose. Annual. Cultivar. Seed.
- PI 550274 **origin:** United States. **cultivar:** NEPTUNE. **pedigree:** Neptune was a single F3 generation plant selection from the three-way cross MSU #31906/San Fernando//Seafarer. **other id:** CV-70. **source:** Crop Sci. 26(5):1080 1986. **group:** CSR-OTHER LEGUMES. **remarks:** Among first dry bean cultivars selected for high yield based on ideotype breeding concept. Distinctive modified plant, erect, narrower in profile, with fewer basal branches and later flowering and maturity than standard navy bean cultivars. Short vine habit, average 50cm tall. Maturity 98-102 days. Resistant to all strains common mosaic, immune to indig. rust. Tolerant to air pollution oxidant (ozone),. Annual. Cultivar. Seed.

PI 550272 to 550275-continued

PI 550275 **origin:** United States. **origin institute:** Michigan State University, Crop and Soil Sciences, Michigan State University, E. Lansing, Michigan 48824. **cultivar:** SWAN VALLEY. **pedigree:** Swan Valley was derived from a single F5 generation plant selection from the cross NEP-2/Black Turtle Soup. **other id:** CV-69. **source:** Crop Sci. 26(5):1080 1986. **group:** CSR-OTHER LEGUMES. **remarks:** Among first dry bean cultivars selected for high yield based on ideotype breeding concept featuring distinctive modified plant architecture coupled with greater yield stability, plants taller, more erect, narrower in profile, with fewer basal branches and later flowering and maturity than standard navy bean cultivars. Short vine habit, average 50cm tall. Maturity 100-105 days. Resistant to all strains of. Annual. Cultivar. Seed.

PI 550276 to 550279. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1986.

PI 550276 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** BERYL. **other id:** PVP 8600088. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550277 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** FELSPAR. **other id:** PVP 8600089. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550278 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** TOPAZ. **other id:** PVP 8600090. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550279 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** VENTURE. **other id:** PVP 8600052. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550280 to 550287. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1986.

PI 550280 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** Bl69. **other id:** PVP 8600097. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550280 to 550287-continued

- PI 550281 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BRONCO. **other id:** PVP 8600095. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550282 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** EUREKA. **other id:** PVP 8600096. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550283 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** PODSQUAD. **other id:** PVP 8600099. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550284 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** SENTRY. **other id:** PVP 8600098. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550285 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** SPROUT. **other id:** PVP 8600160. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550286 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** STINGER. **other id:** PVP 8600155. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550287 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** YUKON. **other id:** PVP 8600094. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550288. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Harris Moran Seed Co., California, United States.
Received 1986.

origin: United States. **origin institute:** Harris Moran Seed Company, California. **cultivar:** HYSTYLE. **other id:** PVP 8600127. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550289 to 550290. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States.
Received 1986.

PI 550289 to 550290-continued

- PI 550289 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** BLUE KNIGHT. **other id:** PVP 8700025. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550290 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** STILETTO. **other id:** PVP 8700024. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550291. Phaseolus vulgaris L. FABACEAE Bean

Donated by: National Seed Dev. Organisation, Ltd., United Kingdom. Received 1987.

origin: United Kingdom. **origin institute:** National Seed Dev. Organisation, Ltd.. **cultivar:** ALBION. **other id:** PVP 8700154. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550292 to 550293. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States. Received 1987.

- PI 550292 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** CHAMP. **other id:** PVP 8700149. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550293 **origin:** United States. **origin institute:** Gallatin Valley Seed Co., Idaho. **cultivar:** STRIDE. **other id:** PVP 8700150. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 550294. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1987.

origin: United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** ROCKET. **other id:** PVP 8700153. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550295 to 550340. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Colorado USDA, ARS, Colorado, United States. Received 1987.

- PI 550295 **origin:** United States. **cultivar:** ALBERTO BROWN. Annual. Cultivar. Seed.
- PI 550296 **origin:** United States. **cultivar:** AZTEC 215. Annual. Cultivar. Seed.
- PI 550297 **origin:** United States. **cultivar:** AZTEC YELLOW POLE 218. Annual. Cultivar. Seed.
- PI 550298 **origin:** United States. **cultivar:** BEST OF ALL STRINGLESS WAX. Annual. Cultivar. Seed.
- PI 550299 **origin:** United States. **cultivar:** BLACK VALENTINE 333. Annual. Cultivar. Seed.
- PI 550300 **origin:** United States. **cultivar:** BOBOLINK POLE 281. Annual. Cultivar. Seed.
- PI 550301 **origin:** United States. **cultivar:** BROWN CROWER POLE 118. Annual. Cultivar. Seed.
- PI 550302 **origin:** United States. **cultivar:** CHAMPION WAX BUSH. Annual. Cultivar. Seed.
- PI 550303 **origin:** United States. **cultivar:** DADE POLE 517. Annual. Cultivar. Seed.
- PI 550304 **origin:** United States. **cultivar:** DAVIES WHITE WAX. Annual. Cultivar. Seed.
- PI 550305 **origin:** United States. **cultivar:** DIXIE BUTTER WHITE 128. Annual. Cultivar. Seed.
- PI 550306 **origin:** United States. **cultivar:** EARLY BUSH VERMONT 147. Annual. Cultivar. Seed.
- PI 550307 **origin:** United States. **cultivar:** FAIRMONT. Annual. Cultivar. Seed.
- PI 550308 **origin:** United States. **cultivar:** FREJOL BLANCO 530. Annual. Cultivar. Seed.
- PI 550309 **origin:** United States. **cultivar:** FRENCH FORCING. Annual. Cultivar. Seed.
- PI 550310 **origin:** United States. **cultivar:** FRIJOL ARROZ RICE 227. Annual. Cultivar. Seed.

PI 550295 to 550340-continued

- PI 550311 **origin:** United States. **cultivar:** IMPROVED KIDNEY WAX.
Annual. Cultivar. Seed.
- PI 550312 **origin:** United States. **cultivar:** INDIAN WOMAN 268.
Annual. Cultivar. Seed.
- PI 550313 **origin:** United States. **cultivar:** JACOBS CATTLE 354.
Annual. Cultivar. Seed.
- PI 550314 **origin:** United States. **cultivar:** JAPAN MUTATION 302.
Annual. Cultivar. Seed.
- PI 550315 **origin:** United States. **cultivar:** KAOHSING YARD LONG POLE
GREEN. Annual. Cultivar. Seed.
- PI 550316 **origin:** United States. **cultivar:** KEYSTONIAN BUSH.
Annual. Cultivar. Seed.
- PI 550317 **origin:** United States. **cultivar:** MCCASLAN POLE 543.
Annual. Cultivar. Seed.
- PI 550318 **origin:** United States. **cultivar:** MEXICAN HORT 353.
Annual. Cultivar. Seed.
- PI 550319 **origin:** United States. **cultivar:** MILTA CLIMBING 458.
Annual. Cultivar. Seed.
- PI 550320 **origin:** United States. **cultivar:** NANCY DAVIES STRIPED
CREASEBAC. Annual. Cultivar. Seed.
- PI 550321 **origin:** United States. **cultivar:** NEW LONG TENDERGREEN.
Annual. Cultivar. Seed.
- PI 550322 **origin:** United States. **cultivar:** NEW VICTORY. Annual.
Cultivar. Seed.
- PI 550323 **origin:** United States. **cultivar:** OREGON CONTACT 222.
Annual. Cultivar. Seed.
- PI 550324 **origin:** United States. **cultivar:** PORTO BLANCO CHICO 523.
Annual. Cultivar. Seed.
- PI 550325 **origin:** United States. **cultivar:** PROLIFIC BLACK WAX.
Annual. Cultivar. Seed.
- PI 550326 **origin:** United States. **cultivar:** RED & WHITE INDIAN POLE
231. Annual. Cultivar. Seed.
- PI 550327 **origin:** United States. **cultivar:** RED BUNCH CANADA 467.
Annual. Cultivar. Seed.

PI 550295 to 550340-continued

- PI 550328 **origin:** United States. **cultivar:** REFERGEE 1000 TO 1.
Annual. Cultivar. Seed.
- PI 550329 **origin:** United States. **cultivar:** SANTA PENQUITO 336.
Annual. Cultivar. Seed.
- PI 550330 **origin:** United States. **cultivar:** SHIPPS GREEN POD.
Annual. Cultivar. Seed.
- PI 550331 **origin:** United States. **cultivar:** SOUTHERN 2652. Annual.
Cultivar. Seed.
- PI 550332 **origin:** United States. **cultivar:** SPECIAL STRINGLESS
BURGESS. Annual. Cultivar. Seed.
- PI 550333 **origin:** United States. **cultivar:** SPECKLED CRANBERRY 519.
Annual. Cultivar. Seed.
- PI 550334 **origin:** United States. **cultivar:** SPOTTED MEXICAN 330.
Annual. Cultivar. Seed.
- PI 550335 **origin:** United States. **cultivar:** STRINGLESS HENDERSON.
Annual. Cultivar. Seed.
- PI 550336 **origin:** United States. **cultivar:** TRACY 2. Annual.
Cultivar. Seed.
- PI 550337 **origin:** United States. **cultivar:** TRACY 36 TRAGG.
Annual. Cultivar. Seed.
- PI 550338 **origin:** United States. **cultivar:** VICTORY. Annual.
Cultivar. Seed.
- PI 550339 **origin:** United States. **cultivar:** VIRGINIA WONDER.
Annual. Cultivar. Seed.
- PI 550340 **origin:** United States. **cultivar:** WINE SEED 350. Annual.
Cultivar. Seed.

PI 550341 to 550343. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States.
Received 1987.

- PI 550341 **origin:** United States. **origin institute:** Ferry-Morse
Seed Company, California. **cultivar:** FLATBUSH. **other id:**
PVP 8800025. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 550341 to 550343-continued

PI 550342 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** SLENDERELLA. **other id:** PVP 8800019. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550343 **origin:** United States. **origin institute:** Ferry-Morse Seed Company, California. **cultivar:** TRUEBLUE. **other id:** PVP 8800011. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550344 to 550346. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1988.

PI 550344 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** APPLAUSE. **other id:** PVP 8800091. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 550345 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BISCAYNE. **other id:** PVP 8800162. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550346 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** HOMESTYLE. **other id:** PVP 8800118. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550347 to 550401. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: USDA, ARS, National Seed Storage Lab, Colorado State University, Ft. Collins, Colorado, United States. Received 1988.

PI 550347 **origin:** United States. **cultivar:** BI JO. Annual. Cultivar. Seed.

PI 550348 **origin:** United States. **cultivar:** BIAD. Annual. Cultivar. Seed.

PI 550349 **origin:** United States. **cultivar:** BIAP. Annual. Cultivar. Seed.

PI 550350 **origin:** United States. **cultivar:** BIAS. Annual. Cultivar. Seed.

PI 550351 **origin:** United States. **cultivar:** BIAX. Annual. Cultivar. Seed.

PI 550347 to 550401-continued

PI 550352	origin: United States. Cultivar. Seed.	cultivar: BIBE.	Annual.
PI 550353	origin: United States. Cultivar. Seed.	cultivar: BIBY.	Annual.
PI 550354	origin: United States. Cultivar. Seed.	cultivar: BICA.	Annual.
PI 550355	origin: United States. Cultivar. Seed.	cultivar: BICY.	Annual.
PI 550356	origin: United States. Cultivar. Seed.	cultivar: BIF.	Annual.
PI 550357	origin: United States. Cultivar. Seed.	cultivar: BIFF.	Annual.
PI 550358	origin: United States. Cultivar. Seed.	cultivar: BIGS.	Annual.
PI 550359	origin: United States. Cultivar. Seed.	cultivar: BIKA.	Annual.
PI 550360	origin: United States. Cultivar. Seed.	cultivar: BIKE.	Annual.
PI 550361	origin: United States. Cultivar. Seed.	cultivar: BIM.	Annual.
PI 550362	origin: United States. Cultivar. Seed.	cultivar: BIOT.	Annual.
PI 550363	origin: United States. Cultivar. Seed.	cultivar: BIPI.	Annual.
PI 550364	origin: United States. Cultivar. Seed.	cultivar: BIR.	Annual.
PI 550365	origin: United States. Cultivar. Seed.	cultivar: BIS.	Annual.
PI 550366	origin: United States. Cultivar. Seed.	cultivar: BIVA.	Annual.
PI 550367	origin: United States. Annual. Cultivar. Seed.	cultivar: BLACK VALENTINE GP.	
PI 550368	origin: United States. Annual. Cultivar. Seed.	cultivar: BROWN SUGAR CROWDER.	

PI 550347 to 550401-continued

- PI 550369 **origin:** United States. **cultivar:** BURGESS SPECIAL STRINGLESS. Annual. Cultivar. Seed.
- PI 550370 **origin:** United States. **cultivar:** BURPEES KIDNEY WAX. Annual. Cultivar. Seed.
- PI 550371 **origin:** United States. **cultivar:** CROSS POLLINATE. Annual. Cultivar. Seed.
- PI 550372 **origin:** United States. **cultivar:** CURRIES RUST PROOF WAX. Annual. Cultivar. Seed.
- PI 550373 **origin:** United States. **cultivar:** EARLY WHITE. Annual. Cultivar. Seed.
- PI 550374 **origin:** United States. **cultivar:** FLORIDA SPECKLED POLE. Annual. Cultivar. Seed.
- PI 550375 **origin:** United States. **cultivar:** HODGE LOCAL. Annual. Cultivar. Seed.
- PI 550376 **origin:** United States. **cultivar:** HORTICULTURAL DWARF. Annual. Cultivar. Seed.
- PI 550377 **origin:** United States. **cultivar:** PINTO VINE. Annual. Cultivar. Seed.
- PI 550378 **origin:** United States. **cultivar:** PINTO WYO. Annual. Cultivar. Seed.
- PI 550379 **origin:** United States. **cultivar:** STRINGLESS VALENTINE. Annual. Cultivar. Seed.
- PI 550380 **origin:** United States. **cultivar:** TRABIF. Annual. Cultivar. Seed.
- PI 550381 **origin:** United States. **cultivar:** TRABIG. Annual. Cultivar. Seed.
- PI 550382 **origin:** United States. **cultivar:** TRABIV. Annual. Cultivar. Seed.
- PI 550383 **origin:** United States. **cultivar:** TRABIZ. Annual. Cultivar. Seed.
- PI 550384 **origin:** United States. **cultivar:** TRABOT. Annual. Cultivar. Seed.
- PI 550385 **origin:** United States. **cultivar:** TRABOX. Annual. Cultivar. Seed.

PI 550347 to 550401-continued

PI 550386	origin: United States. Cultivar. Seed.	cultivar: TRACAB.	Annual.
PI 550387	origin: United States. Cultivar. Seed.	cultivar: TRAF.	Annual.
PI 550388	origin: United States. Cultivar. Seed.	cultivar: TRAG.	Annual.
PI 550389	origin: United States. Cultivar. Seed.	cultivar: TRAGE.	Annual.
PI 550390	origin: United States. Cultivar. Seed.	cultivar: TRALA.	Annual.
PI 550391	origin: United States. Cultivar. Seed.	cultivar: TRALL.	Annual.
PI 550392	origin: United States. Cultivar. Seed.	cultivar: TRAMA.	Annual.
PI 550393	origin: United States. Cultivar. Seed.	cultivar: TRAMO.	Annual.
PI 550394	origin: United States. Cultivar. Seed.	cultivar: TRANA.	Annual.
PI 550395	origin: United States. Cultivar. Seed.	cultivar: TRAPA.	Annual.
PI 550396	origin: United States. Cultivar. Seed.	cultivar: TRAPE.	Annual.
PI 550397	origin: United States. Cultivar. Seed.	cultivar: TRASS.	Annual.
PI 550398	origin: United States. Cultivar. Seed.	cultivar: TRASY.	Annual.
PI 550399	origin: United States. Cultivar. Seed.	cultivar: TRATA.	Annual.
PI 550400	origin: United States. Cultivar. Seed.	cultivar: TRATE.	Annual.
PI 550401	origin: United States. Cultivar. Seed.	cultivar: TRAVY.	Annual.

PI 550402. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Bakker Brothers of Idaho, Inc., Idaho, United States.
Received 1988.

origin: United States. **origin institute:** Bakker Brothers of Idaho, Inc., Idaho. **cultivar:** EARLY SUNRAY. **other id:** PVP 8800069. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550403 to 550408. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States.
Received 1988.

PI 550403 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** BX 156-2-3-6. **other id:** PVP 8800110. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550404 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** COLT. **other id:** PVP 8800107. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550405 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** KENT. **other id:** PVP 8800111. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550406 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** MCHARVEST. **other id:** PVP 8800109. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550407 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** MINIGREEN. **other id:** PVP 8800108. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550408 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** WAX 79-216. **other id:** PVP 8800112. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550409 to 550419. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States.
Received 1989.

PI 550409 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** AGASSIZ. **other id:** PVP 8900188. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550409 to 550419-continued

- PI 550410 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** AUBURN. **other id:** PVP 8900193. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550411 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** BUSH ROMANO 635. **other id:** PVP 8900131. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550412 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** CINNABAR. **other id:** PVP 8900127. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550413 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** D80024. **other id:** PVP 8900129. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550414 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** D81126. **other id:** PVP 8900187. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550415 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** D83043. **other id:** PVP 8900190. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550416 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** FLINT. **other id:** PVP 8900128. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550417 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** GUARDIAN. **other id:** PVP 8900192. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550418 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** MARQUIS. **other id:** PVP 8900189. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 550419 **origin:** United States. **origin institute:** Rogers Brothers Seed Co., Idaho. **cultivar:** SCHOONER. **other id:** PVP 8900191. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550420 to 550427. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1989.

PI 550420 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** ACCLAIM. **other id:** PVP 8900151. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550421 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** BRIO. **other id:** PVP 8900163. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550422 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** CREST. **other id:** PVP 8900199. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550423 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** LEGION. **other id:** PVP 8900164. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550424 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** MAGNUM. **other id:** PVP 8900153. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550425 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** MUSTANG. **other id:** PVP 8900165. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550426 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** TEMA. **other id:** PVP 8900152. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550427 **origin:** United States. **origin institute:** Asgrow Seed Company, Michigan. **cultivar:** XP-B212. **other id:** PVP 8900217. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550428. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Adobe Milling Co., Inc., United States. Received 1989.

origin: United States. **origin institute:** Adobe Milling Co., Inc.. **cultivar:** ANASAZI. **other id:** PVP 8900200. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 550429 to 550430. Phaseolus vulgaris L. FABACEAE Bean

Donated by: USDA, ARS, National Seed Storage Lab, Colorado State University, Ft. Collins, Colorado, United States. Received 1989.

PI 550429 **origin:** United States. **cultivar:** EXTRA EARLY. Annual. Cultivar. Seed.

PI 550430 **origin:** United States. **cultivar:** TRABIL. Annual. Cultivar. Seed.

PI 550431 to 550433. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Vilmorin, S.A., France. Received 1989.

PI 550431 **origin:** France. **origin institute:** Vilmorin, S.A.. **cultivar:** CASTEL. **other id:** PVP 8900248. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550432 **origin:** France. **origin institute:** Vilmorin, S.A.. **cultivar:** LABEL. **other id:** PVP 8900184. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550433 **origin:** France. **origin institute:** Vilmorin, S.A.. **cultivar:** VILBEL. **other id:** PVP 8900185. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550434 to 550436. Phaseolus vulgaris L. FABACEAE Bean

Donated by: van Waveren Pflanzenzucht G.M.B.H., Germany. Received 1989.

PI 550434 **origin:** Germany. **origin institute:** van Waveren Pflanzenzucht G.M.B.H.. **cultivar:** IRINA. **other id:** PVP 8900245. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550435 **origin:** Germany. **origin institute:** van Waveren Pflanzenzucht G.M.B.H.. **cultivar:** OMEGA. **other id:** PVP 8900246. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550436 **origin:** Germany. **origin institute:** van Waveren Pflanzenzucht G.M.B.H.. **cultivar:** WAV610. **other id:** PVP 8900247. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 550437 to 550439. Phaseolus vulgaris L. FABACEAE Bean

Donated by: National Seed Storage Lab, CSU Campus, Ft Collins, Co, United States. Received January 1991.

PI 550437 to 550439-continued

PI 550437 **origin:** United States. **cultivar:** BIX. Annual.
Cultivar. Seed.

PI 550438 **origin:** United States. **cultivar:** GOLDEN NO WILT.
Annual. Cultivar. Seed.

PI 550439 **origin:** United States. **cultivar:** PAINTED LADY. Annual.
Cultivar. Seed.

PI 550440. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Agricultural Research Service -- USDA, Iowa State
University, Ames, Iowa, United States. Received 1966.

origin: United States. **origin institute:** Iowa Agr. and
Home Econ. Exp. Station, Iowa State University, Ames,
Iowa 50010. **cultivar:** B64. **pedigree:** 41.2504B/3*B14.
other id: GP-3. **source:** Crop Sci. 11(1):140 1971.
group: CSR-MAIZE. **remarks:** Maturity is late AES800. Good
tolerance to western corn rootworm (*Diabrotica*
virgifera). Moderate resistance to first brood of
European corn borer (*Ostrinia nubilalis*). Annual.
Breeding Material. Seed.

PI 550441. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Missouri Agr. Exp. Sta., University of Missouri,
Columbia, Missouri, United States. Received 1968.

origin: United States. **origin institute:** Missouri Agr.
Exp. Sta., University of Missouri, Columbia, Missouri
65201. **cultivar:** MO18W. **pedigree:** WF9/Mo22. **other id:**
PL-34. **source:** Crop Sci. 13(6):779 1973. **group:**
CSR-MAIZE. **remarks:** Endosperm white. Cob white. Maturity
is AES1000. Resistant to strain A of maize dwarf mosaic
virus and corn stunt. Annual. Breeding Material. Seed.

PI 550442. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Missouri Agr. Exp. Sta., University of Missouri,
Columbia, Missouri, United States. Received 1971.

