Plant Inventory
No. 200, Part I

Plant Materials Introduced
January 1 to April 31, 1991
(Nos. 546349 to 550930)
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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ARS has no additional copies for free distribution.
PI 546349. Avena sativa L. POACEAE Common oat


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


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 546359  

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


PI 546363. Avena sativa L. POACEAE Spring oat


PI 546364. Oryza sativa L. POACEAE Rice

PI 546364-continued

origin: United States.  
cultivar: DELLMONT.  
pedigree: Della-X2/Lemont*5.  

PI 546365. Oryza sativa L. POACEAE Rice


origin: United States.  
cultivar: ROSEMONT.  
pedigree: CI9881/PI331581//L201.  

PI 546366 to 546368. Camellia hybrid THEACEAE


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, 10 cm long, 4.5 cm wide and crenate to serrate margins. Flowers anemone, white, 9 cm 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.

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


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

PI 546373-continued


cultivar: Hobbit 87. pedigree: Hobbit(6) x Williams 82.
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 isoline of Hobbit with RPSlk 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.


cultivar: Sprite 87. pedigree: Sprite (7) x Williams 82
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 isoline of Sprite with RPSlk 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..

PI 546375-continued


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 546383 origin: UNKNOWN. other id: Ames 4193. other id: WB 29. received as: Beta maritima. Annual. Wild. Seed.
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.

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 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 546409 origin: United Kingdom. pedigree: Composite of bulk plantings of SP 653006-0 aqnd SP 653007-0. other id: Ames 4251. other id: WB 185. locality: Torpoint, Tamar. received as: Beta maritima. Biennial. 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 546432 origin: India. other id: Ames 4259. other id: WB 275. 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 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 546445  
**origin:** Greece.  
**collected:** 1979.  
**other id:** Ames 4239.  
**other id:** WB 317.  
**other id:** Kalymnas 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. macracarpa.  
other id: Ames 4205.  
other id: WB 157.  
remarks: 2n = 18.  
received as: Beta macracarpa.  
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 546467. Avena sativa L. POACEAE

PI 546467-continued


PI 546468. Brassica napus L. BRASSICACEAE Rape


PI 546469. Brassica napus L. BRASSICACEAE Rape


PI 546470. Brassica napus L. BRASSICACEAE Rape


PI 546471. Brassica napus L. BRASSICACEAE Rape

PI 546471-continued


PI 546472. Lolium perenne L. POACEAE Perennial ryegrass


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


PI 546475. Lactuca sativa L. ASTERACEAE Lettuce


PI 546476. Raphanus sativus L. BRASSICACEAE Radish

PI 546476-continued


PI 546477. Allium cepa L. LILIACEAE Onion


PI 546478. Triticum aestivum L. POACEAE Common wheat

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


PI 546479. X Triticosecale sp. POACEAE Triticale

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


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

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


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: FBLL. 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.

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.

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

PI 546486-continued

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.


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


PI 546493. Trifolium hybrid FABACEAE


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.

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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, Aragats 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.

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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 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.


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

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


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 to 546502-continued


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

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


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 546513  donor id: S12/81.  origin: Italy.  other id: WB 774.  

PI 546514  donor id: S21/81.  origin: Italy.  other id: WB 775.  

PI 546515  donor id: 001/81.  origin: Greece.  other id: WB 776.  

PI 546516  donor id: 002/81.  origin: Greece.  other id: WB 777.  

PI 546517  donor id: 007/81.  origin: Greece.  other id: WB 778.  

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.

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.  

PI 546525  donor id: S19/81.  origin: Italy.  other id: WB 791.  

PI 546526  donor id: S25/81.  origin: Italy.  other id: WB 792.  

PI 546527  donor id: S28/81.  origin: Italy.  other id: WB 793.  
PI 546508 to 546534-continued

PI 546528 donor id: S54/81. origin: Italy. other id: WB 794.

PI 546529 donor id: S59/81. origin: Italy. other id: WB 795.

PI 546530 donor id: S96/81. origin: Italy. other id: WB 796.

PI 546531 donor id: S99/81. origin: Italy. other id: WB 797.

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

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: Zakinthos
(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: Zakinthos
(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 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.