PI 550442-continued

origin: United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri 65201. **cultivar:** MO20W. **pedigree:** N6/Mo22. **other id:** PL-35. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm white. Cob white. Maturity is AES800. Stalk quality good. Inbred line easy to maintain. Good resistance to maize dwarf mosaic virus. Annual. Breeding Material. Seed.

PI 550443 to 550472. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa, United States. Received 1971.

PI 550443 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B49. **pedigree:** A277/41.2504B. **other id:** GP-1. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Maturity is AES900. Very high resistance to first brood of European corn borer (*Ostrinia nubilalis*) and good resistance to second brood. Some resistance to northern corn leaf blight (*Helminthosporium turcicum*) and corn leaf rust (*Puccinia sorghi*). Annual. Breeding Material. Seed.

PI 550444 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Stiff Stalk Synthetic No. 2. **pedigree:** Cross between two strains of Iowa Stiff Stalk Synthetic. The first strain developed after 4 cycles of reciprocal recurrent selection for yield and the second strain after 6 cycles for general combining ability. **other id:** GP-10. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Synthetic line developed to study effects of recurrent selection on mean yields and genetic variability. Annual. Breeding Material. Seed.

PI 550445 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Super Stiff Stalk Synthetic. **pedigree:** Combined 10 inbred lines selected from the original Iowa Stiff Stalk Synthetic. The lines are B10, B14, B37, B40, B43, B44, R101, (B11/B13)-1-8, SSS312-3. **other id:** GP-11. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Root and stalk strength good. High general combining ability. Annual. Breeding Material. Seed.

PI 550443 to 550472-continued

- PI 550446 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Two-Ear Synthetic No. 1. **pedigree:** Combined 10 lines (R71, ITE701, HD2158, HD2244, HD2418, B58, B60, (N32/2*B14)-1-30-4, (Oh43/B33)-139, Krug-792). HD2158 and HD2244 from Iowa Stiff Stalk Synthetic. HD2418 from Iowa Stiff Stalk Synthetic/W22. **other id:** GP-12. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** All lines in synthetic have 2 ears per plant and good combining ability. Annual. Breeding Material. Seed.
- PI 550447 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Long Ear Synthetic. **pedigree:** Combined 12 inbred lines (B50, B55, B56, B217, B217-waxy endosperm, C103, N22A, N25, Oh29, W-17R-B, (B15/B18)-16, (Lanc. Comp.)-34, (L317/187-2)-1-1-9) with above average ear length. **other id:** GP-13. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** All lines in synthetic have above average combining ability. Annual. Breeding Material. Seed.
- PI 550448 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Synthetic AA. **pedigree:** Combined 57 lines of best breeding material available to provide broad genetic base for quantitative genetic studies. **other id:** GP-14. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** The lines include: A223, A257, A264, A265, A295, B6, B7, B9A, B42, B49, B51, B54, B55, B56, B57, B60, B67, C103, C.I.31A, C.I.187-2, H19, H49, H51, K148, K150, Mo5, Mo6, Moll, Mo4582, Ms59-1, Ms109, Ms111, N6, N9, N15, N22A, N25, N29, N30, N38, Oh4G, Oh41, Oh43, Oh45, Pa70, Pa83, R61, R71, R109B, R134, R151, R154, R181, W64A, L317, Os420, WF9. Annual. Breeding Material. Seed.
- PI 550449 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Synthetic BB. **pedigree:** Combined 44 lines of best breeding material available to provide broad genetic base for quantitative genetic studies. **other id:** GP-15. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** The lines include: A239, A297, A427, A570, A622, B14, B37, B39, B44, B46, C.I.21E, H55, H59, H60, H71, K4, K155, Moll225, Ms116, Ms128, Ms129, Ms214, N4, N7, N20, N28, Oh7N, Oh25F, Oh51A, Pa11, Pa32, Pa33, Pa886P, Pa887P, R101, R168, W22, HD2158, HD2244, HD2418, ITE701, M14, Hy, and (N32/2*B14)-1-30-4. Annual. Breeding Material. Seed.

PI 550450 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Corn Borer Synthetic No. 3. **pedigree:** Combined 16 lines: B49, B53, B55, C.I.31A, Msl, W22, (B33/Oh43)-8-1-2, (Pa. Int. Syn.)-22-4-1, (Syn. A)-97-1-2, Midland-8-1-2, (M14/A206//Oh4C)-33-1-2, P33-2-2, WF9/458-1 (Pa. Sel.)-755-228, HD225, (Minn. Syn. No. 1)-24. **other id:** GP-16. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** All parent lines have intermediate to excellent resistance to first brood of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550451 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Corn Borer Synthetic No. 4. **pedigree:** Developed after 3 cycles of recurrent selection in A.E.S. Synthetic A. A.E.S. Synthetic A composed of C.I.7, WF9, K148, 187-2, L317, Tr, 38-11, Os420, NC7, Oh40B, B18, R4, L97, C14, L503, and W16. **other id:** GP-17. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Resistant to the first brood of the European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550452 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Corn Borer Synthetic No. 5. **pedigree:** Developed after 3 cycles of recurrent selection in A.E.S. Synthetic B. A.E.S. Synthetic B composed of K155, W22, B10, Oh33, P8, C103, Hy, 540, C.I.27, A347, K4, M14, NC34, A131, Hyd1100.3, and A148. **other id:** GP-18. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Resistant to the first brood of the European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550453 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Corn Borer Synthetic No. 6. **pedigree:** Developed after 3 cycles of recurrent selection in Pennsylvania Early Synthetic. Pennsylvania Synthetic composed of A, A71, C103, K155, NC34, Oh04, Oh26, Oh40B, W23, 1205, L317, Os420, WF9, and M14 among others. **other id:** GP-19. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Resistant to first brood of European corn borer (*Ostrinia nubilalis*). Pennsylvania Synthetic developed by Dr. Wernham at Pennsylvania State Univ. for resistance to northern corn leaf blight (*Helminthosporium turcicum*). Pennsylvania Early Synthetic is an early selection of Pennsylvania Synthetic. Annual. Breeding Material. Seed.

PI 550443 to 550472-continued

- PI 550454 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B52. **pedigree:** Inbred line of unknown origin, obtained from a private breeder. **other id:** GP-2. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Seed yield good. Stalk extremely hard. Root system strong. Maturity is AES800. Near immunity to second brood of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.
- PI 550455 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B67. **pedigree:** Selected from Iowa Stiff Stalk Synthetic using the doubled monoploid method. **other id:** GP-4. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Plant vigorous, with tendency to produce 2 ears per plant. Maturity is AES800. Some tolerance to western corn rootworm (*Diabrotica virgifera*). Annual. Breeding Material. Seed.
- PI 550456 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B69. **pedigree:** Selected from Iowa Stiff Stalk Synthetic using the doubled monoploid method. **other id:** GP-5. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Plant vigorous. Maturity is AES800. Resistant to western corn rootworm (*Diabrotica virgifera*). Some resistance to corn leaf blight (*Helminthosporium turcicum*). Annual. Breeding Material. Seed.
- PI 550457 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa Elite Line Synthetic No. 1. **pedigree:** Combined 12 inbred lines (A257, A619, B14A, B52, B54, B55, B56, B57, C103, R168, R181, and (Minn. Syn. No. 1) sel. 24. **other id:** GP-6. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Synthetic population providing broad genetic variability in silking data and rate of moisture loss. Annual. Breeding Material. Seed.

- PI 550458 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa High Oil Synthetic No. 1. **pedigree:** Ford's Hi Oil Synthetic/Indiana Synthetic A Indiana Synthetic A developed from A.E.S. Synthetic A which is composed of 12 lines (C.I.17, WF9, K148, 187-2, L317, Tr, 38-11, Os420, NC7, Oh40B, B18, R4, L97, C14, L503, W16). **other id:** GP-7. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Population with broad genetic variability for grain oil content. Indiana Synthetic A selected for resistance to northern corn leaf blight (*Helminthosporium turcicum*) and southern corn leaf blight (*H. maydis*). Annual. Breeding Material. Seed.
- PI 550459 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Iowa High Oil Synthetic No. 2. **pedigree:** Waxy Os420 Hi Oil Synthetic/Indiana Synthetic B Indiana Synthetic B developed from A.E.S. Synthetic B which is composed of 16 lines (K155, W22, B10, Oh33, P8, C103, Hy, 540, C.I.27, A347, K4, M14, NC34, A131, Hyd1100.3, A148). **other id:** GP-8. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Population developed with broad genetic variability for grain oil content. Indiana Synthetic B selected for resistance to northern corn leaf blight (*Helminthosporium turcicum*) and southern corn leaf blight (*H. maydis*). Annual. Breeding Material. Seed.
- PI 550460 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** Tuxlan Synthetic. **pedigree:** Population composed of 25% Tuxpeno (Mexican race) and 75% Lancaster Surecrop (Tuxpeno/2*Lancaster). **other id:** GP-9. **source:** Crop Sci. 11(1):140 1971. **group:** CSR-MAIZE. **remarks:** Developed to provide a source of exotic germplasm. Annual. Breeding Material. Seed.
- PI 550461 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B14A. **pedigree:** (Cuzco/Early Dent)Selection//8*B14. **other id:** PL-1. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Fast ear drying. Yield above average. Maturity is AES800. Resistant to root and stalk lodging. High resistance to all known biotypes of corn leaf rust (*Puccinia sorghi*). Good tolerance to western corn rootworm (*Diabrotica virgifera*). Annual. Breeding Material. Seed.

PI 550443 to 550472-continued

- PI 550462 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B59. **pedigree:** N32/2*B14. **other id:** PL-10. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Ear placement high. Tendency to produce 2 ears per plant. Maturity is AES700. Intermediate resistance to first brood of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.
- PI 550463 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B65. **pedigree:** Ky114/3*WF9//41.2504B/3*WF9. **other id:** PL-11. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Maturity is AES800. Resistant to root stalk lodging. Good resistance to first brood of European corn borer (*Ostrinia nubilalis*), with intermediate resistance to second brood. Annual. Breeding Material. Seed.
- PI 550464 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B66. **pedigree:** B33/Oh43. **other id:** PL-12. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Leaves erect. Maturity is AES700. Intermediate resistance to European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.
- PI 550465 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B68. **pedigree:** 41.2504B/3*B14. **other id:** PL-13. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Vigorous inbred line, similar to B14 in plant and ear type, silks 4-5 days later. Maturity is AES800. Good resistance to first brood of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.
- PI 550466 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B70. **pedigree:** C103/M14. **other id:** PL-16. **source:** Crop Sci. 12(5):721 1972. **group:** CSR-MAIZE. **remarks:** Plant vigorous. Seed hard textured, shallow dented, dark yellow. Seed yield good. Silk emergence 4 days later than M14. Maturity is AES700. Annual. Breeding Material. Seed.

PI 550443 to 550472-continued

- PI 550467 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B37. **pedigree:** Selected from Iowa Stiff Stalk Synthetic. **other id:** PL-2. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Plant vigorous. Seed yield good. Pollen production poor. Root and stalk strength moderate. Maturity is AES800. Some resistance to northern corn leaf blight (*Helminthosporium turcicum*). Annual. Breeding Material. Seed.
- PI 550468 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B45. **pedigree:** W22/B10. **other id:** PL-4. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Plant vigorous. Seed yield high. Displays tassel blast and pollen sterility under low soil moisture, low humidity and high temperature conditions. Maturity is AES800. Annual. Breeding Material. Seed.
- PI 550469 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B46. **pedigree:** W22/B10. **other id:** PL-5. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Sister line of B45. Plant vigor less and more resistant to root and stalk lodging than B45. Maturity is AES800. Annual. Breeding Material. Seed.
- PI 550470 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B54. **pedigree:** Selected from Iowa Corn Borer Synthetic No. 1. **other id:** PL-6. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Inbred plant small, medium height. Pollen production sparse. Ear small. Maturity is AES700. Moderate resistant to first brood of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.
- PI 550471 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B56. **pedigree:** Alph/38-11. **other id:** PL-8. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Inbred vigorous. Pollen production good. Seed yield high. Ear long and slender. Maturity is AES800. Annual. Breeding Material. Seed.

PI 550443 to 550472-continued

PI 550472 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B57. **pedigree:** Selected from open-pollinated 'Midland'. **other id:** PL-9. **source:** Crop Sci. 11(1):143 1971. **group:** CSR-MAIZE. **remarks:** Plant type excellent, short stature. Pollen production and seed yield excellent. Maturity is AES800. Carries gene(s) causing partial pollen restoration for Texas-type male-sterile cytoplasm. Some resistance to northern corn leaf blight (*Helminthosporium turcicum*) and corn leaf rust (*Puccinia sorghi*). Moderate resistance to first brood of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550473. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa, United States. Received 1972.

origin: United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B73. **pedigree:** Selected from advanced recurrent selection population (C5) of Iowa Stiff Stalk Synthetic (BSSS). **other id:** PL-17. **source:** Crop Sci. 12(5):721 1972. **group:** CSR-MAIZE. **remarks:** Plant vigorous. Leaves erect. Pollen production average. Seed smooth dent. Maturity is AES800. Annual. Breeding Material. Seed.

PI 550474 to 550483. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Agricultural Research Service -- USDA, Iowa State University, Ames, Iowa, United States. Received 1973.

PI 550474 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** BS3. **pedigree:** Population developed for broad genetic base from elite inbred lines and populations using various methods of recurrent selection. Companion to BS4. **other id:** GP-26. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-MAIZE. **remarks:** Combined 24 lines: BSBB, BSTL, BSS2, VCBS(S)C4, BSSS(HT)C7, BSSS(R)C5, BS10(FR)C1, BSCB3(S)C1, Nebraska Stiff Stalk, Nebraska B, BSCB4/BS8, BSCB5/BS8, BSCB9/BS8, BSL(S)C4/BS8, Iowa Late Rootworm Synthetic, B52/BS8, BS12(HT)C5/BS8, MO-CRW, Illinois Stalk Rot Synthetic, Oh43 Ht, bulk (B68, B69, B72, B73), bulk (Oh508, Oh509, Oh510), bulk (N7B, N28, N31, N101, N103, N104, N138), bulk (H60, H84, H88, H91, H92,. Annual. Breeding Material. Seed.

- PI 550475 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** BS4. **pedigree:** Population developed for broad genetic base with elite inbred lines and populations using various methods of recurrent selection. Companion to BS3. **other id:** GP-27. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-MAIZE. **remarks:** Combined 21 lines: BSAA, BS2, BS11(FR)C1, BSCB1(R)C5, BSK(S)C5, Nebraska Kurg, BSCB7, BSLE, Nebraska Havs Golden [(M)C14,(MT)C15,(MP)C9], Iowa Early Rootworm Synthetic/BS7, B52/BS7, BS14/BS7, SD-CRW, Illinois Stalk Rot Synthetic, B14Ht, Illinois Ht-MDM Synthetic, BS7, bulk (B70, B71), bulk (Oh507, Oh511, Oh512), bulk (Mo3, Mo5, Mo6, Moll, Mol7, Mol9), bult (H49, H95, N22A). Population available in 4. Annual. Breeding Material. Seed.
- PI 550476 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** BS10(FR)C2. **pedigree:** Developed by 2 cycles of reciprocal full-sib selection from Iowa Two-ear Synthetic #1 with Pioneer Two-ear Composite as the tester. **other id:** GP-28. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-MAIZE. **remarks:** Selected primarily for yield. Superior to Iowa Two-ear Synthetic #1 in yield, prolificacy, and stalk quality. Annual. Breeding Material. Seed.
- PI 550477 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** BS11(FR)C2. **pedigree:** Population developed by 2 cycles of reciprocal full-sib selection from Pioneer Two-ear Composite, with Iowa Two-ear Synthetic #1 as the tester. **other id:** GP-29. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-MAIZE. **remarks:** Selected primarily for yield. Superior to Pioneer Two-ear Composite in yield, prolificacy and stalk quality, 5 days earlier in flowering. Annual. Breeding Material. Seed.
- PI 550478 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** BS12(HI)C5. **pedigree:** Population derived from open-pollinated 'Alph' by 5 cycles of recurrent selection for specific combining ability with inbred B14 as the tester. **other id:** GP-30. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-MAIZE. Annual. Breeding Material. Seed.

PI 550474 to 550483-continued

- PI 550479 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** BS14. **pedigree:** Population developed by recombining 6 inbred selections related to B14. **other id:** GP-31. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-MAIZE. **remarks:** Plant and ear types and maturity similar to B14. Yield better than B14. Resistant to corn leaf rust (*Puccinia sorghi*). Annual. Breeding Material. Seed.
- PI 550480 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** BS15. **pedigree:** B14/2*BS12(HI)C5. **other id:** GP-32. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-MAIZE. **remarks:** Population developed with good combining ability. Annual. Breeding Material. Seed.
- PI 550481 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** BSSS(R)C6. **pedigree:** Population developed from Iowa Stiff Stalk Synthetic (BSSS) by 6 cycles of reciprocal recurrent selection, with BSCB1(R) as the tester. **other id:** GP-33. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-MAIZE. **remarks:** Selection was primarily for yield. Some selection for resistance to lodging, first brood corn borer leaf feeding, and *Diplodia zae*. Annual. Breeding Material. Seed.
- PI 550482 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** BSCB1(R)C6. **pedigree:** Population developed from Iowa Corn Borer Synthetic No. 1 (CSCB1) by 6 cycles of reciprocal recurrent selection with BSSS(R) as the tester. **other id:** GP-34. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-MAIZE. Annual. Breeding Material. Seed.
- PI 550483 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010. **cultivar:** B76. **pedigree:** (CI31A/B37)F2//B37. **other id:** PL-38. **source:** Crop Sci. 14(5):778 1974. **group:** CSR-MAIZE. **remarks:** Plant and ear types similar to B37. Yield and pollen production better than B37. Maturity is AES800. Intermediate resistance to first brood of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550484 to 550486. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Agricultural Research Service -- USDA, Iowa State University, Ames, Iowa, United States. Received 1974.

PI 550484 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** PR-Mo2. **pedigree:** Developed from Nigeria Composite B (NCB) by 6 cycles of mass selection for general adaptation and reduced plant height. NCB developed in Nigeria by 4 cycles of random mating in a population of Caribbean, Central America & Mexico germplasm. **other id:** GP-63. **source:** Crop Sci. 16(3):446 1976. **group:** CSR-MAIZE. **remarks:** Population was originally formed in Nigeria by the USAID Major Cereals in Africa Project. Resistant to *Ustilago maydis*, *Puccinia polysora*, and *Helminthosporium maydis*. Annual. Breeding Material. Seed.

PI 550485 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State, Mississippi. **cultivar:** PR-Mpl. **pedigree:** Developed from Nigeria Composite A (NCA) by 6 cycles of mass selection for general adaptation and reduced ear height. NCA developed in Nigeria by 4 cycles of random mating of Mexico, Caribbean, Colombia, and U.S. cultivars. **other id:** GP-70. **source:** Crop Sci. 16(5):746 1976. **group:** CSR-MAIZE. **remarks:** Population originally formed by the USAID Major Cereals in Africa Project. Broad genetic base. Resistance to *Puccinia polysora* and *Helminthosporium maydis*. Annual. Breeding Material. Seed.

PI 550486 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** PR-Mp4. **pedigree:** Developed from Nigeria Composite A-Rb (NCA-Rb) by 2 cycles of mass selection for adaptation. **other id:** GP-71. **source:** Crop Sci. 16(5):746 1976. **group:** CSR-MAIZE. **remarks:** Resistant to *Puccinia polysora* and *Helminthosporium maydis*. Annual. Breeding Material. Seed.

PI 550487 to 550491. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cross, H. Z., North Dakota Agr. Exp. Sta., North Dakota State University, 329 Walster Hall, Fargo, North Dakota, United States. Received 1980.

PI 550487 to 550491-continued

- PI 550487 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSA. **pedigree:** Synthetic developed by intercrossing 8 elite lines (ND478, ND474, W153R, SD10, ND376, NDB8, A90, MS1334) of about AES300 maturity. **other id:** GP-84. **source:** Crop Sci. 20(3):418 1980. **group:** CSR-MAIZE. **remarks:** High general combining ability for yield, kernel weight, and kernels per ear. Endosperm yellow. Plant tall. Ear placement high. Maturity is AES300. Annual. Breeding Material. Seed.
- PI 550488 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** NDSB. **pedigree:** Synthetic developed from an intercross of 6 inbreds (ND363, MS142, ND405, ND33, CO303, CV3) and 1 open pollinated variety (Zapalote Chico). **other id:** GP-85. **source:** Crop Sci. 20(3):418 1980. **group:** CSR-MAIZE. **remarks:** Endosperm yellow. Developed concurrently with NDSA. High general combining ability for yield and ears per plant. Plants shorter than NDSA and lower ear placement. Maturity is AES200. Annual. Breeding Material. Seed.
- PI 550489 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND245. **pedigree:** CK98/ND12Rf. **other id:** PL-53. **source:** Crop Sci. 20(3):420 1980. **group:** CSR-MAIZE. **remarks:** Yellow dent inbred. Plant medium tall. Ears long, slender, 10-14 rows with shallow kernels. Leaves narrow, stiff. Good combining ability for yield, test weight, low ear moisture, low root and stalk lodging. Maturity is AES200. Intermediate resistance to Diplodia stalk rot, first brood European corn borer, maize dwarf mosaic virus, maize chlorotic dwarf virus, and downy mildew. Resistant to wheat. Annual. Breeding Material. Seed.
- PI 550490 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND246. **pedigree:** W755/W771. **other id:** PL-54. **source:** Crop Sci. 20(5):678 1980. **group:** CSR-MAIZE. **remarks:** Good combining ability for yield, test weight, ear moisture, and root and stalk lodging resistance. Maturity is AES200. Intermediate resistance to Diplodia stalk rot, Anthracnose leaf blight, Anthracnose stalk rot, northern corn leaf spot, and first brood European corn borer. Resistant to wheat streak mosaic virus and bacterial leaf blight. Annual. Breeding Material. Seed.