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.

locality: 6km W of Tonalá, 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
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
locality: 25.6km E of Ciudad del Maiz, San Louis Potosi State. elevation: 1400m. remarks: Annual rainfall 1400mm. Received from University of Arizona. Wild. Seed.

PI 546552
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
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
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.


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 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.

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 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 Vercruz, 1 km from Gulf, Vercruz State. latitude: 18 deg. 41 min. N. longitude: 95 deg. 34 min. W. elevation: 70m. Wild. Seed.


PI 546603  donor id: 2790.  origin: Colombia.  collected: May 1978.  other id: CIAT 3127.  locality: Vichada State.  received as: A. brasili ana var. brasili ana. Wild. Seed.

PI 546604  donor id: 2792.  origin: Colombia.  collected: May 1978.  other id: CIAT 3142.  locality: Vichada State.  received as: A. brasili ana var. brasili ana. Wild. Seed.

PI 546605  donor id: 2801.  origin: Panama.  collected: May 1978.  other id: CIAT 7002.  locality: Cocle.  received as: A. brasili ana var. brasili ana. Wild. Seed.

PI 546606  donor id: 2802.  origin: Panama.  collected: May 1978.  other id: CIAT 7003.  locality: Cocle.  received as: A. brasili ana var. brasili ana. Wild. Seed.

PI 546607  donor id: 2806.  origin: Panama.  collected: May 1978.  other id: CIAT 7007.  locality: Los Santos State.  received as: A. brasili ana var. brasili ana. Wild. Seed.

PI 546608  donor id: 2810.  origin: Panama.  collected: May 1978.  other id: CIAT 7011.  locality: Herrera State.  received as: A. brasili ana var. brasili ana. Wild. Seed.

PI 546609  donor id: 2818.  origin: Panama.  collected: May 1978.  other id: CIAT 7020.  locality: Chiriqui State.  received as: A. brasili ana var. brasili ana. Wild. Seed.

PI 546610  donor id: 2820.  origin: Panama.  collected: May 1978.  other id: CIAT 7023.  locality: Chiriqui State.  received as: A. brasili ana var. brasili ana. 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. brasili ana var. brasili ana. Wild. Seed.

PI 546612  donor id: 2843.  origin: Venezuela.  collected: May 1978.  other id: CIAT 7391.  locality: Monagas State.  received as: A. brasili ana var. brasili ana. Wild. Seed.
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.

other id: CIAT 9673. locality: Mato Grosso State. received as: A. brasiliana var. brasiliana. Wild. Seed.

other id: CIAT 9676. locality: Mato Grosso State. received as: A. brasiliana var. brasiliana. Wild. Seed.

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.

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.

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 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 to 546634—continued


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 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.


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


other id: CIAT 9879.  locality: Choco State.  Wild.  
Seed.

other id: CIAT 9914.  locality: Choco State.  Wild.  
Seed.

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

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 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 to 546681-continued


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 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 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 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 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 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 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 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 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 gravelly 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: Veraguas 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 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 546733.  Aeschynomone 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.  Aeschynomone 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.


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.


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 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 to 546761-continued


PI 546739 to 546761-continued


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 546762. Aeschynomone 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


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.


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 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. **longitude:** 96 deg. 14 min. **W. elevation:** 1750m. **remarks:** Annual rainfall 606mm. Associated species: M. atropurpureum flowering (no seeds), M. gibbsifolium, Rhynchosis 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. **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

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, 

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 546783 to 546789. Aeschynomene schimperi 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 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 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 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, Cartago State. latitude: 9 deg. 49 min. N. longitude: 8 deg. 49 min. W. elevation: 1075m. remarks: Annual rainfall 2059mm. 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 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 546827. Aeschynomene sp. FABACEAE

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


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 546823 to 546877-continued


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 546872  donor id: 5222. origin: Mexico. collected: November 12, 1980. collector id: 5222. other id: MEX 1116. locality: 8km SW of Niltepce, 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 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 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.


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.


I 546879 to 546881-continued


I 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 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 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 546882 to 546935

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 Ochuc 
road to Ocosingo Hwy 199, Ochuc, 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 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 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 Seulitepec on road to Tejupilco, 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 Tejupilco on road to Temascaltepec, Tejupilco, 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 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  

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  

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  


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 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.
PI 546939-continued

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..  

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.  
group: CSR-HOP.  

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.  
group: CSR-HOP.  
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:**  

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:**  

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:**  
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.  
group: CSR-HOP.  

PI 546946  
origin: United States.  
origin institute: Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331.  
pedigree: 21397 x 21362M (4x Hallertauer m.f.x(Cascade x 65009-64035M).  
other id: GP-24.  
group: CSR-HOP.  

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.  
group: CSR-HOP.  
PI 546948  
origin: United States. origin institute: Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331.  
pedigree: 21397 x 21381M (4x Hallertauer m.f.x(Cascade x 65009-64035M).  
other id: GP-26.  
group: CSR-HOP.  

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.  
group: CSR-HOP.  

PI 546950 to 546954. Humulus lupulus L. CANNABACEAE Hops

remarks: Five Hop Germplasms For Hop Downy Mildew Research.  
Received January 31, 1991.

PI 546950  
cultivar: Phi.  
pedigree: Open pollinated seed from clone of Hersbrucker.  
other id: GP-28.  
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 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 

PI 546956 donor id: D005C. origin: Kenya. collector id: D005C. 
locality: Musoli village, Kabamega District, Western 
Province. remarks: Part of previous collection received 

PI 546957 to 546958. Glycine tomentella Hayata FABACEAE Perennial 
soybean

Donated by: Lawn, R.J., Division of Plant Industry, CSIRO, Canberra 

PI 546957 origin: Indonesia. collected: July 15, 1988. locality: 
Seed.

PI 546958 origin: Indonesia. collected: July 15, 1988. locality: 
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 

locality: Collected at Weetootla Gorge, 9km northwest of 
Balcanoona Headquarters, South Australia. latitude: 30 
degegr. 30 min. S. longitude: 139 deg. 15 min. E. 

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


PI 546961
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

PI 546963

PI 546964

PI 546965
locality: Collected at Drillhan Creek, Drillham, 20km west of Miles, Queensland. latitude: 26 deg. 36 min. S. longitude: 149 deg. 59 min. E. elevation: 350m. Perennial. Wild. Seed.

PI 546966
locality: Collected at Stuart River, 15km southwest of Kingaroy, Queensland. latitude: 26 deg. 36 min. S. longitude: 151 deg. 46 min. E. elevation: 300m. Perennial. Wild. Seed.

PI 546967
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
locality: Collected at Bunyeroo Creek, 47km southeast of Parachiina, 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

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.

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.

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.

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

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.

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


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.

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.

locality: Collected 0.7km east of Warra, 18.2km west of Macalister, Queensland. latitude: 26 deg. 56 min. S.
longitude: 150 deg. 55 min. E. elevation: 320m.
Perennial. Wild. Seed.

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.

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.

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.

locality: Collected at Glengarry, 11km east of Mjune, Queensland. latitude: 25 deg. 51 min. S.

locality: Collected at Mjune Creek, 1km west of Mjune, Queensland. latitude: 25 deg. 51 min. S.
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.

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.

locality: Collected near Nogoa River, 2km east of 
Emerald, Queensland.  latitude: 23 deg. 32 min. S. 
longitude: 148 deg. 01 min. E.  elevation: 180m. 
Perennial.  Wild.  Seed.

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. 

locality: Collected at Bedrie Creek, 80.8km southeast of 
Tambo, Queensland.  latitude: 25 deg. 30 min. S. 
longitude: 146 deg. 36 min. E.  elevation: 410m. 
Perennial.  Wild.  Seed.

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.

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.

locality: Collected at Kinnoule Creek, 16.9km west of 
Taroo, Queensland.  latitude: 25 deg. 41 min. S. 
longitude: 149 deg. 38 min. E.  elevation: 200m. 
Perennial.  Wild.  Seed.
PI 546975 to 547034—continued


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.

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.

locality: Collected at Jericho, Jordan River, town dam,
Queensland.  latitude: 23 deg. 36 min. S.  longitude: 146

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.

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.

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.

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.