PI 550487 to 550491-continued

PI 550491 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND301. **pedigree:** Selection from a outcross of W673. **other id:** PL-55. **source:** Crop Sci. 20(5):678 1980. **group:** CSR-MAIZE. **remarks:** High general combining ability for yield and test weight. Maturity is early AES300. Intermediate resistance to Diplodia stalk rot, eyespot, Anthracnose leaf blight and stalk rot, and first brood European corn borer. Resistant to southern corn leaf blight and northern corn leaf spot. Annual. Breeding Material. Seed.

PI 550492 to 550493. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Sparks, A. N., Georgia Agr. Exp. Sta., Southern Grain Insects Research Lab., Coastal Plain Exp. Sta., Tifton, Georgia, United States. Received 1980.

PI 550492 **origin:** United States. **origin institute:** Georgia Agr. Exp. Sta., Southern Grain Insects Research Lab., Tifton, Georgia 31794. **cultivar:** GTS1. **pedigree:** Yellow counterpart of the white line 471-U6. Developed by a series of backcrosses and selfs while selecting for yellow endosperm and recurrent parent (sweet corn inbred 342) phenotype. **other id:** PL-51. **source:** Crop Sci. 20(3):420 1980. **group:** CSR-MAIZE. **remarks:** Sweet corn quality high. Planting date to pollen shed is 64 days. Resistant to corn earworm (*Heliothis zea*). Annual. Breeding Material. Seed.

PI 550493 **origin:** United States. **origin institute:** Georgia Agr. Exp. Sta., Southern Grain Insects Research Lab., Tifton, Georgia 31794. **cultivar:** GTS2. **pedigree:** Yellow counterpart of the white line 81-1. Developed by a series of backcrosses and selfs while selecting for yellow endosperm and recurrent parent (sweet corn inbred 371) phenotype. **other id:** PL-52. **source:** Crop Sci. 20(3):420 1980. **group:** CSR-MAIZE. **remarks:** Sweet corn quality high. Planting date to pollen shed is 71 days. Resistant to corn earworm (*Heliothis zea*). Annual. Breeding Material. Seed.

PI 550494. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Williams, W. P., Agricultural Research Service -- USDA, Mississippi State, P.O. Box 5248, State College, Mississippi, United States. Received 1980.

PI 550494-continued

origin: United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State, State College, Mississippi 39762. **cultivar:** Mp703. **pedigree:** Cross between S2 from Antigua Gpo. 1 and S8 from Antigua Gpo. 2 with 8 generations of selfing. **other id:** GP-83. **source:** Crop Sci. 20(3):418 1980. **group:** CSR-MAIZE. **remarks:** Plant medium-tall, flowers 10-14 days later than Mp496. Good pollen production. Ear shoot development poor under drought. Leaf-feeding resistance to southwestern corn borer (*Diatraea grandiosella*), fall armyworm (*Spodoptera frugiperda*) and southern corn rust (*Puccinia polysora*). Annual. Breeding Material. Seed.

PI 550495. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Loesch, Jr., P. J., Iowa State University, 101E Agronomy, Ames, Iowa, United States. Received 1980.

origin: United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011. **cultivar:** BSBB02(S)C2. **pedigree:** Improved opaque-2 population developed from Iowa Synthetic BB (BSBB). **other id:** GP-86. **source:** Crop Sci. 20(4):554 1980. **group:** CSR-MAIZE. **remarks:** Maturity is AES800. Improved protein quality. Annual. Breeding Material. Seed.

PI 550496 to 550497. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Warren, H. L., Agricultural Research Service -- USDA, Botany & Plant Pathology Dept, Purdue University, W. Lafayette, Indiana, United States. Received 1980.

PI 550496 **origin:** United States. **origin institute:** Indiana Agr. Exp. Sta., Purdue University, W. Lafayette, Indiana 47907. **cultivar:** H102. **pedigree:** Mb 19-3(selection of PI 209135)/C123. **other id:** GP-88. **source:** Crop Sci. 21(3):477 1981. **group:** CSR-MAIZE. **remarks:** Dent corn. Kernels yellow. Leaves upright. Stalk lodging, kernel weight, and ear size improved relative to parents. Maturity is AES700. Intermediate resistance to southern leaf blight and Stewart's wilt. Resistant to northern leaf blight races 1 and 2, anthracnose leaf blight and sorghum downy mildew. Annual. Breeding Material. Seed.

PI 550496 to 550497-continued

PI 550497 **origin:** United States. **origin institute:** Indiana Agr. Exp Sta., Iowa State University, Ames, Iowa 50011. **cultivar:** H103. **pedigree:** Mb 18-10(selection of PI 209135)/A545. **other id:** GP-89. **source:** Crop Sci. 21(3):477 1981. **group:** CSR-MAIZE. **remarks:** Dent corn. Kernels yellow. Stalk lodging, kernel weight, and ear size improved relative to parents. Maturity is AES700. Intermediate resistance to sorghum downy mildew, southern leaf blight and Stewart's wilt. Resistant to *Helminthosporium turcicum* races 1 and 2 and *Colletotrichum graminicola* leaf blight and stalk rot. Annual. Breeding Material. Seed.

PI 550498 to 550499. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Scott, G. E., Mississippi State University, Agronomy Department, Box 5248, State College, Mississippi, USA. Received 1980.

PI 550498 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, State College, Mississippi 39762. **cultivar:** MpSWCB-4. **pedigree:** Developed from 2 cycles of recurrent selection for leaf feeding resistance in populations of Antigua Grupo 1, Antigua Grupo 2, Guadalupe Grupo 1A and Republica Dominicana Grupo 1. **other id:** GP-87. **source:** Crop Sci. 21(1):148 1981. **group:** CSR-MAIZE. **remarks:** Kernel colors range from yellow to orange. Root and stalk strength poor. Maturity is AES1200. Resistant to southwestern corn borer (*Diatraea grandiosella*), fall armyworm (*Spodoptera frugiperda*) and southern corn rust (*Puccinia polysora*). Annual. Breeding Material. Seed.

PI 550499 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, State College, Mississippi 39762. **cultivar:** MP496. **pedigree:** Selection from a group of S4's in Antigua Gpo. 2 population. **other id:** PL-56. **source:** Crop Sci. 21(2):353 1981. **group:** CSR-MAIZE. **remarks:** Kernels orange. Leaves often speckled. Grain quality excellent. Root and stalk strength poor. Maturity is AES100. Good resistance to fall armyworm, first brood European corn borer, sorghum downy mildew and maize chlorotic dwarf. Moderate resistance to maize dwarf mosaic and southern corn rust. Resistant to southwestern corn borer. Annual. Breeding Material. Seed.

PI 550500 to 550502. Zea mays L. subsp. mays POACEAE Corn

Donated by: Alexander, D. E., University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1981.

PI 550500 **origin:** United States. **origin institute:** University of Illinois, Department of Agronomy, Urbana, Illinois 61801. **cultivar:** Photoperiod Insensitive Composite I. **pedigree:** Segregating populations of tropical (32%), South African (44%) and U.S (24%) lines were selected for photoperiod insensitivity. **other id:** GP-90. **source:** Crop Sci. 22(1):158 1982. **group:** CSR-MAIZE. **remarks:** Photoperiod sensitive strains included: 11 Mex 44, Eto Blanco, Teosinte Pool, Sintetico Cristalino, Blanco Comun, M162W, M136Y, M848W, L189Y. Photoperiod insensitive strains included: Long Ear Synthetic, C103, B756T, Ms57, L141Y, Oh45 Ht, B1138T, M60Y, B616T, F289WT, M83Y, F2834T, WF9R, Mol2. Flowered about the same as Stiff Stalk Synthetic (AES800). Annual. Breeding Material. Seed.

PI 550501 **origin:** United States. **origin institute:** University of Illinois, Department of Agronomy, Urbana, Illinois 61801. **cultivar:** Photoperiod Insensitive Composite II. **pedigree:** 13 tropical populations with photoperiod insensitivity were bulked and random mated for 4 generations. **other id:** GP-91. **source:** Crop Sci. 22(1):158 1982. **group:** CSR-MAIZE. **remarks:** Synthetic 13 lines include: Flint Composite, Narino 330/Peru 330, Cuba 11J, Cuba Gpo. 2, (Cuba 40, Hawaii 5, SLP 164), Antigua Gpo. 2, Perola Piracicaba, Compuesto Flint, Compuesto Cateto, Compuesto Colombia, PMS 264 Sta. Roza I.V. 68, Perla/Americano Sta. Tereza 1 V.68, Teosinte pool. Flowered 7-10 days later than Stiff Stalk Synthetic. Annual. Breeding Material. Seed.

PI 550502 **origin:** United States. **origin institute:** University of Illinois, Department of Agronomy, Urbana, Illinois 61801. **cultivar:** Photoperiod Insensitive Composite III. **pedigree:** Photoperiod insensitive tropical populations (Flint Composite, Perola Piraciacaba, Narino 330/Peru 330, Cuba 11J, Cuba 40, Hawaii 5, SLP 164, Comporto Flint) crossed with Composite I. **other id:** GP-92. **source:** Crop Sci. 22(1):158 1982. **group:** CSR-MAIZE. **remarks:** Flowered at least 2 weeks later than Stiff Stalk Synthetic. Annual. Breeding Material. Seed.

PI 550503 to 550504. Zea mays L. subsp. mays POACEAE Corn

Donated by: Cross, H. Z., North Dakota State University, Department of Agronomy, Fargo, North Dakota, United States. Received 1981.

PI 550503 to 550504-continued

PI 550503 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota University, Fargo, North Dakota 58105. **cultivar:** ND247. **pedigree:** W755/W771. **other id:** PL-57. **source:** Crop Sci. 21(6):994 1981. **group:** CSR-MAIZE. **remarks:** Plants moderately short. Leaves long and narrow. Ears are slender with 12-14 rows. Good general combining ability for ear moisture, test weight and stalk lodging resistance. Maturity is AES200. Moderately resistant to first brood European corn borer and northern corn leaf spot. Sister line to ND246. Annual. Breeding Material. Seed.

PI 550504 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., Fargo, North Dakota 58105. **cultivar:** ND248. **pedigree:** Selection from synthetic AS-D. **other id:** PL-58. **source:** Crop Sci. 21(6):994 1981. **group:** CSR-MAIZE. **remarks:** Plants short. Ears short and thick with 14-16 rows. High general combining ability for yield. Maturity is late AES200. Moderately resistant to northern corn leaf spot and downy mildew. Annual. Breeding Material. Seed.

PI 550505 to 550506. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Gardner, C. O., University of Nebraska, Department of Agronomy, Urbana, Illinois, United States. Received 1981.

PI 550505 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583. **cultivar:** NS(FS)LFW-8. **pedigree:** Developed from Stiff Stalk Synthetic. **other id:** GP-95. **source:** Crop Sci. 22(2):451 1982. **group:** CSR-MAIZE. **remarks:** Maturity is AES800. Resistant to Leaf freckles and wilt bacterial disease (*Corynebacterium nebraskense*). Annual. Breeding Material. Seed.

PI 550506 **origin:** United States. **origin institute:** Nebraska Agr. Exp. Sta., Department of Agronomy, Urbana, Illinois 61801. **cultivar:** NB(FS)LFW-8. **pedigree:** Developed from Nebraska B Synthetic. **other id:** GP-96. **source:** Crop Sci. 22(2):451 1982. **group:** CSR-MAIZE. **remarks:** Maturity is AES800. Resistant to Leaf freckles and wilt bacterial disease (*Corynebacterium nebraskense*). Annual. Breeding Material. Seed.

PI 550507. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Berquist, R. R., Pfister Hybrid Corn Company, P.O. Box 187, El Paso, Illinois, United States. Received 1981.

PI 550507-continued

origin: United States. **origin institute:** Pfister Hybrid Corn Company, El Paso, Illinois 61738. **cultivar:** LP Oh43 RP1TD. **pedigree:** Zea mays/Tripsacum dactyloides. **other id:** GP-93. **source:** Crop Sci. 22(2):451 1982. **group:** CSR-MAIZE. **remarks:** Dent inbred. Endosperm yellow. Maturity is AES600. Resistant to common rust (Puccinia sorghi). Annual. Breeding Material. Seed.

PI 550508 to 550524. Zea mays L. subsp. mays POACEAE Corn

Donated by: West, D. R., University of Tennessee, Plant and Soil Science Department, Knoxville, Tennessee, United States. Received 1981.

PI 550508 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** TELE-13. **pedigree:** Developed from PP32-S5, (A13.W18)-S6, (A413.T204)Sel, (C103.Ky36-11)-S6, Va3a, Va17b, Va22, Va25, Va9-532, T458, T113(M14.Oh51), and (T220.W22R)-S2. Selected for low-ear placement and early maturity. **other id:** GP-100. **source:** Crop Sci. 22(3):694 1982. **group:** CSR-MAIZE. **remarks:** Kernels both white and yellow. Lodging resistance. Maturity AES800, 60-62 days from planting to flowering. Annual. Breeding Material. Seed.

PI 550509 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T61Y. **pedigree:** Developed from inbred T61 as source for yellow kernels. **other id:** GP-101. **source:** Crop Sci. 22(3):694 1982. **group:** CSR-MAIZE. **remarks:** High yield, prolificacy, and stalk quality. Plant tall with high ear placement. Ears medium-size with long husk cover. Grain quality excellent. Maturity AES1000. Annual. Breeding Material. Seed.

PI 550510 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** TVRDW-C5. **pedigree:** 16 inbreds resistant to corn virus complex were crossed in pairs and resulting single crosses were crossed in all combinations. **other id:** GP-102. **source:** Crop Sci. 22(3):694 1982. **group:** CSR-MAIZE. **remarks:** Root and stalk quality. Grain quality good. Kernels white and yellow. Maturity is AES1000. Resistant to corn virus complex. Annual. Breeding Material. Seed.

PI 550508 to 550524-continued

- PI 550511 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** TSR-C4. **pedigree:** Synthetic developed from KY39, 33-16, R7, 893.H(W), E198, T109(M14.051), CI.28B, T432, A242, A302, Mo2778B, and 0-670. **other id:** GP-103. **source:** Crop Sci. 22(3):694 1982. **group:** CSR-MAIZE. **remarks:** Root and stalk quality fair. Grain quality good. Kernels white and yellow. Maturity AES1000. Resistant to common or boil smut (*Ustilago zeae*). Annual. Breeding Material. Seed.
- PI 550512 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** TJeMY-14. **pedigree:** Developed from Jellicorse after 14 generations of mass selection for yield. **other id:** GP-104. **source:** Crop Sci. 22(3):694 1982. **group:** CSR-MAIZE. **remarks:** More, smaller ears per plant, more nubbin ears, and higher ear placement than Jellicorse. Maturity is AES1000. Annual. Breeding Material. Seed.
- PI 550513 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** TJeMP-5. **pedigree:** Developed from Jellicorse after 9 generations of mass selection for yield and 5 generations for ear prolificacy. **other id:** GP-105. **source:** Crop Sci. 22(3):694 1982. **group:** CSR-MAIZE. **remarks:** Grain yield, ear height, and ear prolificacy greater than Jellicorse. Maturity is AES1000. Annual. Breeding Material. Seed.
- PI 550514 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T61. **pedigree:** Developed from Neal Paymaster. **other id:** GP-106. **source:** Crop Sci. 22(3):696 1982. **group:** CSR-MAIZE. **remarks:** Plant and ear height medium. Stalk fair. Root system poor. Ears medium-size, tapered. Kernels white on red cob. Pollen production good. Highly prolific and yield good. Maturity is AES1000. Good resistance to virus disease complex (maize dwarf mosaic virus and maize chlorotic dwarf virus). Annual. Breeding Material. Seed.

PI 550508 to 550524-continued

- PI 550515 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T101. **pedigree:** E/L//Florida Laguna 916. **other id:** GP-107. **source:** Crop Sci. 22(3):696 1982. **group:** CSR-MAIZE. **remarks:** Inbred tall and vigorous. Ear placement medium-high on slender good stalk. Pollen production good. Ears short with yellow dent kernels on white cob. Maturity is AES1000. No significant resistance to viruses, but fairly resistant to most other diseases. Some resistance to corn earworm. Annual. Breeding Material. Seed.
- PI 550516 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T111. **pedigree:** Developed from Jellicorse. **other id:** GP-108. **source:** Crop Sci. 22(3):696 1982. **group:** CSR-MAIZE. **remarks:** Pollen production good. Plant medium-short. Ear placement low. Stalk sturdy. Leaves broad, dark green. Ear medium length, semi-prolific. Kernels white on white cob. Pollen production good. Maturity is AES1000. Moderate resistance to virus disease complex. Annual. Breeding Material. Seed.
- PI 550517 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T115. **pedigree:** Developed from Jellicorse. **other id:** GP-109. **source:** Crop Sci. 22(3):696 1982. **group:** CSR-MAIZE. **remarks:** Pollen production poor. Yield high. Plant medium-tall. Ear placement low on slender stalk. 2-3 ears per plant. Husk length medium. Grain quality excellent. Root strength good. Flowers earlier than T111. Stalk lodging susceptible. Good resistance to virus disease complex. Natural restorer to T- and S-type cytoplasm. Maturity is AES900. Annual. Breeding Material. Seed.
- PI 550518 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T8. **pedigree:** Selfing and selection in Jarvis Golden Prolific since 1930. **other id:** GP-110. **source:** Crop Sci. 22(3):696 1982. **group:** CSR-MAIZE. **remarks:** Pollen production good. Stalk and ear placement medium high. Grain dark orange, flinty, excellent quality. Slender white cob. Husk cover short. Root strength good. Maturity is AES800. Good resistance to corn earworm (*Heliothis zea*) and virus disease complex. Annual. Breeding Material. Seed.

PI 550508 to 550524-continued

- PI 550519 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T220. **pedigree:** T61/Hills Yellow Dent and backcrossed once to T61. **other id:** GP-112. **source:** Crop Sci. 22(3):696 1982. **group:** CSR-MAIZE. **remarks:** Stalk short, sturdy. Ear placement high. Leaves broad and dark-green. Ears medium-size with medium short husk. Kernels medium size, flat, yellow, dimple dent. Cob red. Maturity is AES900. Good combining ability. Fair resistance to virus disease complex. Annual. Breeding Material. Seed.
- PI 550520 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T224. **pedigree:** T115//I205/L289 and backcrossed once to T115. **other id:** GP-113. **source:** Crop Sci. 22(3):696 1982. **group:** CSR-MAIZE. **remarks:** Plant medium tall. Ear placement medium-low. Root system fair. Susceptible to stalk lodging. 2-3 short, slender ears per stalk. Kernels large, flat, slightly flinty, dark yellow on white cob. Good combining ability. Similar to T115. Maturity is AES800. Natural restorer to T- and S-type cytoplasm. Fair to good resistance to virus disease complex. Annual. Breeding Material. Seed.
- PI 550521 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T226. **pedigree:** Cross between a selection from the Huffman variety and RB893 with one backcross to RB893. **other id:** GP-114. **source:** Crop Sci. 22(3):696 1982. **group:** CSR-MAIZE. **remarks:** Plant tall, vigorous. Ear placement low. Stalk qualities good. Root system fair. Large single ear per plant with medium husk cover. Kernels medium flat, dark yellow on red cob. Maturity is AES900. Annual. Breeding Material. Seed.
- PI 550522 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T232. **pedigree:** Selection from a cross between Jellicorse and Teko Yellow. **other id:** GP-115. **source:** Crop Sci. 22(3):696 1982. **group:** CSR-MAIZE. **remarks:** Plant tall, vigorous. Leaves upright. Ear placement fairly high. Pollen production good. Grain yield fair. Tendency to root lodge. 2-3 medium ears per stalk. Kernels medium-large dark yellow on red cob. Grain hard, dimple-dent. High general combining ability. Maturity is AES1000. Resistant to corn earworm (*Heliothis zea*), kernel and cob rots, and sorghum downy mildew (*Pernosclerospora sorghi*), and virus. Annual. Breeding Material. Seed.

PI 550508 to 550524-continued

PI 550523 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** TSGP. **pedigree:** Population composed of 29 varieties or synthetics from 6 states (Arkansas, Louisiana, Missouri, South Carolina, Tennessee, Virginia). **other id:** GP-98. **source:** Crop Sci. 22(3):694 1982. **group:** CSR-MAIZE. **remarks:** Maturity is AES1000. Population contains genes for resistance to virus disease complex, root and stalk quality, prolificacy, and good grain quality. Kernels white and yellow. Annual. Breeding Material. Seed.

PI 550524 **origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** TLLE-13. **pedigree:** Composed of Ab16, Ab36, MP484, (KY36-24.T13)-S4, (Je 26)-S4, (KY215.T101)-S4, (Jel.PP)-2, and (Je52.Robyn)-S3 inbred and selections that were crossed pairs and resulting single crosses crossed in all combinations. **other id:** GP-99. **source:** Crop Sci. 22(3):694 1982. **group:** CSR-MAIZE. **remarks:** Selected for low ear placement. Lodging resistance good. Kernels white and yellow. Maturity is AES1000. Annual. Breeding Material. Seed.

PI 550525. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Russell, W. A., Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1982.

origin: United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011. **cultivar:** BS9(CB)C4. **pedigree:** Developed by recombining 10 inbred lines (B49, B50, B52, B54, B55, B57, B68, CI131A, Mo17, SD10) with 4 cycles of recurrent selection. **other id:** GP-97. **source:** Crop Sci. 22(3):694 1982. **group:** CSR-MAIZE. **remarks:** Maturity is early AES800. Good resistance to the first and second brood of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550526 to 550527. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Warren, H. L., Agricultural Research Service -- USDA, Purdue University, Botany and Plant Pathology Department, W. Lafayette, Indiana, United States. Received 1982.

PI 550526 to 550527-continued

PI 550526 **origin:** United States. **origin institute:** Indiana Agr. Exp. Sta., Purdue University, W. Lafayette, Indiana 47907. **cultivar:** H110. **pedigree:** Oh514/PI 209135, selection Mb.27-12. **other id:** GP-121. **source:** Crop Sci. 22(6):1270 1982. **group:** CSR-MAIZE. **remarks:** Plant similar to Oh514. Pollen production good. Leaves larger and more upright than Oh514. Ears larger than Oh514. Yellow-kernel dent. Maturity is AES600. Resistant to maize dwarf mosaic virus, maize chlorotic dwarf virus, race 1 and 2 northern leaf blight (*Exerohilum turcicum*), southern leaf blight (*Bipolaris maydis*), leaf blight (*Colletotrichum graminicola*). Intermediate resistance to Stewarts wilt. Annual. Breeding Material. Seed.

PI 550527 **origin:** United States. **origin institute:** Indiana Agr. Exp. Sta., Purdue University, W. Lafayette, Indiana 47907. **cultivar:** H111. **pedigree:** B37/PI 209135, selection Mb.2. **other id:** GP-122. **source:** Crop Sci. 22(6):1270 1982. **group:** CSR-MAIZE. **remarks:** Plant type similar to B37. Leaves more upright, ears larger, and about 15 cm taller than B37. Yellow-kernel dent with 12 to 14 rows. Maturity is AES600. Resistant to northern leaf blight (*Exerohilum turcicum*), races 1 and 2 leaf blight and stalk rot (*Colletotrichum graminicola*), Stewarts wilt (*Erwinia stewartii*), southern leaf blight (*Bipolaris maydis*) and stalk rot (*Diplodia maydis*). Annual. Breeding Material. Seed.

PI 550528 to 550532. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cross, H. Z., North Dakota Agr. Exp. Sta., North Dakota State University, 329 Walster Hall, Fargo, North Dakota, United States. Received 1982.

PI 550528 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSC. **pedigree:** Intercrossed 11 elite lines (CO303, ND474, ND478, NDB8, ND480, ND481, A556, CG1, CG5, W153R, MS93) and randomly mated for 4 generations. **other id:** GP-117. **source:** Crop Sci. 22(6):1270 1982. **group:** CSR-MAIZE. **remarks:** Plants medium tall. Ear placement slightly below mid-plant. Ears thick, medium long with 18-20 kernel rows. Endosperm yellow. Yield good. Resistance to lodging. Maturity is AES300. Annual. Breeding Material. Seed.

- PI 550529 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSD. **pedigree:** Intercrossed 16 elite inbreds (SDP2, SDP232, SDP236M, SDP254, ND363, ND364, A90, A654, A556, ND376, MS141, W153R, A554, SD5, ND474, ND203) and intermated for 3 generations. **other id:** GP-118. **source:** Crop Sci. 22(6):1270 1982. **group:** CSR-MAIZE. **remarks:** Plants slightly shorter than NDSC. Ears smaller, fewer kernel rows and lower ear moisture at harvest than NDSC. Higher yields and test weights than NDSC. Resistant to root and stalk lodging. Maturity is AES300. Annual. Breeding Material. Seed.
- PI 550530 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND249. **pedigree:** Selected from Rumanian Syn. D by self-pollination and selection for agronomic type for 7 generations. **other id:** PL-60. **source:** Crop Sci. 22(6):1279 1982. **group:** CSR-MAIZE. **remarks:** Yellow dent inbred. Plants medium short. Leaves short and wide. Tassels large. Ears long, thick with 18-22 rows of deep kernels. Low ear moisture at harvest. Maturity is AES200. Intermediate resistance to first brood European corn borer (*Ostrinia nubilalis*) and northern corn rootworm (*Diabrotica longicornis*). Resistant to northern corn leaf spot (*Helminthosporium carbonum*), eyespot (*Kabatiella zeae*). Annual. Breeding Material. Seed.
- PI 550531 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND250. **pedigree:** W12/W14, self-pollinated for 9 generations and selected for plant and ear traits. **other id:** PL-61. **source:** Crop Sci. 22(6):1279 1982. **group:** CSR-MAIZE. **remarks:** Plants medium tall, prolific. Tassels large. Leaves long, medium-wide. Ears have 14-16 rows of deep yellow dent kernels. High general combining ability for yield and test weight. Maturity is AES200. Not tested for disease or insect reaction. Annual. Breeding Material. Seed.

PI 550528 to 550532-continued

PI 550532 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND251. **pedigree:** Selected from Rumanian Syn. D, with 7 generations of self-pollination and selection for plant and ear traits. **other id:** PL-62. **source:** Crop Sci. 22(6):1279 1982. **group:** CSR-MAIZE. **remarks:** Plants short. Leaves short, wide. Tassels medium. Ears long with 16-18 rows of kernels. Ear placement slightly below midplant. Yellow dent inbred. Intermediate resistance to maize chlorotic dwarf virus, northern corn leaf spot, eyespot, northern corn rootworm, corn lethal necrosis, and anthracnose leaf blight. Resistant to maize dwarf mosaic virus, first brood European corn borer, and anthracnose. Annual. Breeding Material. Seed.

PI 550533. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Williams, W. P., Agricultural Research Service -- USDA, Mississippi State, P.O. Box 5248, State College, Mississippi, United States. Received 1982.

origin: United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State, State College, Mississippi 39762. **cultivar:** Mp704. **pedigree:** Cross between Mp496 and S2 from Republica Dominica Gpo. 1. Selfed for 8 generations. **other id:** GP-116. **source:** Crop Sci. 22(6):1269 1982. **group:** CSR-MAIZE. **remarks:** Plant medium tall. Maturity is AES1200. Resistant to south-western corn borer (*Diatraea grandiosella*), fall armyworm (*Spodoptera frugiperda*), and southern corn rust (*Puccinia polysora*). Annual. Breeding Material. Seed.

PI 550534 to 550535. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Scott, G. E., Mississippi State University, Department of Agronomy, P.O. Box 5248, State College, Mississippi, United States. Received 1982.

PI 550534 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State, State College, Mississippi 39762. **cultivar:** MP701. **pedigree:** Selection from a bulk of 3 closely related S3's developed from a cross between an S2 of Antigua Gpo. 1 and an S6 of Antigua Gpo. 2. **other id:** GP-119. **source:** Crop Sci. 22(6):1270 1982. **group:** CSR-MAIZE. **remarks:** Poor root and stalk strength. Maturity is AES1200. Resistant to southwestern corn borer (*Diatraea grandiosella*), fall armyworm (*Spodoptera frugiperda*), and southern corn rust (*Puccinia polysora*). Annual. Breeding Material. Seed.

PI 550534 to 550535-continued

PI 550535 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State, State College, Mississippi 39762. **cultivar:** MP702. **pedigree:** Selection from a bulk of 2 closely related S3's from a cross between an S6 of Antigua Gpo. 2 and an S1 of Republica Dominica Gpo. 1. **other id:** GP-120. **source:** Crop Sci. 22(6):1270 1982. **group:** CSR-MAIZE. **remarks:** Poor root and stalk strength. Maturity is AES1200. Resistant to southwestern corn borer (*Diaterea grandiosella*), fall armyworm (*Spodoptera frugiperda*), and southern corn rust (*Puccinia polysora*). Annual. Breeding Material. Seed.

PI 550536 to 550537. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Russell, W. A., Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1983.

PI 550536 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011. **cultivar:** BSAA(SRCB)C4. **pedigree:** 4 cycles of recurrent selection in BSAA. **other id:** GP-123. **source:** Crop Sci. 23(4):808 1983. **group:** CSR-MAIZE. **remarks:** Maturity is AES800. Resistant to Diplodia stalk rot and first brood of the European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550537 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011. **cultivar:** BSBB(SRCB)C4. **pedigree:** 4 cycles of recurrent selection in BSBB. **other id:** GP-124. **source:** Crop Sci. 23(4):808 1983. **group:** CSR-MAIZE. **remarks:** Maturity is AES800. Resistant to Diplodia stalk rot and first brood of the European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550538 to 550542. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cross, H. Z., North Dakota Agr. Exp. Sta., North Dakota State University, 329 Walster Hall, Fargo, North Dakota, United States. Received 1983.

PI 550538 to 550542-continued

PI 550538 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSAB. **pedigree:** Synthetic developed by 1 cycle of full-sib family selection among 100 full-sib families between NDSA and NDSB. Mass selection of 20 families for 3 cycles. **other id:** GP-125. **source:** Crop Sci. 23(6):1227 1983. **group:** CSR-MAIZE. **remarks:** Yellow dent endosperm. Plants tall. Ear placement slightly above midplant. Similar in maturity, shelling percentage, and test weight to NDSC. Higher yielding than NDSC, but more susceptible to root lodging. Maturity is AES300. Annual. Breeding Material. Seed.

PI 550539 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSF. **pedigree:** Intercrossed about 65 inbreds and resulting population intermated for 2 generations. **other id:** GP-126. **source:** Crop Sci. 23(6):1227 1983. **group:** CSR-MAIZE. **remarks:** Plants moderately short. Ear placement slightly below midplant. Higher shelling percentage and test weight than NDSAB. Similar in yield and lodging resistance to NDSC. Maturity is AES100-200. Annual. Breeding Material. Seed.

PI 550540 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND252. **pedigree:** W775/W771. **other id:** PL-64. **source:** Crop Sci. 23(6):1228 1983. **group:** CSR-MAIZE. **remarks:** Plants medium short. Ear placement slightly above midplant. Leaves short, wide. Tassels medium. Ears long, slender with 10-14 rows. Maturity is AES200. Moderate resistance to head smut (*Sphacelotheca reiliana*), intermediate resistance to common smut (*Ustilago maydis*) and resistant to common rust (*Puccinia sorghi*). Annual. Breeding Material. Seed.

PI 550541 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND253. **pedigree:** W59/W116. **other id:** PL-65. **source:** Crop Sci. 23(6):1228 1983. **group:** CSR-MAIZE. **remarks:** Plants medium tall. Ear placement slightly above midplant. Tassels large. Leaves long, narrow. Ears with 14-18 rows of yellow dent kernels. High general combining ability for yield and root and stalk lodging. Resistant to wheat streak mosaic virus and first brood European corn borer (*Ostrinia nubilalis*). Intermediate resistance to Diplodia stalk rot, maize dwarf mosaic virus, corn lethal necrosis, and southern. Annual. Breeding Material. Seed.

PI 550538 to 550542-continued

PI 550542 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND254. **pedigree:** Selected from Rumanian Syn. D with 7 generations of self pollination and selection for plant and ear traits. **other id:** PL-66. **source:** Crop Sci. 23(6):1228 1983. **group:** CSR-MAIZE. **remarks:** Plants very short. Ear placement slightly below midplant. Leaves short wide. Tassels medium. Ears medium-long with 16 to 20 rows of yellow dent kernels. Maturity is AES200. Resistant to wheat streak mosaic virus, moderately resistant to first brood European corn borer (*Ostrinia nubilalis*), and intermediate resistance for maize dwarf mosaic virus, corn lethal necrosis, and eyespot (*Kabatialla zeal*). Annual. Breeding Material. Seed.

PI 550543. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Kahler, A., Agricultural Research Service -- USDA, Northern Grain Insects Research Lab, RR3, Brookings, South Dakota, United States. Received 1984.

origin: United States. **origin institute:** South Dakota Agr. Exp. Sta., South Dakota State University, Brookings, South Dakota. **cultivar:** NGSDCRW1(S2)C4. **pedigree:** R802/F109B hybrid interplanted with open-pollinated SDCRW1SYN population with subsequent selection for large root size and root-pull resistance. **other id:** GP-137. **source:** Crop Sci. 25(1):202 1985. **group:** CSR-MAIZE. **remarks:** Root system good. Resistant to western corn rootworm (*Diabrotica virgifera*). Annual. Breeding Material. Seed.

PI 550544. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N. W., Agricultural Research Service -- USDA, Southern Grain Insects Research Lab., P.O. Box 748, Tifton, Georgia, United States. Received 1983.

origin: United States. **origin institute:** Southern Grain Insects Research Lab., Tifton, Georgia 31793. **cultivar:** GT-R14. **pedigree:** Developed from 4 cycles of recurrent selection in RFC (crosses of B10/B14, Manfredi, and Corn Belt Composite with over 30 Latin American selections). **other id:** GP-128. **source:** Crop Sci. 24(3):626 1984. **group:** CSR-MAIZE. **remarks:** Yellow flint and dent synthetic. Tight husks. Resistant to the corn earworm (*Heliothis zea*). Annual. Breeding Material. Seed.

PI 550545. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Jellum, M. D., Georgia Agr. Exp. Sta., Department of Agronomy, Experiment, Georgia, United States. Received 1984.

origin: United States. **origin institute:** Georgia Agr. Exp. Sta., Department of Agronomy, Experiment, Georgia 30212. **cultivar:** GE180. **pedigree:** Selected from PI 175334 (Tusa Rani from Nepal). **other id:** GP-129. **source:** Crop Sci. 24(4):829 1984. **group:** CSR-MAIZE. **remarks:** Plant averages 165 cm high. Ears about 65 cm above ground level. Tassels medium size. Leaves narrow. Silks 65-70 days after planting. Husks long. Grain white, semi-flint type on white cob. Highest stearic acid level in germ oil reported. Annual. Breeding Material. Seed.

PI 550546 to 550548. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Williams, W. P., Agricultural Research Service -- USDA, Mississippi State University, P.O. Box 5248, State College, Mississippi, United States. Received 1984.

PI 550546 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, State College, Mississippi 39762. **cultivar:** MP705. **pedigree:** Developed by selfing selections from MpSWCB-4 for 8 generations. **other id:** GP-130. **source:** Crop Sci. 24(6):1217 1984. **group:** CSR-MAIZE. **remarks:** Plant short to medium in height. Kernels white. Cobs white. Pollen production and seed yield good. Maturity is AES1100. Resistant to southwestern corn borer (*Diatraea grandiosella*) and fall armyworm (*Spodoptera frugiperda*). Intermediate resistance to southern corn rust (*Puccinia polysora*). Annual. Breeding Material. Seed.

PI 550547 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, State College, Mississippi 39762. **cultivar:** MP706. **pedigree:** Developed by selfing selections from MpSWCB-4 for 8 generations. **other id:** GP-131. **source:** Crop Sci. 24(6):1217 1984. **group:** CSR-MAIZE. **remarks:** Plants short to medium in height. Kernels yellow. Cob white. Pollen production and seed yield good. Maturity is AES1100. Resistant to southwestern corn borer (*Diatraea grandiosella*) and fall armyworm (*Spodoptera frugiperda*). Intermediate resistance to southern corn rust (*Puccinia polysora*). Annual. Breeding Material. Seed.

PI 550546 to 550548-continued

PI 550548 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, State College, Mississippi 39762. **cultivar:** MP707. **pedigree:** Developed by selfing selections from MpSWCB-4 for 8 generations. **other id:** GP-132. **source:** Crop Sci. 24(6):1217 1984. **group:** CSR-MAIZE. **remarks:** Plants short to medium in height. Kernels white. Cob white. Pollen production and seed yield good. Maturity is AES1200. Resistant to southwestern corn borer (*Diatraea grandiosella*) and fall armyworm (*Spodoptera frugiperda*). Intermediate resistance to southern corn rust (*Puccinia polysora*). Annual. Breeding Material. Seed.

PI 550549 to 550554. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cross, H. Z., North Dakota Agr. Exp. Sta., North Dakota State University, 329 Walster Hall, Fargo, North Dakota, United States. Received 1984.

PI 550549 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSG(MS)C5. **pedigree:** Synthetic developed from NDSG by 5 cycles of mass selection for yield and standability. **other id:** GP-133. **source:** Crop Sci. 24(6):1217 1984. **group:** CSR-MAIZE. **remarks:** Yellow dent endosperm. Plants tall. Ear placement slightly below midplant. Lower test weight and more root lodging than NDSC. Better yield and stalk lodging resistance than NDSC. Maturity is AES200-300. Annual. Breeding Material. Seed.

PI 550550 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSC(FS)C1. **pedigree:** Synthetic developed by 1 cycle of reciprocal full-sib selection among full-sib families between NDSC and NDSD. **other id:** GP-134. **source:** Crop Sci. 24(6):1217 1984. **group:** CSR-MAIZE. **remarks:** Yellow dent endosperm. Plants taller than NDSC. Similar in maturity, shelling percentage, test weight, and lodging resistance as NDSC. Grain yield improved 26% over NDSC. Maturity is AES200-300. Annual. Breeding Material. Seed.

PI 550549 to 550554-continued

- PI 550551 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSD(FS)C1. **pedigree:** Synthetic developed by 1 cycle of reciprocal full-sib selection among full-sib families between NDSC and NDSD. **other id:** GP-135. **source:** Crop Sci. 24(6):1217 1984. **group:** CSR-MAIZE. **remarks:** Plants similar to NDSD in plant and ear height, test weight, and lodging resistance. Improved shelling percentage, higher yields, and lower moisture at harvest than AES200-300. Annual. Breeding Material. Seed.
- PI 550552 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND304W. **pedigree:** ND408/B73//W23yy. **other id:** GP-138. **source:** Crop Sci. 25(1):202 1985. **group:** CSR-MAIZE. **remarks:** Plants medium-tall. Ear placement about midplant. Ears medium-long, thick with 18-22 rows of white dent kernels on white cob. Maturity is AES300. Annual. Breeding Material. Seed.
- PI 550553 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND101. **pedigree:** Selected from synthetic BS5 with self pollination and selection for plant and ear traits for 9 generations. **other id:** PL-67. **source:** Crop Sci. 24(6):1223 1984. **group:** CSR-MAIZE. **remarks:** Yellow dent inbred. Plants short. Ear placement below midplant. Leaves narrow, medium-long. Tassels small. Ears medium-long, narrow with 10-12 rows of shallow kernels. Resistant to first brood European corn borer (*Ostrinia nubilalis*) and eyespot (*Kabatiella zeae*). Intermediate resistance to maize dwarf mosaic virus, wheat streak mosaic virus, and southern leaf blight (*Helminthosporium maydis*). Annual. Breeding Material. Seed.
- PI 550554 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND256. **pedigree:** Selected from BS5 with 9 generations of selfing and selection. **other id:** PL-68. **source:** Crop Sci. 24(6):1223 1984. **group:** CSR-MAIZE. **remarks:** Yellow dent inbred. Plants tall. Ear placement slightly below midplant. Leaves medium-long, wide. Tassel medium. Ears large diameter and medium length having 16-20 rows of deep kernels. Maturity is AES200. Resistant to Diplodia stalk rot, eyespot (*Kabatiella zeae*), and northern leaf spot (*Helminthosporium carbonum*). Intermediate resistance to stalk crushing, northern corn rootworm (*Diabrotica*). Annual. Breeding Material. Seed.

PI 550555. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Goodman, M. M., North Carolina State University, Crop Science Department, Box 7620, Raleigh, North Carolina, United States. Received 1984.

origin: United States. **origin institute:** North Carolina Ag. Exp. Sta., North Carolina State University, Raleigh, North Carolina 27650. **cultivar:** NC250. **pedigree:** Nigeria Composite A-Rb/B37//B37. **other id:** GP-140. **source:** Crop Sci. 25(2):371 1985. **group:** CSR-MAIZE. **remarks:** Yellow dent inbred. Maturity is AES800. Resistant to race 0 of southern corn leaf blight (*Helminthosporium maydis*). Annual. Breeding Material. Seed.

PI 550556. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Russell, W. A., Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1984.

origin: United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011. **cultivar:** B88. **pedigree:** Developed from the synthetic BS6(RC)C2. **other id:** GP-139. **source:** Crop Sci. 25(2):370 1985. **group:** CSR-MAIZE. **remarks:** Yellow dent inbred. Pollen production and seed yield poor. Maturity is AES800. Resistant to first brood of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550557. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cavanah, L. E., University of Missouri, Department of Agronomy, 135 Mumford Hall, Columbia, Missouri, United States. Received 1984.

origin: United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri 65211. **cultivar:** MO-2 ECB-2. **pedigree:** Developed from PR-Mo2 (from Nigerian Composite B) using recurrent selection. **other id:** GP-141. **source:** Crop Sci. 25(4):715 1985. **group:** CSR-MAIZE. **remarks:** Resistant to second brood European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550558. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Hawk, J. A., University of Delaware, Department of Plant Science, Newark, Delaware, United States. Received 1985.

origin: United States. **origin institute:** Delaware Agr. Exp. Sta., University of Delaware, Neward, Delaware 19711. **cultivar:** DE811. **pedigree:** Developed from selfing and selection for 6 generations the cross B68 and an inbred derived from B37 Ht//(C103/Mp3204 double cross)selection. **other id:** GP-142. **source:** Crop Sci. 25(4):716 1985. **group:** CSR-MAIZE. **remarks:** Yellow dent inbred. Leaves upright. Pollen production good: Yield average. Silks purple. Cob red. Yellow-brown kernels. Maturity is AES700-800. Resistant to southern corn leaf blight (*Cochliobolus heterostrophus*) and both generations of European corn borer (*Ostrinia nubilalis*). Annual. Breeding Material. Seed.

PI 550559. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: West, D. R., University of Tennessee, Department of Plant and Soil Science, 350 Plant Science Bldg., Knoxville, Tennessee, United States. Received 1985.

origin: United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37916. **cultivar:** T163. **pedigree:** Developed from the Virus Resistant Dent Synthetic-Waverly (TVRDW) by ear-to-row selection and selfing for 7 generations. **other id:** GP-143. **source:** Crop Sci. 26(1):208 1986. **group:** CSR-MAIZE. **remarks:** Plant large with few or no brace roots. Ear placement is midplant. Tassel large and open. Semi-prolific. Ear tapered and medium-sized with 12 rows of white dent kernels on a white cob. Maturity is AES1200. Intermediate tolerance to maize dwarf mosaic virus-strain A/maize chlorotic dwarf virus complex. Annual. Breeding Material. Seed.

PI 550560 to 550562. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cross, H. Z., North Dakota State University, 329 Walster Hall, Fargo, North Dakota, United States. Received 1985.

PI 550560 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSB(MS)C6. **pedigree:** Synthetic developed from NDSB with 6 cycles of mass selection. **other id:** GP-144. **source:** Crop Sci. 26(1):208 1986. **group:** CSR-MAIZE. **remarks:** Yellow dent endosperm. Plant and ear height, shelling percentage, test weight, and lodging resistance similar to NDSB. Yields 27.5% greater than NDSB. Maturity is AES200. Annual. Breeding Material. Seed.

PI 550560 to 550562-continued

PI 550561 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND257. **pedigree:** Selected from NDSC by selfing for 8 generations and selecting for desirable plant and ear traits. **other id:** PL-69. **source:** Crop Sci. 26(1):215 1986. **group:** CSR-MAIZE. **remarks:** Plant medium-tall. Ear placement slightly above midplant. Leaves short, wide. Tassels medium-sized. Ears medium-long with 14-18 yellow dent kernels. Low grain moisture at harvest. Good resistance to lodging. Maturity is AES200. Resistant to first brood European corn borer (*Ostrinia nubilalis*), maize dwarf mosaic virus and maize chlorotic mottle virus. Intermediate resistance for second brood. Annual. Breeding Material. Seed.

PI 550562 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND258. **pedigree:** Selected from NDSAB with 8 generations of selfing and selection. **other id:** PL-70. **source:** Crop Sci. 26(1):215 1986. **group:** CSR-MAIZE. **remarks:** Plants medium tall. Ear placement slightly below midplant. Leaves long, wide. Tassel medium. Ears medium-long having 10-12 rows of yellow dent kernels. Maturity is AES200. Resistant to first brood European corn borer (*Ostrinia nubilalis*), Goss's wilt (*Corynebacterium nebraskense*), and root pull. Intermediate resistance to maize dwarf mosaic virus, maize chlorotic mottle virus, and eyespot (*Kabatiella*). Annual. Breeding Material. Seed.

PI 550563. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Day, A. D., University of Arizona, Department of Plant Science, Tucson, Arizona, United States. Received 1985.

origin: United States. **origin institute:** Arizona Agr. Exp. Sta., University of Arizona, Tucson, Arizona 85721. **cultivar:** ARIZONA ARID ENVIRONMENT. **pedigree:** Bulk population of Hopi, Navajo, Papago Indian types (flour and dent) and 4 selections of Mexican June Complex were open-pollinated for 23 years. **other id:** GP-147. **source:** Crop Sci. 26(2):390 1986. **group:** CSR-MAIZE. **remarks:** Broad genetic base suited for forage and grain and adapted to arid, irrigated southwestern U.S. environment. Annual. Breeding Material. Seed.

PI 550564. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Hainzelin, E., Institut de Recherches Agron. Tropicales, Saint-Denis cedex, Reunion. Received 1985.

origin: Reunion. **origin institute:** Institut de Recherches Agron. Tropicales, Department of CIRAD, Saint-Denis cedex 97487. **cultivar:** IRAT 297. **pedigree:** Multi-step selection using Indian Ocean germplasm stocks. **other id:** GP-150. **source:** Crop Sci. 26(5):1090 1986. **group:** CSR-MAIZE. **remarks:** Plant tropical, leafy, tall, and moderately susceptible to stalk and root lodging. Grain yellow, semi-dent. Maturity is intermediate to late in earliness. Tolerance of maize streak virus, maize mosaic virus, and maize strip virus. Annual. Breeding Material. Seed.

PI 550565 to 550568. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Compton, W. A., University of Nebraska, Department of Agronomy, 279 Plant Science, Lincoln, Nebraska, United States. Received 1985.

PI 550565 **origin:** United States. **origin institute:** University of Nebraska, Department of Agronomy, Lincoln, Nebraska 68583. **cultivar:** N190. **pedigree:** Selected from (CM105/B73)F2. **other id:** PL-71. **source:** Crop Sci. 26(2):393 1986. **group:** CSR-MAIZE. **remarks:** Appearance similar to CM105, but flowers 1 day later. When crossed with Mol7, hybrid has outstanding yield and excellent root and stalk strength. Kernels yellow dent. Maturity is AES300. Annual. Breeding Material. Seed.

PI 550566 **origin:** United States. **origin institute:** University of Nebraska, Department of Agronomy, Lincoln, Nebraska 68583. **cultivar:** N192. **pedigree:** S5 line selected from (CM105/B73)F2. **other id:** PL-72. **source:** Crop Sci. 26(2):393 1986. **group:** CSR-MAIZE. **remarks:** Similar to B73 in appearance, but leaves less upright and flowers about 5 days earlier. When crossed with Mol7, hybrid has excellent yield, good root strength, and adequate stalk strength. Kernels yellow dent. Maturity is AES600. Annual. Breeding Material. Seed.

PI 550565 to 550568-continued

PI 550567 **origin:** United States. **origin institute:** University of Nebraska, Department of Agronomy, Lincoln, Nebraska 68583. **cultivar:** N193. **pedigree:** S5 lines selfed from a plant in NK(B)RF(2), an improved version of Krug. **other id:** PL-73. **source:** Crop Sci. 26(2):393 1986. **group:** CSR-MAIZE. **remarks:** Prolific plant. Silks white. Good hybrid yield, root strength, and stalk strength when crossed with Stiff Stalk Synthetic. Sister line of N194. Plant and ear height low. Kernels yellow dent. Maturity is AES300. Annual. Breeding Material. Seed.

PI 550568 **origin:** United States. **origin institute:** University of Nebraska, Department of Agronomy, Lincoln, Nebraska 68583. **cultivar:** N194. **pedigree:** S5 line selected from a plant in NK(B)RF(2), an improved version of Krug. **other id:** PL-74. **source:** Crop Sci. 26(2):393 1986. **group:** CSR-MAIZE. **remarks:** Sister line of N193. Plant prolific. Plant and ear height low. Silks white. Hybrid has very good yield and root and stalk strength when crossed with Stiff Stalk Synthetic. Kernels yellow dent. Maturity is AES300. Annual. Breeding Material. Seed.

PI 550569 to 550570. Zea mays L. subsp. mays POACEAE Corn

Donated by: Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa, United States. Received 1986.

PI 550569 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011. **cultivar:** BS18. **pedigree:** Developed by intermating BSK(S)C7 and MSK(HI)C7. **other id:** GP-148. **source:** Crop Sci. 26(4):838 1986. **group:** CSR-MAIZE. **remarks:** Maturity is AES800. Annual. Breeding Material. Seed.

PI 550570 **origin:** United States. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011. **cultivar:** BS26. **pedigree:** Bulk population of Composite A (BSL(HI)C5, BSL(SR)C6, BSTL(S)C2, B70, C103, C123, Mol7, N13, Oh43, Oh517, Va20, Va 35, Va44, Va58, Va59, Va60, Va61, Va36) and Composite B. **other id:** GP-149. **source:** Crop Sci. 26(4):838 1986. **group:** CSR-MAIZE. **remarks:** Composite B derived from Composite A, BS12(HI)C7, Nebraska Cattlecorn, C103, C123, Mol7, Oh43, and Ba35. Selected for resistance to first brood European corn borer (*Ostrinia nubilalis*), northern corn leaf blight (*Exserohilum turcicum*) and stalk rot. Maturity is AES800. Annual. Breeding Material. Seed.

PI 550571. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cross, H. Z., North Dakota State University, 329 Walster Hall, Fargo, North Dakota, United States. Received 1986.

origin: United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND259. **pedigree:** Selected from AS-D by selfing for 8 generations and selecting for desirable plant and ear traits. **other id:** PL-77. **source:** Crop Sci. 27(2):375 1987. **group:** CSR-MAIZE. **remarks:** Plants medium tall. Ear placement at midplant. Leaves long, moderately wide. Tassels medium large. Ears long, wide with 14-18 rows of yellow dent kernels. Maturity is AES200. Intermediate resistance to common rust (*Puccinia sorghi*). Produces hybrids with high yield, low grain moisture at harvest, and good lodging resistance. Annual. Breeding Material. Seed.

PI 550572 to 550573. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Cross, H. Z., North Dakota State University, 329 Walster Hall, Fargo, North Dakota, United States. Received 1986.

PI 550572 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** NDSBF. **pedigree:** Developed by 1 cycle of full-sib family selection among 78 full-sib families between NDSB(FS)C1 and NDSF(FS)C1. **other id:** GP-151. **source:** Crop Sci. 27(2):368 1987. **group:** CSR-MAIZE. **remarks:** Plant slightly taller than NDSB. Similar in plant and ear height to NDSF. Improved grain yield, test weight, ear moisture, and root lodging resistance than NDSB. Yellow dent endosperm. Maturity is AES100. Annual. Breeding Material. Seed.

PI 550573 **origin:** United States. **origin institute:** North Dakota Agr. Exp. Sta., North Dakota State University, Fargo, North Dakota 58105. **cultivar:** ND260. **pedigree:** Selected from NDSB after 8 generations of selfing and selection. **other id:** PL-78. **source:** Crop Sci. 27(2):375 1987. **group:** CSR-MAIZE. **remarks:** Plant medium tall. Ear placement below midplant. Tassels small. Leaves long, narrow. Ears with 10-14 rows of yellow dent kernels. Resistant to common rust (*Puccinia sorghi*). Intermediate resistance to first brood European corn borer (*Ostrinia nubilalis*). Maturity is AES200. Annual. Breeding Material. Seed.

PI 550574. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Georgia Agr. Exp. Sta., University of Georgia, Athens, Georgia, United States. Received 1988.

origin: United States. **origin institute:** Georgia Agr. Exp. Sta., University of Georgia, Athens, Georgia 30602. **cultivar:** GA 203. **pedigree:** T61/NC37. **other id:** PL-63. **source:** Crop Sci. 23(2):405 1983. **group:** CSR-MAIZE. **remarks:** Plant vigorous, 47 cm taller than GA 209. Ear placement is about 24 cm higher than GA 209. Yield good. White dent kernels on pink cob. Resistant to stalk and root lodging. Maturity is AES1000-1100. Resistant to maize dwarf mosaic virus, corn stunt spiroplasma, and maize chlorotic dwarf virus. Annual. Breeding Material. Seed.

PI 550575. *Saccharum* hybrid POACEAE Sugarcane

Donated by: Deren, C.W., Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida, United States; and Florida Agr. Exp. Sta.; and Florida Sugar Cane League. **remarks:** CP 81-1254 Sugarcane. Received May 14, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida 33438. **cultivar:** CP 81-1254. **pedigree:** Complex hybrid of *Saccharum officinarum*, *S. spontaneum*, *S. barberi*, and *S. sinense*. **other id:** CV-84. **source:** Crop Sci. 31(6):1706 1991. **group:** CSR-SUGARCANE. **remarks:** Germinates quickly. Stalk diameter medium to large. Fast growing clone with dark-green foliage and light-green stalk. Stalk weight over 3-crop cycle at 8 locations averaged 1.63 kg. Rarely flowers under natural conditions in Florida. Adequate resistance for commercial production in Florida to sugarcane mosaic virus, leaf acid (*Xanthomonas albilineans*), eye spot (*Bipolaris sachari*) and smut. Cultivar. Plant.

PI 550576. X *Triticosecale* sp. POACEAE Triticale

Donated by: Bruckner, P.L., Georgia Agr. Exp. Sta., University of Georgia, Tifton, Georgia, United States; and Florida Agr. Exp. Sta.. **remarks:** Sunland Triticale. Received May 14, 1991.

PI 550576-continued

origin: United States. **origin institute:** Georgia Agr. Exp. Sta., University of Georgia, Tifton, Georgia 31793. **cultivar:** SUNLAND. **pedigree:** Merino "S"/Juanillo. **other id:** CV-11. **source:** Crop Sci. 31(6):1710 1991. **group:** CSR-TRITICALE. **other id:** B-2736. **remarks:** Maturity early. Photoperiod-insensitive, spring, hexaploid derived from CIMMYT screening nursery (B-2736). Cold tolerance low. Lodging resistance moderate. Resistant to biotype D of *Mayetiola destructor*, *Puccinia recondita*, and *Xanthomonas campestris*. Moderately resistant to *Helminthosporium sativum*. Moderately susceptible to *Septoria nodorum*. Spring Annual. Cultivar. Plant.

PI 550577. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Toll, J., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received October 09, 1990.

donor id: TCD 101B. **origin:** Chad. **local name:** Kourdafan rouge. **collected:** November 17, 1987. **collector id:** TCD 101B. **locality:** 40km S of Bokoro to Ngama at Dilbini village, Chari Baguirmi. **latitude:** 12 deg. 00 min. N. **longitude:** 17 deg. 00 min. E. **elevation:** 340m. **remarks:** Race Durra, gooseneck. Wild. Seed.

PI 550578 to 550687. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Andriyash, N.V., Sorghum Breeding Laboratory, Kuban Experimental Station of VIR, 352183 Krasnodar Region, USSR. Received April 30, 1991.

PI 550578 **donor id:** VIR 9970. **origin:** USSR. **cultivar:** VOLZHSKOE 5. **other id:** 1. **locality:** G. Saratov. Annual. Breeding Material. Seed.

PI 550579 **donor id:** VIR 9447. **origin:** USSR. **cultivar:** NEVA 75. **other id:** 2. **locality:** G. Stavropol. Annual. Breeding Material. Seed.

PI 550580 **donor id:** VIR 9302. **origin:** USSR. **cultivar:** NADEZHDA I. **local name:** Hope 1 (English translation). **other id:** 3. **locality:** G. Stavropol. Annual. Breeding Material. Seed.

PI 550581 **donor id:** VIR 9448. **origin:** USSR. **cultivar:** NADEZHDA STAVROPOLYA. **local name:** Stavropol Hope (English translation). **other id:** 4. **locality:** G. Stavropol. Annual. Breeding Material. Seed.

PI 550578 to 550687-continued

- PI 550582 **origin:** USSR. **cultivar:** SKOROSPELOE 97. **other id:** 5.
locality: G. Zernograd. Annual. Breeding Material.
Seed.
- PI 550583 **origin:** USSR. **cultivar:** ZERNOGRADSKOE I. **other id:** 6.
locality: G. Zernograd. Annual. Breeding Material.
Seed.
- PI 550584 **origin:** USSR. **cultivar:** ZERNOGRADSKOE 54. **other id:** 7.
locality: G. Zernograd. Annual. Breeding Material.
Seed.
- PI 550585 **origin:** USSR. **cultivar:** ZERNOGRADSKOE 83. **other id:** 8.
locality: G. Zernograd. Annual. Breeding Material.
Seed.
- PI 550586 **origin:** USSR. **cultivar:** SKOROSPELOE 84. **other id:** 9.
locality: G. Zernograd. Annual. Breeding Material.
Seed.
- PI 550587 **donor id:** VIR 9267. **origin:** USSR. **cultivar:** GENICHESKOE
II. **other id:** 10. **locality:** G. Genichinsk. Annual.
Breeding Material. Seed.
- PI 550588 **donor id:** VIR 9526. **origin:** USSR. **cultivar:** GENICHESKOE
200. **other id:** 11. **locality:** G. Genichinsk. Annual.
Breeding Material. Seed.
- PI 550589 **donor id:** VIR 9280. **origin:** USSR. **cultivar:** ORION.
local name: Orion (English translation). **other id:** 12.
locality: G. Genichinsk. Annual. Breeding Material.
Seed.
- PI 550590 **origin:** USSR. **cultivar:** YETALON 85. **other id:** 13.
locality: Dnepropetrovsk. Annual. Breeding Material.
Seed.
- PI 550591 **donor id:** VIR 9968. **origin:** USSR. **cultivar:**
ZERNOGRADSKOE 53. **other id:** 14. **locality:** Zernograd.
Annual. Breeding Material. Seed.
- PI 550592 **donor id:** VIR 9263. **origin:** USSR. **cultivar:** SKOROSPELOE
89. **other id:** 15. **locality:** Zernograd. Annual.
Breeding Material. Seed.
- PI 550593 **donor id:** VIR 9343. **origin:** USSR. **cultivar:** LYUCHISTOE.
other id: 16. **locality:** Zernograd. Annual. Breeding
Material. Seed.

PI 550578 to 550687-continued

- PI 550594 donor id: VIR 9965. origin: USSR. cultivar: SKOROSPELOE 84. local name: Fast Ripening 84 (English translation). other id: 17. locality: Zernograd. Annual. Breeding Material. Seed.
- PI 550595 donor id: VIR 9966. origin: USSR. cultivar: SKOROSPELOE 97. local name: Fast Ripening 97 (English translation). other id: 18. locality: Zernograd. Annual. Breeding Material. Seed.
- PI 550596 donor id: VIR 9962. origin: USSR. cultivar: VOLZHSKOE 7. other id: 19. locality: Saratov. Annual. Breeding Material. Seed.
- PI 550597 donor id: VIR 9444. origin: USSR. cultivar: SKOROSPELOE 30. local name: Fast Ripening 30 (English translation). other id: 20. locality: Saratov. Annual. Breeding Material. Seed.
- PI 550598 donor id: VIR 9279. origin: USSR. cultivar: GORIZONT. local name: Horizon (English translation). other id: 21. locality: Odessa. Annual. Breeding Material. Seed.
- PI 550599 origin: USSR. cultivar: KUBANSKOE KRASNOE 1677. local name: Kuban Koe 1677 (English translation). other id: 22. locality: Krasnodar. Annual. Breeding Material. Seed.
- PI 550600 origin: USSR. cultivar: EFREMOVSKOE 2. other id: 23. locality: Krasnodar. Annual. Breeding Material. Seed.
- PI 550601 donor id: VIR 9441. origin: USSR. cultivar: SEREBRISTOE. other id: 24. locality: Zernograd. Annual. Breeding Material. Seed.
- PI 550602 donor id: VIR 9447. origin: USSR. cultivar: NENA 75. other id: 25. locality: Zernograd. Annual. Breeding Material. Seed.
- PI 550603 donor id: VIR 9968. origin: USSR. cultivar: KAMSHCHENSKOE 31. other id: 26. locality: Kuibshev. Annual. Breeding Material. Seed.
- PI 550604 donor id: VIR 9971. origin: USSR. cultivar: ZERNOGRAPSKOE 100. other id: 27. locality: Zernograd. Annual. Breeding Material. Seed.
- PI 550605 donor id: VIR 9414. origin: USSR. cultivar: ZARYA 106. other id: 28. locality: Zernograd. Annual. Breeding Material. Seed.

PI 550578 to 550687-continued

- PI 550606 donor id: VIR 9415. origin: USSR. cultivar: NATALYA 108. other id: 29. locality: Zernograd. Annual. Breeding Material. Seed.
- PI 550607 donor id: VIR 924. origin: China. cultivar: DZHUGARA BELAYA. local name: Zhugar White (English translation). other id: 30. Annual. Breeding Material. Seed.
- PI 550608 donor id: VIR 9339. origin: USSR. cultivar: KUBANSKOE 164. other id: 31. locality: Krasnodar. Annual. Breeding Material. Seed.
- PI 550609 donor id: VIR 9342. origin: USSR. cultivar: KUBANSKOE 165. other id: 32. locality: Krasnodar. Annual. Breeding Material. Seed.
- PI 550610 donor id: VIR 1362. origin: Syria. cultivar: DURRA BELAYA. local name: Dura White (English translation). other id: 33. Annual. Breeding Material. Seed.
- PI 550611 origin: USSR. cultivar: PRIVOLZHSKAYA. other id: 34. locality: Penza. Annual. Breeding Material. Seed.
- PI 550612 donor id: VIR 336. origin: USSR. cultivar: KAMSHEVSKAYA 44. other id: 35. locality: Volgograd. Annual. Breeding Material. Seed.
- PI 550613 origin: USSR. cultivar: SVETLOPLENCHATAYA 20. other id: 36. locality: Volgograd. Annual. Breeding Material. Seed.
- PI 550614 origin: USSR. cultivar: KASHTANOVAYA. other id: 37. locality: Volgograd. Annual. Breeding Material. Seed.
- PI 550615 origin: USSR. cultivar: KASHTANOVAYA SOCHNOSTEBELNAYA 30. local name: Kashtan Juicy-Stalk (English translation). other id: 38. locality: Volgograd. Annual. Breeding Material. Seed.
- PI 550616 origin: USSR. cultivar: SOCHNOSTEBELNAYA 18. local name: Juicy Stalk 18 (English translation). other id: 39. locality: Volgograd. Annual. Breeding Material. Seed.
- PI 550617 donor id: VIR 153. origin: USSR. cultivar: KINELSKAYA 90. other id: 40. locality: Kuibshev. Annual. Breeding Material. Seed.
- PI 550618 donor id: VIR 464. origin: USSR. cultivar: KINELSKAYA 100. other id: 41. locality: Kuibshev. Annual. Breeding Material. Seed.

PI 550578 to 550687-continued

- PI 550619 donor id: VIR 465. origin: USSR. cultivar: KINELSKAYA RANNYAYA. local name: Kinel'sk Early (English translation). other id: 42. locality: Kuib'shev. Annual. Breeding Material. Seed.
- PI 550620 donor id: VIR 385. origin: USSR. cultivar: VORONEZH'SKAYA 24. other id: 43. locality: Voronezh. Annual. Breeding Material. Seed.
- PI 550621 donor id: VIR 370. origin: USSR. cultivar: VORONEZH'SKAYA 70. other id: 44. locality: Voronezh. Annual. Breeding Material. Seed.
- PI 550622 origin: USSR. cultivar: KRASNODAR'SKAYA 75. other id: 45. locality: Krasnodar. Annual. Breeding Material. Seed.
- PI 550623 donor id: VIR 149. origin: USSR. cultivar: BRODSKAYA 2. other id: 46. Annual. Breeding Material. Seed.
- PI 550624 donor id: VIR 460. origin: USSR. cultivar: IZUMRUDNAYA. other id: 47. locality: Ufa. Annual. Breeding Material. Seed.
- PI 550625 donor id: VIR 461. origin: USSR. cultivar: TUGAJ. other id: 48. locality: Ufa. Annual. Breeding Material. Seed.
- PI 550626 origin: USSR. cultivar: KUIB'SHEV'SKAYA 63. other id: 49. locality: Kuib'shev. Annual. Breeding Material. Seed.
- PI 550627 origin: USSR. cultivar: STANICHNAYA 7. other id: 50. locality: Zernograd. Annual. Breeding Material. Seed.
- PI 550628 donor id: VIR 476. origin: USSR. cultivar: ZERNOGRAD'SKAYA 576. other id: 51. locality: Zernograd. Annual. Breeding Material. Seed.
- PI 550629 donor id: VIR 38. origin: USSR. cultivar: AMUR'SKAYA I. other id: 52. Annual. Breeding Material. Seed.
- PI 550630 donor id: VIR 16. origin: USSR. cultivar: KRASNOPLENCHATAYA 16. other id: 53. locality: Krasnodar. Annual. Breeding Material. Seed.
- PI 550631 donor id: VIR 379. origin: USSR. cultivar: KASHTANOVAYA 2. other id: 54. locality: Krasnodar. Annual. Breeding Material. Seed.
- PI 550632 origin: USSR. cultivar: KASHTANOVAYA 30. other id: 55. locality: Krasnodar. Annual. Breeding Material. Seed.

PI 550578 to 550687-continued

- PI 550633 **origin:** USSR. **cultivar:** KUBANSKAYA 183. **other id:** 56. **locality:** Krasnodar. Annual. Breeding Material. Seed.
- PI 550634 **donor id:** VIR 290. **origin:** USSR. **cultivar:** DZHURUNSKAYA. **other id:** 57. **locality:** Aktyubinsk. Annual. Breeding Material. Seed.
- PI 550635 **donor id:** VIR 364. **origin:** USSR. **cultivar:** KAZANSKAYA. **other id:** 58. **locality:** Kazan. Annual. Breeding Material. Seed.
- PI 550636 **donor id:** VIR 365. **origin:** USSR. **cultivar:** ULYANOVSKAYA I. **other id:** 59. **locality:** Ulyanovsk. Annual. Breeding Material. Seed.
- PI 550637 **donor id:** VIR 462. **origin:** USSR. **cultivar:** SOCHNOVSKOYA. **local name:** Highly Juicy (English translation). **other id:** 60. **locality:** Zernograd. Annual. Breeding Material. Seed.
- PI 550638 **origin:** USSR. **cultivar:** SEREBRISTOE 243. **other id:** 61. Annual. Breeding Material. Seed.
- PI 550639 **donor id:** VIR 9327. **origin:** USSR. **cultivar:** KHEGARI RANNII 85. **local name:** Khegar Early 85 (English translation). **other id:** 62. Annual. Breeding Material. Seed.
- PI 550640 **donor id:** VIR 9329. **origin:** USSR. **cultivar:** KHEGARI BUROE L-107. **other id:** 63. Annual. Breeding Material. Seed.
- PI 550641 **donor id:** VIR 9260. **origin:** USSR. **cultivar:** KHAZINE 4. **other id:** 64. Annual. Breeding Material. Seed.
- PI 550642 **donor id:** VIR 9261. **origin:** USSR. **cultivar:** KHAZINE 20. **other id:** 65. Annual. Breeding Material. Seed.
- PI 550643 **origin:** USSR. **cultivar:** ZERNOGRADSKOE 8. **other id:** 66. Annual. Breeding Material. Seed.
- PI 550644 **origin:** USSR. **cultivar:** UROZHAIJNOE 8. **other id:** 67. Annual. Breeding Material. Seed.
- PI 550645 **donor id:** VIR 9444. **origin:** USSR. **cultivar:** SKOROSPELOE 30. **local name:** Fast Ripening 30 (English translation). **other id:** 68. Annual. Breeding Material. Seed.
- PI 550646 **donor id:** VIR 9537. **origin:** USSR. **cultivar:** MK-70. **other id:** 69. Annual. Breeding Material. Seed.

PI 550578 to 550687-continued

- PI 550647 donor id: VIR 9542. origin: USSR. cultivar: MK-117.
other id: 70. Annual. Breeding Material. Seed.
- PI 550648 origin: USSR. cultivar: PROS 7. other id: 71. Annual.
Breeding Material. Seed.
- PI 550649 donor id: VIR 8905. origin: USSR. cultivar: KS-8.
other id: 72. Annual. Breeding Material. Seed.
- PI 550650 donor id: VIR 8918. origin: USSR. cultivar: KS-20.
other id: 73. Annual. Breeding Material. Seed.
- PI 550651 donor id: VIR 8924. origin: USSR. cultivar: KS-26.
other id: 74. Annual. Breeding Material. Seed.
- PI 550652 donor id: VIR 8926. origin: USSR. cultivar: OK-1.
other id: 75. Annual. Breeding Material. Seed.
- PI 550653 donor id: VIR 8928. origin: USSR. cultivar: OK-3.
other id: 76. Annual. Breeding Material. Seed.
- PI 550654 donor id: VIR 8930. origin: USSR. cultivar: OK-5.
other id: 77. Annual. Breeding Material. Seed.
- PI 550655 donor id: VIR 8931. origin: USSR. cultivar: OK-6.
other id: 78. Annual. Breeding Material. Seed.
- PI 550656 donor id: VIR 8933. origin: USSR. cultivar: OK-8.
other id: 79. Annual. Breeding Material. Seed.
- PI 550657 donor id: VIR 8934. origin: USSR. cultivar: OK-9.
other id: 80. Annual. Breeding Material. Seed.
- PI 550658 donor id: VIR 8938. origin: USSR. cultivar: OK-13.
other id: 81. Annual. Breeding Material. Seed.
- PI 550659 donor id: VIR 8939. origin: USSR. cultivar: OK-14.
other id: 82. Annual. Breeding Material. Seed.
- PI 550660 origin: USSR. cultivar: OK-15A. other id: 83. Annual.
Breeding Material. Seed.
- PI 550661 donor id: VIR 8941. origin: USSR. cultivar: OK-16.
other id: 84. Annual. Breeding Material. Seed.
- PI 550662 origin: USSR. cultivar: OK-18. other id: 85. Annual.
Breeding Material. Seed.
- PI 550663 donor id: VIR 8942. origin: USSR. cultivar: OK-20.
other id: 86. Annual. Breeding Material. Seed.

PI 550578 to 550687-continued

- PI 550664 donor id: VIR 8970. origin: USSR. cultivar: OK-48.
other id: 87. Annual. Breeding Material. Seed.
- PI 550665 donor id: VIR 9324. origin: USSR. cultivar: KY-6.
other id: 88. Annual. Breeding Material. Seed.
- PI 550666 donor id: VIR 5103. origin: USSR. cultivar: MESTNOE
BELOZERNOE. local name: Local B1 grain (English
translation). other id: 89. Annual. Breeding Material.
Seed.
- PI 550667 donor id: VIR 3530. origin: USSR. cultivar: KAFRSKOE
KRASNOR 350. local name: Kafr Red 350 (English
translation). other id: 90. Annual. Breeding Material.
Seed.
- PI 550668 donor id: VIR 9358. origin: USSR. cultivar: KU-17.
other id: 91. Annual. Breeding Material. Seed.
- PI 550669 donor id: VIR 9360. origin: USSR. cultivar: KU-19.
other id: 92. Annual. Breeding Material. Seed.
- PI 550670 donor id: VIR 9377. origin: USSR. cultivar: KY-23.
other id: 93. Annual. Breeding Material. Seed.
- PI 550671 donor id: VIR 9373. origin: USSR. cultivar: KY-25.
other id: 94. Annual. Breeding Material. Seed.
- PI 550672 donor id: VIR 9919. origin: USSR. local name: Sorghum.
other id: 95. Annual. Breeding Material. Seed.
- PI 550673 donor id: PPL No. 964. origin: USSR. other id: 96.
Annual. Breeding Material. Seed.
- PI 550674 donor id: PPL No. 967. origin: USSR. other id: 97.
Annual. Breeding Material. Seed.
- PI 550675 donor id: PPL No. 979. origin: USSR. other id: 98.
Annual. Breeding Material. Seed.
- PI 550676 donor id: PPL No. 984. origin: USSR. other id: 99.
Annual. Breeding Material. Seed.
- PI 550677 donor id: PPL No. 995. origin: USSR. other id: 100.
Annual. Breeding Material. Seed.
- PI 550678 donor id: PPL No. 1006. origin: USSR. other id: 101.
Annual. Breeding Material. Seed.
- PI 550679 donor id: PPL No. 1017. origin: USSR. other id: 102.
Annual. Breeding Material. Seed.

PI 550578 to 550687-continued

- PI 550680 donor id: PPL No. 1019. origin: USSR. other id: 103.
Annual. Breeding Material. Seed.
- PI 550681 donor id: PPL No. 1041. origin: USSR. other id: 104.
Annual. Breeding Material. Seed.
- PI 550682 donor id: PPL No. 1051. origin: USSR. other id: 105.
Annual. Breeding Material. Seed.
- PI 550683 donor id: PPL No. 1063. origin: USSR. other id: 106.
Annual. Breeding Material. Seed.
- PI 550684 donor id: PPL No. 1066. origin: USSR. other id: 107.
Annual. Breeding Material. Seed.
- PI 550685 donor id: PPL No. 1079. origin: USSR. other id: 108.
Annual. Breeding Material. Seed.
- PI 550686 donor id: PPL No. 1087. origin: USSR. other id: 109.
Annual. Breeding Material. Seed.
- PI 550687 donor id: PPL No. 1102. origin: USSR. other id: 110.
Annual. Breeding Material. Seed.

PI 550688. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Wang, R., USDA-ARS, Utah State University, Forage and Range Res. Lab., Logan, Utah, United States. Received July 23, 1990.

origin: China. **cultivar:** YUE YOU 551. **other id:** 72.
remarks: Tolerant to aluminum soils. Cultivar. Seed.

PI 550689 to 550694. *Cucurbita moschata* (Duchesne) Poiret
CUCURBITACEAE Squash

Donated by: Pearson, O., Dept. of Plant Breeding and Biometry, Cornell University, Ithaca, New York, United States. Received May 03, 1991.

PI 550689 **origin:** United States. **cultivar:** CANADA CROOKNECK (87-1). **remarks:** Variety which spontaneously gave rise to the first butternut-type squash. Only recorded instance of spontaneous change from crookneck to butternut fruit. Cultivar. Seed.

PI 550689 to 550694-continued

- PI 550690 **origin:** United States. **cultivar:** DERIVED CROOKNECK (87-2). **pedigree:** Spontaneous revertant to a crookneck type fruit in the cultivar Butternut. **remarks:** Crookneck line derived from the self progeny of a rouge crookneck plant in a population of the unstable cultivar Butternut. Breeding Material. Seed.
- PI 550691 **origin:** United States. **cultivar:** NEW HAMPSHIRE BUTTERNUT (87-3). **pedigree:** Korean *C. moschata* accession Tsurukubi x Butternut - selected for fruit with short necks. **remarks:** First stable butternut cultivar released and the source of fruit type stability for all subsequent butternut cultivars. Cultivar. Seed.
- PI 550692 **origin:** United States. **cultivar:** PONCA BN (87-4). **remarks:** Part of isogenic set derived from hand pollinator of 2 branches of a rare dimorphic plant in a field of Ponca Butternut. Relatively stable producer of butternut type fruit. Breeding Material. Seed.
- PI 550693 **origin:** United States. **cultivar:** PONCA CR (87-6). **remarks:** Part of isogenic set derived from hand pollinator of 2 branches of a rare dimorphic plant in a field of Ponca Butternut. Produces mostly Crookneck type fruit. Only crookneck line that produces dimorphic and Crookneck F1 progeny when used to pollinate a stable butternut cultivar. Breeding Material. Seed.
- PI 550694 **origin:** United States. **cultivar:** REGULAR BUTTERNUT (87-5). **pedigree:** Derived from spontaneous mutation in a field of Canada Crookneck. **remarks:** A direct descendent from the original cultivar Butternut. Unstable for butternut type fruit. Must be rogued at flowering by examination of ovary shape. Cultivar. Seed.

PI 550695. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Lifaco Genetics, United States. Received May 17, 1991.

origin: United States. **origin institute:** Lifaco Genetics. **cultivar:** L155. **other id:** PVP 9100163. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550696. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received May 17, 1991.

PI 550696-continued

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 2510. **other id:** PVP 9100164. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550697. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received May 17, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 2545. **other id:** PVP 9100165. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550698. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Del Monte Corp., United States. Received May 17, 1991.

origin: United States. **origin institute:** Del Monte Corp.. **cultivar:** DMC 56-04. **other id:** PVP 9100166. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550699. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Del Monte Corp., United States. Received May 17, 1991.

origin: United States. **origin institute:** Del Monte Corp.. **cultivar:** DMC 56-52. **other id:** PVP 9100167. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550700. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Del Monte Corp., United States. Received May 17, 1991.

origin: United States. **origin institute:** Del Monte Corp.. **cultivar:** DMC 56-54. **other id:** PVP 9100168. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550701. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Vilmorin, S.A., France. Received May 17, 1991.

origin: France. **origin institute:** Vilmorin, S.A.. **cultivar:** AXEL. **other id:** PVP 9100169. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550702. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Bronco Seed Company, United States. Received May 17, 1991.

origin: United States. **origin institute:** Bronco Seed Company. **cultivar:** BRONCO 414. **other id:** PVP 9100170. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550703. *Apium graveolens* L. APIACEAE Celery

Donated by: Tanimura & Antle, Inc., United States. Received May 17, 1991.

origin: United States. **origin institute:** Tanimura & Antle, Inc.. **cultivar:** EXP 1. **other id:** PVP 9100171. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550704. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Pickseed West, Inc., Tangent, Oregon, United States. Received May 17, 1991.

origin: United States. **origin institute:** Pickseed West, Inc.. **cultivar:** VEGAS. **other id:** PVP 9100174. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550705. *Pisum sativum* L. FABACEAE Pea

Donated by: Rogers NK Seed Company, United States. Received May 17, 1991.

origin: United States. **origin institute:** Rogers NK Seed Company. **cultivar:** GLACIER. **other id:** PVP 9100175. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550706. *Pisum sativum* L. FABACEAE Pea

Donated by: Rogers NK Seed Company, United States. Received May 17, 1991.

origin: United States. **origin institute:** Rogers NK Seed Company. **cultivar:** MARINER. **other id:** PVP 9100176. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550707. *Pisum sativum* L. FABACEAE Pea

Donated by: Rogers NK Seed Company, United States. Received May 17, 1991.

PI 550707-continued

origin: United States. **origin institute:** Rogers NK Seed Company. **cultivar:** TASMAN. **other id:** PVP 9100177.
source: Pending. **group:** PVPO. **Cultivar.** Seed.

PI 550708. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Rogers NK Seed Company, United States. Received May 17, 1991.

origin: United States. **origin institute:** Rogers NK Seed Company. **cultivar:** SEVILLE. **other id:** PVP 9100178.
source: Pending. **group:** PVPO. **Cultivar.** Seed.

PI 550709. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Pure-Seed Testing, Inc., Hubbard, Oregon, United States. Received May 17, 1991.

origin: United States. **origin institute:** Pure-Seed Testing, Inc.. **cultivar:** TOMAHAWK. **other id:** PVP 9100179. **source:** Pending. **group:** PVPO. **Cultivar.** Seed.

PI 550710 to 550711. X *Tritordeum* sp. POACEAE

Donated by: California Agr. Exp. Sta., Davis, California, United States. Received September 15, 1945.

PI 550710 **origin:** United States. **cultivar:** CALIFORNIA 6058. **other id:** CItr 12382. **Seed.**

PI 550711 **origin:** United States. **cultivar:** CALIFORNIA 6059. **other id:** CItr 12383. **Seed.**

PI 550712. X *Tritordeum* sp. POACEAE

Donated by: Kansas Agr. Exp. Sta., Manhattan, Kansas, United States. Received September 18, 1953.

origin: United States. **cultivar:** KANSAS 51R2361. **other id:** CItr 13114. **Seed.**

PI 550713. X *Tritordeum* sp. POACEAE

Donated by: Suneson, Coit, California Agr. Exp. Sta., Davis, California, United States. Received August 15, 1961.

PI 550713-continued

origin: United States. **cultivar:** CALIFORNIA 609. **other id:** CIttr 13671. Seed.

PI 550714. X Tritordeum sp. POACEAE

Donated by: Suneson, Coit, California Agr. Exp. Sta., Davis, California, United States. Received February 1962.

origin: United States. **cultivar:** CAS 10180. **other id:** CIttr 13724. Seed.

PI 550715. X Tritordeum sp. POACEAE

Donated by: Hehn, E.R., Montana Agr. Exp. Sta., Bozeman, Montana, United States. Received February 14, 1964.

origin: United States. **cultivar:** AGROTANA. **other id:** CIttr 13925. Seed.

PI 550716. X Tritordeum sp. POACEAE

Donated by: CSIRO, Australia. Received June 1968.

origin: UNKNOWN. **cultivar:** P.6297. **other id:** CIttr 14375. Seed.

PI 550717. Phaseolus vulgaris L. FABACEAE Bean

Donated by: USDA-ARS, National Seed Storage Lab, Colorado State University, Ft. Collins, Colorado, United States. Received 1983.

origin: United States. **cultivar:** BOTH GREW ON SAME VINE. Seed.

PI 550718. Beta vulgaris subsp. maritima (L.) Arcang. CHENOPODIACEAE

Donated by: McFarlane, J.S., USDA-ARS, U.S. Agricultural Research Station, P.O. Box 5098, Salinas, California, United States. Received February 28, 1990.

origin: Ireland. **other id:** WB 181. **other id:** Ames 4249. **source:** NC-7. **group:** Ames. **received as:** Beta maritima. Wild. Seed.

PI 550719. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Agricultural Research Service -- USDA, Tropical Agriculture Research Station, P.O. Box 70, Mayaguez, Puerto Rico. Received May 07, 1991.

origin: Puerto Rico. **cultivar:** PUERTO RICO MAYORBELA(R)C0. **remarks:** Local yellow flint type cultivar. Primary trait for selection was increased yield with secondary selection for root and stalk lodging. Also selected for improved disease tolerance especially major endemic tropical diseases including southern corn rust (*Puccinia polysora*), southern corn leaf spot (*Helminthosporium maydis* Raco O), Northern corn leaf spot (*H. turcicum*), corn ear smut. Breeding Material. Seed.

PI 550720. *Saccharum* hybrid POACEAE Sugarcane

Donated by: Deren, C.W., Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida, United States; and Florida Agr. Exp. Sta.; and Florida Sugar Cane League, Inc.. **remarks:** CP 82-1592 Sugarcane. Received May 31, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida 33438. **cultivar:** CP 82-1592. **pedigree:** CP 72-1210/CP 70-1133. **other id:** CV-85. **source:** Crop Sci. 31(6):1706 1991. **group:** CSR-SUGARCANE. **remarks:** Fast growing clone with broad leaves and rapid emergence, which enables canopy to close quickly. Flowers approx. 1 week later than CP 70-1133 and about the same time as CP 72-1210, the commercial checks. Stalk weight over 3-crop cycle averaged 1.30 kg. Adequate resistance, for commercial production in Florida, to sugarcane mosaic virus, leaf scald (*Xanthomonas albilineans*), eye spot (*Bipolaris sacchari*),. Cultivar. Plant.

PI 550721. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Smith, O.D., Texas Agr. Exp. Sta., College Station, Texas, United States; and Agricultural Research Service -- USDA. **remarks:** Tamspan 90 Peanut. Received May 31, 1991.

PI 550721-continued

origin: United States. **origin institute:** Texas Agr. Exp. Sta., College Station, Texas 77843-2474. **cultivar:** TAMSPAN 90. **pedigree:** TOALSON/UF73-4022. **other id:** CV-44. **source:** Crop Sci. 31(6):1711 1991. **group:** CSR-PEANUT. **remarks:** Spanish type with vegetative growth, rate of growth, foliage density, and main stem height similar to Starr. Foliage color darker green than Starr. Pods slightly larger and have less constriction than Starr, reticulation is moderate, and mostly with two seeds but the percentage of three-seed pods is greater (2 to 5%) than in Starr (less than 1%). Seeds round, tan, and about 10% heavier than. Spring Annual. Cultivar. Seed.

PI 550722. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Peterson, M.A., W-L Research, Inc., 8701 Highway 14, Evansville, Wisconsin, United States. **remarks:** WL 225 Alfalfa. Received May 31, 1991.

origin: United States. **origin institute:** W-L Research, Inc., 8701 Highway 14, Evansville, Wisconsin 53536-9593. **cultivar:** WL 225. **pedigree:** Synthetic composed of 198 plants. **other id:** CV-167. **source:** Crop Sci. 31(6):1700 1991. **group:** CSR-ALFALFA. **other id:** PVP 8700060. **source:** Certificate in force. **group:** PVPO. **remarks:** Fall-dormant variety adapted for forage use in the northwestern, midwestern, and northeastern regions of the U.S. Flower color approx. 94% purple to dark purple, approx. 5% blue and blue variegated, and about 1% yellow with trace of cream. High resistance to bacterial wilt, fusarium wilt, and phytophthora root rot. Resistance to verticillium wilt, pea aphid, and spotted alfalfa aphid. Moderate resistance to. Perennial. Cultivar. Seed.

PI 550723. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Peterson, M.A., W-L Research, Inc., 8701 Highway 14, Evansville, Wisconsin, United States. **remarks:** WL 317 Alfalfa. Received May 31, 1991.

PI 550723-continued

origin: United States. **origin institute:** W-L Research, Inc., 8701 Highway 14, Evansville, Wisconsin 53536-9593. **cultivar:** WL 317. **pedigree:** Synthetic composed of 83 plants. **other id:** CV-168. **source:** Crop Sci. 31(6):1700 1991. **group:** CSR-ALFALFA. **other id:** PVP 8900266. **source:** Certificate in force. **group:** PVPO. **remarks:** Fall-dormant variety adapted for forage use in the northwestern, midwestern, and northeastern regions of the U.S. Flower color approx. 99% purple to dark purple, and about 1% blue and blue variegated. High resistance to bacterial wilt (*Clavibacter michiganense*), fusarium wilt (*Fusarium oxysporum*), phytophthora root rot, and pea aphid (*Therioaphis maculata*), and stem nematode. Moderate. Perennial. Cultivar. Seed.

PI 550724. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Peterson, M.A., W-L Research, Inc., 8701 Highway 14, Evansville, Wisconsin, United States. **remarks:** WL 457 Alfalfa. Received May 31, 1991.

origin: United States. **origin institute:** W-L Research, Inc., 8701 Highway 14, Evansville, Wisconsin 53536-9593. **cultivar:** WL 457. **pedigree:** 250 clone synthetic. **other id:** CV-169. **source:** Crop Sci. 31(6):1700 1991. **group:** CSR-ALFALFA. **other id:** PVP 9100205. **source:** Pending. **group:** PVPO. **remarks:** Fall-dormant variety adapted for forage use in the southwestern and southeastern regions of the U.S. Flower color approx. 99% purple to dark purple, and about 1% blue and blue variegated. High resistance to spotted alfalfa aphid, blue alfalfa aphid, pea aphid (*Acyrtosiphon pisum*), stem nematode, and fusarium wilt (*Fusarium oxysporum*). Resistance to phytophthora root rot. Perennial. Cultivar. Seed.

PI 550725. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Sotomayor, T., Agricultural Research Service -- USDA, Tropical Agriculture Research Station, P.O. Box 70, Mayaguez, Puerto Rico. Received June 03, 1991.

PI 550725-continued

origin: Puerto Rico. **origin institute:** Agricultural Research Service -- USDA, Tropical Agriculture Research Station, Mayaguez 00709. **cultivar:** MILLO BLANCO.
remarks: Photoperiod sensitive, tall, high quality forage and grain sorghum. Stalks dry (white midrib). Plant color purple and strong brace roots. Highly tolerant to Mn toxicity. Moderately tolerant to high Al toxicity (50% Al saturation). Seed color heterogeneous ranging from cream to white. Maintainer line Al sterile cytoplasm. Dry forage yields averaged 4.5 and 6.3 T ha⁻¹ during short days (September-. Breeding Material. Seed.

PI 550726. *Vigna unguiculata* (L.) Walp. FABACEAE

Donated by: Harlan, J.R., BPIS&AE, Beltsville, Maryland, United States. Received June 05, 1991.

origin: UNKNOWN. Cultivated. Seed.

PI 550727. *Melilotus albus* Medikus FABACEAE White sweetclover

Donated by: USDA-ARS, Clover Investigations, Beltsville, Maryland, United States. Received June 05, 1991.

origin: UNKNOWN. **cultivar:** GRUNDY COUNTY DWARF.
remarks: White variety of early maturity. Growth and maturity uniform. Does not generally attain a height greater than four feet in second year. Matures 10 days to two weeks earlier than Common White. Distinctly inferior forage yield but quality is excellent. Seed yields abundant and easily harvested. Popular with northern seed growers. Biennial. Cultivar. Seed.

PI 550728. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 07, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9131. **other id:** PVP 9100180. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550729. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 07, 1991.

PI 550729-continued

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9231. **other id:** PVP 9100181. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550730. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 07, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9392. **other id:** PVP 9100182. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550731. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 07, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9443. **other id:** PVP 9100183. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550732. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 07, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9593. **other id:** PVP 9100184. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550733. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 07, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9551. **other id:** PVP 9100185. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550734. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received June 07, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9583. **other id:** PVP 9100186. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550735. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received June 07, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9521. **other id:** PVP 9100187. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550736. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received June 07, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9761. **other id:** PVP 9100188. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550737. Capsicum annuum L. SOLANACEAE Pepper

Donated by: Del Monte Corp., United States. Received June 07, 1991.

origin: United States. **origin institute:** Del Monte Corp.. **cultivar:** DMC 56-53. **other id:** PVP 9100189. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550738. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received June 07, 1991.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** A6961. **other id:** PVP 9100190. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 550739. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received June 07, 1991.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3242. **other id:** PVP 9100191.
source: Pending. **group:** PVPO. **Cultivar.** Seed.

PI 550740. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received June 07, 1991.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** A1662. **other id:** PVP 9100192.
source: Pending. **group:** PVPO. **Cultivar.** Seed.

PI 550741 to 550877. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Maunder, B., DeKalb Agricultural Research, Inc., Texas, United States. **remarks:** Received through R.R. Duncan, Georgia Agr. Exp. Sta., University of Georgia, Griffin, Georgia. Received April 15, 1991.

PI 550741 **donor id:** ZA 64. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90968. **Cultivated.** Seed.

PI 550742 **donor id:** EN 1295. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 421-4-28-1. **remarks:** Tan. **Cultivated.** Seed.

PI 550743 **donor id:** ZA 233. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93630. **Cultivated.** Seed.

PI 550744 **donor id:** ZA 70. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90975. **Cultivated.** Seed.

PI 550745 **donor id:** ZA 74. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90979. **Cultivated.** Seed.

PI 550746 **donor id:** ZA 76. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90982. **Cultivated.** Seed.

PI 550741 to 550877-continued

- PI 550747 **donor id:** ZA 68. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 90973. Cultivated. Seed.
- PI 550748 **donor id:** ZA 87. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 91003. Cultivated. Seed.
- PI 550749 **donor id:** ZA 91. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 91009. Cultivated. Seed.
- PI 550750 **donor id:** ZA 94. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 91013. Cultivated. Seed.
- PI 550751 **donor id:** ZA 95. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 91014. Cultivated. Seed.
- PI 550752 **donor id:** ZA 99. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 91454. Cultivated. Seed.
- PI 550753 **donor id:** ZA 85. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 90999. Cultivated. Seed.
- PI 550754 **donor id:** ZA 86. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 91002. Cultivated. Seed.
- PI 550755 **donor id:** ZA 101. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 91467. Cultivated. Seed.
- PI 550756 **donor id:** ZA 102. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 92941. Cultivated. Seed.
- PI 550757 **donor id:** ZA 103. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 92942. Cultivated. Seed.
- PI 550758 **donor id:** ZA 104. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93172. Cultivated. Seed.
- PI 550759 **donor id:** ZA 105. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93173. Cultivated. Seed.

PI 550741 to 550877-continued

- PI 550760 **donor id:** ZA 106. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93174. Cultivated. Seed.
- PI 550761 **donor id:** ZA 107. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93175. Cultivated. Seed.
- PI 550762 **donor id:** ZA 108. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93176. Cultivated. Seed.
- PI 550763 **donor id:** ZA 109. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93177. Cultivated. Seed.
- PI 550764 **donor id:** ZA 110. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93178. Cultivated. Seed.
- PI 550765 **donor id:** ZA 111. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93179. Cultivated. Seed.
- PI 550766 **donor id:** ZA 112. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93180. Cultivated. Seed.
- PI 550767 **donor id:** ZA 113. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93181. Cultivated. Seed.
- PI 550768 **donor id:** ZA 114. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93182. Cultivated. Seed.
- PI 550769 **donor id:** ZA 115. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93183. Cultivated. Seed.
- PI 550770 **donor id:** ZA 116. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93184. Cultivated. Seed.
- PI 550771 **donor id:** ZA 120. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93188. Cultivated. Seed.
- PI 550772 **donor id:** ZA 121. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93189. Cultivated. Seed.

PI 550741 to 550877-continued

- PI 550773 **donor id:** ZA 123. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93315. Cultivated. Seed.
- PI 550774 **donor id:** ZA 124. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93317. Cultivated. Seed.
- PI 550775 **donor id:** ZA 118. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93186. Cultivated. Seed.
- PI 550776 **donor id:** ZA 119. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93187. Cultivated. Seed.
- PI 550777 **donor id:** ZA 125. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93319. Cultivated. Seed.
- PI 550778 **donor id:** ZA 126. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93320. Cultivated. Seed.
- PI 550779 **donor id:** ZA 127. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93324. Cultivated. Seed.
- PI 550780 **donor id:** ZA 128. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93325. Cultivated. Seed.
- PI 550781 **donor id:** ZA 129. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93327. Cultivated. Seed.
- PI 550782 **donor id:** ZA 130. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93328. Cultivated. Seed.
- PI 550783 **donor id:** ZA 131. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93329. Cultivated. Seed.
- PI 550784 **donor id:** ZA 132. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93330. Cultivated. Seed.
- PI 550785 **donor id:** ZA 133. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93334. Cultivated. Seed.

PI 550741 to 550877-continued

- PI 550786 **donor id:** ZA 134. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93335. Cultivated. Seed.
- PI 550787 **donor id:** ZA 135. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93336. Cultivated. Seed.
- PI 550788 **donor id:** ZA 136. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93337. Cultivated. Seed.
- PI 550789 **donor id:** ZA 137. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93338. Cultivated. Seed.
- PI 550790 **donor id:** ZA 138. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93339. Cultivated. Seed.
- PI 550791 **donor id:** ZA 139. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93344. Cultivated. Seed.
- PI 550792 **donor id:** ZA 140. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93345. Cultivated. Seed.
- PI 550793 **donor id:** ZA 141. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93346. Cultivated. Seed.
- PI 550794 **donor id:** ZA 142. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93347. Cultivated. Seed.
- PI 550795 **donor id:** ZA 143. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93349. Cultivated. Seed.
- PI 550796 **donor id:** ZA 144. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93350. Cultivated. Seed.
- PI 550797 **donor id:** ZA 145. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93351. Cultivated. Seed.
- PI 550798 **donor id:** ZA 146. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93353. Cultivated. Seed.

PI 550741 to 550877-continued

- PI 550799 **donor id:** ZA 147. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93356. Cultivated. Seed.
- PI 550800 **donor id:** ZA 148. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93357. Cultivated. Seed.
- PI 550801 **donor id:** ZA 149. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93358. Cultivated. Seed.
- PI 550802 **donor id:** ZA 150. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93360. Cultivated. Seed.
- PI 550803 **donor id:** ZA 151. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93362. Cultivated. Seed.
- PI 550804 **donor id:** ZA 152. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93365. Cultivated. Seed.
- PI 550805 **donor id:** ZA 153. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93367. Cultivated. Seed.
- PI 550806 **donor id:** ZA 154. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93368. Cultivated. Seed.
- PI 550807 **donor id:** ZA 155. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93370. Cultivated. Seed.
- PI 550808 **donor id:** ZA 158. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93374. Cultivated. Seed.
- PI 550809 **donor id:** ZA 159. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93375. Cultivated. Seed.
- PI 550810 **donor id:** ZA 160. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93376. Cultivated. Seed.
- PI 550811 **donor id:** ZA 161. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93377. Cultivated. Seed.

PI 550741 to 550877-continued

- PI 550812 **donor id:** ZA 162. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93378. Cultivated. Seed.
- PI 550813 **donor id:** ZA 163. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93380. Cultivated. Seed.
- PI 550814 **donor id:** ZA 164. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93381. Cultivated. Seed.
- PI 550815 **donor id:** ZA 165. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93382. Cultivated. Seed.
- PI 550816 **donor id:** ZA 166. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93383. Cultivated. Seed.
- PI 550817 **donor id:** ZA 167. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93384. Cultivated. Seed.
- PI 550818 **donor id:** ZA 168. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93385. Cultivated. Seed.
- PI 550819 **donor id:** ZA 169. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93387. Cultivated. Seed.
- PI 550820 **donor id:** ZA 170. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93391. Cultivated. Seed.
- PI 550821 **donor id:** ZA 171. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93392. Cultivated. Seed.
- PI 550822 **donor id:** ZA 172. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93393. Cultivated. Seed.
- PI 550823 **donor id:** ZA 156. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93371. Cultivated. Seed.
- PI 550824 **donor id:** ZA 157. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93373. Cultivated. Seed.

PI 550741 to 550877-continued

- PI 550825 **donor id:** ZA 173. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93394. Cultivated. Seed.
- PI 550826 **donor id:** ZA 174. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93395. Cultivated. Seed.
- PI 550827 **donor id:** ZA 175. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93398. Cultivated. Seed.
- PI 550828 **donor id:** ZA 176. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93400. Cultivated. Seed.
- PI 550829 **donor id:** ZA 177. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93403. Cultivated. Seed.
- PI 550830 **donor id:** ZA 178. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93404. Cultivated. Seed.
- PI 550831 **donor id:** ZA 179. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93407. Cultivated. Seed.
- PI 550832 **donor id:** ZA 180. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93409. Cultivated. Seed.
- PI 550833 **donor id:** ZA 181. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93411. Cultivated. Seed.
- PI 550834 **donor id:** ZA 182. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93413. Cultivated. Seed.
- PI 550835 **donor id:** ZA 183. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93417. Cultivated. Seed.
- PI 550836 **donor id:** ZA 184. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93420. Cultivated. Seed.
- PI 550837 **donor id:** ZA 185. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93422. Cultivated. Seed.

PI 550741 to 550877-continued

- PI 550838 **donor id:** ZA 186. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93423. Cultivated. Seed.
- PI 550839 **donor id:** ZA 187. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93425. Cultivated. Seed.
- PI 550840 **donor id:** ZA 188. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93426. Cultivated. Seed.
- PI 550841 **donor id:** ZA 189. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93427. Cultivated. Seed.
- PI 550842 **donor id:** ZA 190. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93428. Cultivated. Seed.
- PI 550843 **donor id:** ZA 191. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93430. Cultivated. Seed.
- PI 550844 **donor id:** ZA 192. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93431. Cultivated. Seed.
- PI 550845 **donor id:** ZA 193. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93433. Cultivated. Seed.
- PI 550846 **donor id:** ZA 196. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93439. Cultivated. Seed.
- PI 550847 **donor id:** ZA 197. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93441. Cultivated. Seed.
- PI 550848 **donor id:** ZA 198. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93442. Cultivated. Seed.
- PI 550849 **donor id:** ZA 199. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93443. Cultivated. Seed.
- PI 550850 **donor id:** ZA 200. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93447. Cultivated. Seed.

PI 550741 to 550877-continued

- PI 550851 **donor id:** ZA 201. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93448. Cultivated. Seed.
- PI 550852 **donor id:** ZA 202. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93453. Cultivated. Seed.
- PI 550853 **donor id:** ZA 203. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93455. Cultivated. Seed.
- PI 550854 **donor id:** ZA 204. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93456. Cultivated. Seed.
- PI 550855 **donor id:** ZA 205. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93457. Cultivated. Seed.
- PI 550856 **donor id:** ZA 206. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93461. Cultivated. Seed.
- PI 550857 **donor id:** ZA 207. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93470. Cultivated. Seed.
- PI 550858 **donor id:** ZA 209. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93472. Cultivated. Seed.
- PI 550859 **donor id:** ZA 211. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93560. Cultivated. Seed.
- PI 550860 **donor id:** ZA 212. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93561. Cultivated. Seed.
- PI 550861 **donor id:** ZA 213. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93562. Cultivated. Seed.
- PI 550862 **donor id:** ZA 214. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93563. Cultivated. Seed.
- PI 550863 **donor id:** ZA 215. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93564. Cultivated. Seed.

PI 550741 to 550877-continued

- PI 550864 **donor id:** ZA 216. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93565. Cultivated. Seed.
- PI 550865 **donor id:** ZA 217. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93566. Cultivated. Seed.
- PI 550866 **donor id:** ZA 218. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93567. Cultivated. Seed.
- PI 550867 **donor id:** ZA 219. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93568. Cultivated. Seed.
- PI 550868 **donor id:** ZA 220. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93617. Cultivated. Seed.
- PI 550869 **donor id:** ZA 194. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93434. Cultivated. Seed.
- PI 550870 **donor id:** ZA 195. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93437. Cultivated. Seed.
- PI 550871 **donor id:** ZA 225. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93622. Cultivated. Seed.
- PI 550872 **donor id:** ZA 228. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93625. Cultivated. Seed.
- PI 550873 **donor id:** ZA 229. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93626. Cultivated. Seed.
- PI 550874 **donor id:** ZA 230. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93627. Cultivated. Seed.
- PI 550875 **donor id:** ZA 234. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93631. Cultivated. Seed.
- PI 550876 **donor id:** ZA 236. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93633. Cultivated. Seed.

PI 550741 to 550877-continued

PI 550877 **donor id:** ZA 238. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 93852. Cultivated. Seed.

PI 550878 to 550880. Sorghum x drummondii (Nees ex Steudel) Millsp. &
Chase POACEAE Sudangrass

Donated by: Maunder, B., DeKalb Agricultural Research, Inc., Texas,
United States. **remarks:** Received through R.R. Duncan, Georgia Agr.
Exp. Sta., University of Georgia, Griffin, Georgia. Received April
15, 1991.

PI 550878 **donor id:** ZA 60. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 90949. Cultivated. Seed.

PI 550879 **donor id:** ZA 61. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 90956. Cultivated. Seed.

PI 550880 **donor id:** ZA 239. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 94531. Cultivated. Seed.

PI 550881 to 550898. Pennisetum glaucum (L.) R. Br. POACEAE Pearl
millet

Donated by: Maunder, B., DeKalb Agricultural Research, Inc., Texas,
United States. **remarks:** Received through R.R. Duncan, Georgia Agr.
Exp. Sta., University of Georgia, Griffin, Georgia. Received April
15, 1991.

PI 550881 **donor id:** ZA 59. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 90608. Cultivated. Seed.

PI 550882 **donor id:** ZA 63. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 90966. Cultivated. Seed.

PI 550883 **donor id:** ZA 66. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 90970. Cultivated. Seed.

PI 550884 **donor id:** ZA 72. **origin:** Italy. **origin institute:**
Istituto del Germplasma-CNR, Villa Amendola 165A, Bari
20126. **origin institute id:** 90977. Cultivated. Seed.

PI 550881 to 550898-continued

- PI 550885 **donor id:** ZA 75. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90981. Cultivated. Seed.
- PI 550886 **donor id:** ZA 77. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90983. Cultivated. Seed.
- PI 550887 **donor id:** ZA 78. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90986. Cultivated. Seed.
- PI 550888 **donor id:** ZA 79. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90987. Cultivated. Seed.
- PI 550889 **donor id:** ZA 81. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90991. Cultivated. Seed.
- PI 550890 **donor id:** ZA 82. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90992. Cultivated. Seed.
- PI 550891 **donor id:** ZA 83. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90994. Cultivated. Seed.
- PI 550892 **donor id:** ZA 67. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90971. Cultivated. Seed.
- PI 550893 **donor id:** ZA 84. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 90996. Cultivated. Seed.
- PI 550894 **donor id:** ZA 88. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 91005. Cultivated. Seed.
- PI 550895 **donor id:** ZA 90. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 91008. Cultivated. Seed.
- PI 550896 **donor id:** ZA 92. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 91011. Cultivated. Seed.
- PI 550897 **donor id:** ZA 93. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 91012. Cultivated. Seed.

PI 550881 to 550898-continued

PI 550898 **donor id:** ZA 235. **origin:** Italy. **origin institute:** Istituto del Germplasma-CNR, Villa Amendola 165A, Bari 20126. **origin institute id:** 93632. Cultivated. Seed.

PI 550899 to 550925. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Everett, L.A., IITA-NCRE Project, IRA Bambui Station, Bamenda, Cameroon. Received April 22, 1991.

PI 550899 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89223. **pedigree:** MSR Population (IITA). **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to *E. turcicum* and *P. sorghi*. Annual. Breeding Material. Seed.

PI 550900 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89274. **pedigree:** (Kit2 x MSR) Kit2. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to *E. turcicum* and *P. sorghi*. Annual. Breeding Material. Seed.

PI 550901 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 88091. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to *E. turcicum* and *P. sorghi*. Annual. Breeding Material. Seed.

PI 550902 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 88098. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to *E. turcicum* and *P. sorghi*. Annual. Breeding Material. Seed.

PI 550903 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89199. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to *E. turcicum* and *P. sorghi*. Annual. Breeding Material. Seed.

PI 550904 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89207. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to *E. turcicum* and *P. sorghi*. Annual. Breeding Material. Seed.

PI 550899 to 550925-continued

- PI 550905 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89246. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550906 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89248. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550907 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89258. **pedigree:** H625/Z10. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550908 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89260. **pedigree:** H625/Z10. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550909 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89291. **pedigree:** (ZS206/MSR) ZS206. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550910 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89293. **pedigree:** (ZS206/MSR) ZS206. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550911 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89302. **pedigree:** (H625/Z10) Z10. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.

PI 550899 to 550925-continued

- PI 550912 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89310. **pedigree:** (ZS206/Z10) ZS206. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550913 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 88099. **pedigree:** MSR/East Af. Hybrids. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550914 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89242. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550915 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89299. **pedigree:** (H625/Z10) H625. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550916 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 89311. **pedigree:** M122/Z100. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550917 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 88094. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550918 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 88069. **pedigree:** ZS206/MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.

PI 550899 to 550925-continued

- PI 550919 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 88030. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550920 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 87014. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550921 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 87366. **pedigree:** Population 32, CIMMYT. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550922 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** 87036. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550923 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** C70. **pedigree:** Commercial Hybs/SR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550924 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** Z28. **pedigree:** Zambia grp/SR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.
- PI 550925 **origin:** Cameroon. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda. **cultivar:** M131. **pedigree:** MSR. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Resistance to E. turcicum and P. sorghi. Annual. Breeding Material. Seed.

PI 550926 to 550929. Zea mays L. subsp. mays POACEAE Corn

Donated by: Agricultural Research Service -- USDA, Tropical Agriculture Research Station, P.O. Box 70, Mayaguez, Puerto Rico. Received May 07, 1991.

- PI 550926 **origin:** Puerto Rico. **cultivar:** PUERTO RICO DIENTE DE CABALLO(R)C3. **remarks:** Local dent type cultivar. Primary trait for selection was increased yield with secondary selection for root and stalk lodging. Also selected for improved disease tolerance especially major endemic tropical diseases including southern corn rust (*Puccinia polysora*), southern corn leaf spot (*Helminthosporium maydis* Race O), Northern corn leaf spot (*H. turcicum*), corn ear smut (*Ustilago maydis*),. Breeding Material. Seed.
- PI 550927 **origin:** Puerto Rico. **cultivar:** PUERTO RICO MAYORBELA(R)C3. **pedigree:** From OhS5 and OhS6 consisting of primarily 50% Corn Belt germplasm and 50% exotic material. **remarks:** Dent type population. Primary trait for selection was increased yield with secondary selection for root and stalk lodging. Also selected for improved disease tolerance especially major endemic tropical diseases including southern corn rust (*Puccinia polysora*), southern corn leaf spot (*Helminthosporium maydis* Race O), Northern corn leaf spot (*H. turcicum*), corn ear smut (*Ustilago maydis*),. Breeding Material. Seed.
- PI 550928 **origin:** Puerto Rico. **cultivar:** PUERTO RICO OHIOS9(R)C3. **pedigree:** From OhS7 and OhS8 consisting of primarily 50% Corn Belt germplasm and 50% exotic material. **remarks:** Dent type population. Primary trait for selection was increased yield with secondary selection for root and stalk lodging. Also selected for improved disease tolerance especially major endemic tropical diseases including southern corn rust (*Puccinia polysora*), southern corn leaf spot (*Helminthosporium maydis* Race O), Northern corn leaf spot (*H. turcicum*), corn ear smut (*Ustilago maydis*),. Breeding Material. Seed.
- PI 550929 **origin:** Puerto Rico. **cultivar:** PUERTO RICO OHIOS10(R)C3. **remarks:** Local yellow flint type cultivar. Primary trait for selection was increased yield with secondary selection for root and stalk lodging. Also selected for improved disease tolerance especially major endemic tropical diseases including southern corn rust (*Puccinia polysora*), southern corn leaf spot (*Helminthosporium maydis* Race O), Northern corn leaf spot (*H. turcicum*), corn ear smut. Breeding Material. Seed.

PI 550930. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Dwivedi, S.L., ICRISAT, Legumes Program, Patancheru P.O., Andhra Pradesh, India. **remarks:** ICGV 87187, Groundnut. Received June 30, 1991.

origin: India. **historical origin:** India. **origin institute:** ICRISAT, Legumes Program, Patancheru P.O., Andhra Pradesh 502 324. **cultivar:** ICGV 87187. **pedigree:** (Robut 33-1)-1-1-B1-B1-B1-B1-B1. **other id:** CV-45. **source:** Crop Sci. 32(1):278 1992. **group:** CSR-PEANUT. **other id:** ICGS 37. **remarks:** Decumbent 2 to decumbent 3 growth habit. Flowering sequential. Pods mainly two seeded, medium sized. Seeds tan colored. Meat 70%. Maturity 110-120 days. Seeds contain 48% oil and 23% protein. Tolerant of end-of-season drought. Field resistance to bud necrosis disease. Insensitive to photoperiod. Tolerant to peanut mottle virus under artificial inoculation in the field. Spring Annual. Cultivar. Seed.

Scientific Name Cross Reference

Abelmoschus esculentus	548700, 549154-549156	546765	
Abelmoschus sp.	549152-549153	Aeschynomene purpusii	546766- 546767
Aeschynomene abyssinica	546540- 546547	Aeschynomene racemosa	546768
Aeschynomene acapulcensis	546548	Aeschynomene rehmannii	546769
Aeschynomene afraspera	546556	Aeschynomene rudis	546549, 546770-546776
Aeschynomene amorphoides	546557-546559	Aeschynomene scabra	546777- 546782
Aeschynomene aspera	546560	Aeschynomene schimperi	546783- 546789
Aeschynomene bracteosa	546561	Aeschynomene sensitiva	546790- 546822
Aeschynomene brasiliana	546562- 546619	Aeschynomene sp.	546823-546877
Aeschynomene brevifolia	546620	Aeschynomene tambacoundensis	546878
Aeschynomene brevipes	546621	Aeschynomene uniflora	546879- 546881
Aeschynomene ciliata	546622- 546625	Aeschynomene villosa	546550- 546555,546882-546935
Aeschynomene compacta	546626- 546634	Aeschynomene viscidula	546936- 546938
Aeschynomene denticulata	546635-546638	Agropyron cristatum	547269- 547286,547346-547351
Aeschynomene elaphroxylon	546639	Agropyron cristatum	subsp. cristatum
Aeschynomene elegans	546640- 546661	Agropyron cristatum	subsp. pectinatum
Aeschynomene evenia	546662- 546672	Agropyron desertorum	547288- 547296
Aeschynomene falcata	546673- 546681	Agropyron fragile	547297- 547302,547370
Aeschynomene fascicularis	546682-546684	Agropyron hybrid	547324-547325, 549119
Aeschynomene filosa	546685- 546686	Allium cepa	546477,548814, 548824
Aeschynomene fluitans	546687- 546689	Amaranthus graecizans	549157
Aeschynomene fluminensis	546690-546692	Amaranthus sp.	549158
Aeschynomene foliolosa	546693- 546696	Apium graveolens	550703
Aeschynomene histrix	546697- 546732	Arachis hypogaea	549117,550688, 550721,550930
Aeschynomene indica	546733	Arachis hypogaea	subsp. hypogaea
Aeschynomene leptophylla	546734	Artemisia ludoviciana	546372
Aeschynomene mimosifolia	546735	Artemisia tridentata	546371
Aeschynomene mollicula	546736	Australopyrum retrofractum	547363
Aeschynomene nivea	546737- 546738	Avena sativa	546349,546363, 546467,547258,548072-548093, 548769,548833,549113
Aeschynomene paniculata	546739- 546761	Befaria aestuans	548848-548849
Aeschynomene pfundii	546762	Befaria resinosa	548850
Aeschynomene pinetorum	546763	Beta corolliflora	546495- 546496
Aeschynomene pratensis	546764-		

Beta macrorhiza	546497-546498	547360		
Beta trigyna	546501-546502	Elymus caninus	547304-547306, 547376	
Beta vulgaris	546499,546503- 546507,546535-546539	Elymus ciliaris	subsp. amurensis	547303
Beta vulgaris subsp. maritima	546376-546447,546508-546534, 550718	Elymus coreanus	547364	
Beta vulgaris subsp. patula	546456-546458	Elymus dahuricus	547307,547352- 547353	
Beta vulgaris var. macrocarpa	546448-546455,546500	Elymus fedtschenkoi	547308	
Bomarea sp.	548851	Elymus fibrosus	547320	
Brassica juncea	549282	Elymus glaucus	547362	
Brassica napus	546468-546471, 548828,548842,549101-549102	Elymus gmelinii	547366	
Brassica napus var. oleifera	547111-547113	Elymus lanceolatus	547377	
Bromus inermis	547400,547903	Elymus lanceolatus	subsp. lanceolatus	547115- 547119
Bromus tomentellus	547385- 547386	Elymus mutabilis	547375	
Bromus tomentosus	547383- 547384	Elymus nutans	547394	
Buchloe dactyloides	547091- 547092	Elymus pendulinus	547309, 547379	
Camellia hybrid	546366-546368, 547259-547261	Elymus sp.	547310	
Capsicum annum	547069,548810, 548829,550698-550700,550737	Elymus trachycaulus	547321, 547368-547369	
Carthamus tinctorius	548813	Elymus trachycaulus	subsp. subsecundus	547373
Cavendishia bracteata	548852- 548854	Elymus transhyrcanus	547372	
Cavendishia sp.	548856	Elymus tschimganicus	547371	
Cavendishia tarapotana	var. tarapotana	Elymus uralensis	547365	
	548855	Elytrigia batalinii	547361	
Ceratostema lanigerum	548857	Elytrigia caespitosa	547311	
Ceratostema reginaldii	548858	Elytrigia elongata	547326	
Cicer arietinum	548067	Elytrigia geniculata	subsp. pruinifera	547374
Citrullus lanatus	547106, 549159-549163	Elytrigia intermedia	547314- 547319,547332-547338	
Cleome lutea	546369	Elytrigia juncea	547327-547330	
Cucurbita moschata	548967, 550689-550694	Elytrigia nodosa	547344-547345	
Cyamopsis tetragonoloba	547070, 549164	Elytrigia pontica	547312- 547313	
Cynodon dactylon	547108-547109	Elytrigia pungens	subsp. campestris	547268
Dactylis glomerata	547380- 547382	Elytrigia repens	547339-547340	
Dianthus plumarius	549166	Elytrigia spicata	547151- 547162	
Disterigma alaternoides	548859	Festuca arundinacea	547071- 547072,547085,547098-547099, 547114,547396-547397,548795- 548796,548811-548812,548840, 548843,549103,549115,550704, 550709	
Disterigma empetrifolium	548860	Festuca longifolia	548826	
Disterigma pentandrum	548861	Festuca ovina	547398-547399, 549274	
Disterigma popenoi	548862	Festuca rubra	547391	
Disterigma sp.	548863-548864	Festuca rubra subsp. commutata	548837,549269	
Eleusine coracana	546955- 546956	Fragaria vesca	548865-548866	
Elymus canadensis	547358-			

Gaultheria amoena	548867	Helianthus strumosus	547212,
Gaultheria erecta	548868-		547214-547223, 547225-547226
548870		Helianthus tuberosus	547227-
Gaultheria glomerata	548871		547233, 547235-547238, 547240,
Gaultheria reticulata	548872		547243-547248
Gaultheria strigosa	548874	Hordelymus europaeus	547378
Gaultheria tomentosa	548873	Hordeum brachyantherum	547341,
Glycine canescens	546959-		547395
546960		Hordeum parodii	547367
Glycine clandestina	546961-	Hordeum vulgare	547163, 547251-
546968			547257, 547902, 548094-548112,
Glycine latifolia	546969-		548702-548768, 548823, 549081
546972		Humulus lupulus	546940-546954
Glycine max	546373-546375,	Ipomoea coptica	549255
	546480, 546487, 547094, 547402-	Ipomoea cynanchifolia	549093
	547896, 548158-548698, 548773-	Ipomoea diamantinensis	549256
	548782, 548834-548835, 548969-	Ipomoea ochracea	549257
	548991, 549017-549031, 549049-	Ipomoea pes-tigridis	549258
	549080, 549098-549099, 549112,	Ipomoea plebeia	549259
	550728-550736, 550738-550740	Juniperus virginiana	548948-
Glycine microphylla	546973-		548963
546974		Lactuca sativa	546474-546475,
Glycine soja	549032-549048		547105, 549100
Glycine tabacina	546975-547034	Lens culinaris	547037-547039
Glycine tomentella	546957-	Leucaena collinsii	549283-
546958			549295
Gossypium hirsutum	547084,	Leucaena diversifolia	549085-
	548817-548818, 548821-548822,		549086, 549296-549323
	548836, 549095, 549136-549151,	Leucaena esculenta	549087,
	550702		549324-549327
Helianthus aff. hirsutus		Leucaena greggii	549328-549334
	547203	Leucaena hybrid	549335-549337
Helianthus aff. maximiliani		Leucaena lanceolata	549338-
	547206, 547208		549345
Helianthus aff. pauciflorus		Leucaena leucocephala	549083-
	547211		549084, 549346-549420
Helianthus aff. strumosus		Leucaena macrophylla	549421-
	547213, 547224		549422
Helianthus aff. tuberosus		Leucaena pallida	549423-549427
	547234, 547239, 547241-547242	Leucaena pulverulenta	549428-
Helianthus annuus	546351-		549430
	546361, 547165-547168, 548995-	Leucaena retusa	549431-549432
	549016	Leucaena shannonii	
Helianthus decapetalus	547169-	subsp. salvadorensis	549433
	547170	Leucaena shannonii	
Helianthus divaricatus	547171-	subsp. shannonii	549434-
	547174		549443
Helianthus giganteus	547175-	Leucaena sp.	549082, 549088,
	547184		549444-549445
Helianthus grosseserratus		Leucaena trichodes	549446
	547185-547202	Leymus ambiguus	547331
Helianthus hirsutus	547204	Leymus angustus	547354-547357
Helianthus maximiliani	547205,	Leymus cinereus	547342-547343
	547207	Leymus hybrid	547120-547121
Helianthus mollis	547209	Linum usitatissimum	549260-
Helianthus petiolaris	547210,		549264
	549165	Lolium multiflorum	547110

Lolium perenne	546472,547078, 547083,547104,547390,549096, 549111	Poa pratensis	548831-548832, 548841,549116
Lotus corniculatus	547080	Psammisia coarctata	548882
Lycopersicon esculentum	546492, 547073-547077,548827	Psammisia ecuadorensis	548883
Macleania bullata	548876	Psammisia ferruginea	548884
Macleania coccoloboides	548875	Psammisia sodiroi	548885
Macleania ecuadorensis	548877	Psammisia ulbrichiana	548886
Macleania loeseneriana	548878	Psathyrostachys juncea	549118
Macleania rupestris	548879- 548880	Raphanus sativus	546476
Macleania salapa	548881	Ribes lehmannii	548887
Matthiola incana	546486	Rubus acanthophyllos	548888
Medicago hybrid	549270-549273	Rubus adenothallus	548889- 548890
Medicago sativa	547043-547067, 547906,548699,549097,549104- 549108,550722-550724	Rubus bogotensis	548891-548895
Melilotus albus	549120-549135, 550727	Rubus coriaceus	548896-548899
Mimosa strigillosa	548994	Rubus ellipticus	548900
Myrica pensylvanica	548964- 548966	Rubus glabratus	548901-548903
Nicotiana tabacum	547904, 548825,549109-549110	Rubus glaucus	548904-548907
Oryza glaberrima	548068-548071	Rubus macrocarpus	548908- 548910
Oryza sativa	546364-546365, 547249,548770-548772,548809, 549114,549215-549254	Rubus niveus	548911
Oryzopsis hymenoides	547122- 547150	Rubus robustus	548912-548915
Panicum miliaceum	549266- 549268	Rubus roseus	548916-548921
Panicum virgatum	549094	Rubus sp.	548922-548930
Paspalum dilatatum		Rubus urticifolius	548931- 548933
var. pauciciliatum	548066	Saccharum hybrid	550575,550720
Pennisetum glaucum	547035- 547036,548968,550881-550898	Sesamum indicum	549265
Perilla sp.	546459-546460	Sorghum bicolor	546350,547907- 548065,548797,549167-549211, 550577-550687,550725,550741- 550877
Phalaris aquatica	547392- 547393	Sorghum x drummondii	550878- 550880
Phalaris arundinacea	547387	Stipa barbata	547389
Phaseolus acutifolius	549447	Stipa lagascae	547401
Phaseolus coccineus	549448- 549452	Themistoclesia cutucuensis	548934
Phaseolus lunatus	549453- 549524	Trifolium ambiguum	547897- 547899
Phaseolus vulgaris	546473, 546488-546491,547042,548701, 548815-548816,549089-549091, 549525-550439,550701,550708, 550717	Trifolium hybrid	546493
Phyllostachys aureosulcata	546939	Trifolium medium	547905,549092
Pisum sativum	547093,550705- 550707	Triticum aestivum	546461, 546478,547040-547041,547081- 547082,547096-547097,547250, 547262-547267,547900-547901, 548113-548157,548844-548847, 549275-549278,550696-550697
Poa bulbosa	547388	Triticum durum	546462-546466, 547095,548992-548993
		Triticum turgidum	546362
		Vaccinium crenatum	548935- 548936
		Vaccinium floribundum	548937- 548947
		Vicia villosa subsp. varia	547068

Vigna unguiculata	548784-
548785,550726	
X Triticosecale sp.	546479,
547079,547164,550576	
X Tritordeum sp.	550710-550716
Zea mays subsp. mays	546481-
546485,546494,547086-547090,	
547100-547103,547107,548783,	
548786-548794,548798-548808,	
548820,548830,548838-548839,	
549212-549214,549279-549281,	
550440-550574,550695,550719,	
550899-550929	
Zinnia angustifolia	548819

Common Name Cross Reference

Alfalfa	547043-547067, 547906, 548699, 549097, 549104-549108, 549270-549273, 550722-550724	Field bean	546473
Altai wildgrass	547354-547357	Finger millet	546955-546956
Amaranthus	549157-549158	Flax	549260-549264
Annual ryegrass	547110	Garden bean	548815, 550701, 550708
Bamboo	546939	Garden pea	547093
Barley	547163, 547251-547257, 547902, 548094-548112, 548702- 548768, 548823, 549081	Guar	547070, 549164
Basin wildrye	547342-547343	Hard fescue	548826
Bayberry	548964-548966	Herbacous mimosa	548994
Bean	546488-546491, 547042, 549525-550439, 550717	Hop	546940-546949
Bermudagrass	547108-547109	Hops	546950-546954
Birdsfoot trefoil	547080	Indian ricegrass	547122-547150
Black bean	549091	Intermediate wheatgrass	547314- 547319, 547332-547338
Blackberry	548904-548907	Jalapeno pepper	548829
Blueberry	548935-548936	Jumbie bean	549083-549084
Bluegrass	548831-548832	Juniper	548948-548963
Buffalograss	547091-547092	Kansas sunflower	549165
Bulbous bluegrass	547388	Kentucky bluegrass	548841, 549116
Bulbous canarygrass	547392- 547393	Kidney bean	549090
Canada wildrye	547358-547360	Kura clover	547897-547899
Celery	550703	Lentil	547037-547039
Chewings fescue	548837	Lettuce	546474-546475, 547105, 549100
Chickpea	548067	Leucaena	549335-549337
Chili pepper	547069	Lima bean	549453-549524
Common oat	546349, 547258, 548769, 548833, 549113	Louisiana sage	546370
Common wheat	546461, 546478, 547040-547041, 547081-547082, 547096-547097, 547262-547267, 547900-547901, 548844-548847, 549275-549278, 550696-550697	Milo sorghum	546350
Corn	546481-546485, 546494, 547086-547090, 547100-547103, 547107, 548783, 548786-548794, 548798-548808, 548820, 548830, 548838-548839, 549212-549214, 549279-549281, 550440-550574, 550695, 550719, 550899-550929	Mountain big sagebrush	546371
Cotton	547084, 548817-548818, 548821-548822, 548836, 549095, 550702	Mustard	549282
Cowpea	548784-548785	Navy bean	548701
Cranberry bean	549089	Oat	548072-548093
Dry bean	548816	Okra	548700, 549154-549156
Durum wheat	546362, 548992- 548993	Onion	546477, 548814, 548824
Fairway Crested Wheatgrass	547347-547351	Orchardgrass	547380-547382
Fairway crested wheatgrass	547269-547286, 547346	Pea	550705-550707
		Peanut	546372, 549117, 550688, 550721, 550930
		Pearl millet	547035-547036, 548968, 550881-550898
		Pepper	548810, 550698-550700, 550737
		Perennial ryegrass	546472, 547078, 547083, 547104, 547390, 549096, 549111
		Perennial soybean	546957- 547034
		Potato	549093
		Proso millet	549266-549268
		Quackgrass	547339-547340
		Radish	546476
		Rape	546468-546471, 547111- 547113, 548828, 548842, 549101- 549102

Raspberry 548900, 548911
 Reed canarygrass 547387
 Rice 546364-546365, 547249,
 548770-548772, 548809, 549114,
 549215-549254
 Russian wildrye 549118
 Safflower 548813
 Salal 548867-548874
 Scarlet runner bean 549448-
 549452
 Sesame 549265
 Sheep fescue 547398-547399,
 549274
 Siberian wheatgrass 547370
 Slender wheatgrass 547321,
 547368-547369
 Smooth brome grass 547400,
 547903
 Sorghum 547907-548065, 548797,
 549167-549211, 550577-550687,
 550725, 550741-550877
 Soybean 546373-546375, 546480,
 546487, 547094, 547402-547896,
 548158-548698, 548773-548782,
 548834-548835, 548969-548991,
 549017-549080, 549098-549099,
 549112, 550728-550736, 550738-
 550740
 Spring oat 546363
 Squash 548967, 550689-550694
 Standard crested wheatgrass
 547288-547296
 Stock 546486
 Strawberry 548865
 Sudangrass 550878-550880
 Sugarbeet 546495-546539
 Sugarcane 550575, 550720
 Sunflower 546351-546361, 547165-
 547168, 548995-549016
 Sweetclover 549120-549135
 Switchgrass 549094
 Tall fescue 547071-547072,
 547085, 547114, 547396-547397,
 548795-548796, 548811-548812,
 548840, 548843, 549103, 549115,
 550704, 550709
 Tall wheatgrass 547326
 Tobacco 547904, 548825, 549109-
 549110
 Tomato 546492, 547073-547077,
 548827
 Triticale 546479, 547079, 547164,
 550576
 Upland cotton 549136-549151
 Vetch 547068
 Watermelon 547106, 549159-
 549163

Wheat 547250, 548113-548157
 Wheatgrass 547327-547330
 White sweetclover 550727
 Zigzag clover 547905, 549092
 Zinnia 548819

Acronyms

For space conservation and consistency in identifying locations, the following acronyms have been used in Plant Inventory 200:

- AVRDC - Asian Vegetable Research and Development Center (Taiwan)
- CIMMYT - Centro Internacional de Mejoramiento de Maiz y Trigo (Mexico)
- CIAT - Centro Internacional de Agricultura Tropical (Colombia)
- CSIRO - Commonwealth Scientific and Industrial Research Organization (Australia)
- EMBRAPA - Empresa Brasileira de Pesquisas Agropecuarias
- CENARGEN - Centro Nacional de Recursos Geneticos (Brazil)
- IBPGR - International Board for Plant Genetic Resources (Italy)
- ICARDA - International Center for Agricultural Research in the Dry Areas (Syria)
- ICRISAT - International Crops Research Institute for the Semi-Arid Tropics
- IFAS - Institute of Food and Agricultural Science (USA)
- IFOGU - Institut fur Obstbau und Gemusebau (Germany)
- INRA - Institut National de la Recherche Agronomique (France)
- IITA - International Institute of Tropical Agriculture (Nigeria)
- IPPQ - Institute for Plant Production and Qualification (Hungary)
- ORSTOM - Office de la recherche scientifique et technique d'outre mer (France)
- PGQO - Plant Germplasm Quarantine Office (USA)
- USDA-ARS - U.S. Department of Agriculture, Agricultural Research Service (USA)
- USDA-SCS - U.S. Department of Agriculture, Soil Conservation Service (USA)
- VIR - N.I. Vavilov Institute of Plant Industry (USSR)