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.
locality: Collected at Bungeworgorai Creek, 74.7km east of Mitchell, Queensland.  latitude: 26 deg. 36 min. S.

locality: Collected at Roma Airport, 2km north of Roma, Queensland.  latitude: 26 deg. 33 min. S.  longitude: 148

locality: Collected at Wallumbilla Creek, 39.2km east of Roma, Queensland.  latitude: 26 deg. 35 min. S.

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.

locality: Collected at Myall Creek, 46km north east of Dalby, Queensland.  latitude: 26 deg. 57 min. S.

locality: Collected at Wengen Creek, 11km west of Maidenwell, Queensland.  latitude: 26 deg. 50 min. S.

locality: Collected at Middle Creek, 3.2km west of Maidenwell, Queensland.  latitude: 26 deg. 50 min. S.

locality: Collected at Tingoora, 22.4km, north of Kingaroy, toward Murgon, Queensland.  latitude: 26 deg.


PI 547023  
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  
locality: Collected at Kinnowl Creek, 17km west of Tarroom, Queensland. latitude: 25 deg. 41 min. S. longitude: 149 deg. 38 min. E. elevation: 200m. Perennial. Wild. Seed.

PI 547025  
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  
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  
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  

PI 547029  

PI 547030  
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

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.

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.

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.

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 to 547036-continued


PI 547037 to 547039. Lens culinaris Medikus FABACEAE Lentil


PI 547039


PI 547040. Triticum aestivum L. POACEAE Common wheat


PI 547041. Triticum aestivum L. POACEAE Common wheat

PI 547041-continued


PI 547042. Phaseolus vulgaris L. FABACEAE Bean


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 Geçitli, 16km west of Hakkari or 8km east of Geçitli, 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 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:** 40 km 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, 78 km 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.  Primtiv-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, 88 km 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.  Primtiv-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, 35 km 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 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. Primtiv-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


PI 547072. Festuca arundinacea Schreber  POACEAE  Tall fescue


PI 547073. Lycopersicon esculentum Miller  SOLANACEAE  Tomato


PI 547074. Lycopersicon esculentum Miller  SOLANACEAE  Tomato


PI 547075. Lycopersicon esculentum Miller  SOLANACEAE  Tomato


PI 547076. Lycopersicon esculentum Miller SOLANACEAE Tomato


PI 547077. Lycopersicon esculentum Miller SOLANACEAE Tomato


PI 547078. Lolium perenne L. POACEAE Perennial ryegrass


PI 547079. X Triticosecale sp. POACEAE Triticale


PI 547080. Lotus corniculatus L. FABACEAE Birdsfoot trefoil


PI 547081. Triticum aestivum L. POACEAE Common wheat

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


PI 547082. Triticum aestivum L. POACEAE Common wheat

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


PI 547083. Lolium perenne L. POACEAE Perennial ryegrass


PI 547084. Gossypium hirsutum L. MALVACEAE Cotton


PI 547085. Festuca arundinacea Schreber POACEAE Tall fescue

PI 547085-continued


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

Received January 22, 1991.


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

Received January 22, 1991.


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

Received January 22, 1991.


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

Received January 22, 1991.

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

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


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

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


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

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


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.

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 

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 
sorghii.  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%, 
PI 547104. Lolium perenne L. POACEAE Perennial ryegrass


PI 547105. Lactuca sativa L. ASTERACEAE Lettuce


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

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


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


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


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


PI 547110. Lolium multiflorum Lam. POACEAE Annual ryegrass


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


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


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


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

PI 547114-continued

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 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 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.

other id: ACC: 90. locality: Lincoln Flat. Perennial.
Wild. Seed.

other id: T-43. locality: 39m NNW of Eureka. Perennial.
Wild. Seed.

other id: T-435. locality: 1 m E of Wells. Perennial.
Wild. Seed.

other id: T-437. locality: 6m SW of Montello. Perennial.
Wild. Seed.

other id: T-439. locality: 8m NE of Montello. Perennial.
Wild. Seed.

other id: T-440. locality: 2m E of Rabbit Springs. Perennial.
Wild. Seed.

other id: T-442. locality: 5m NW of Winnemucca. Perennial.
Wild. Seed.

other id: T-443. locality: N. Winnemucca. Perennial.
Wild. Seed.

other id: T-444. locality: 3m E of Heber. Perennial.
Wild. Seed.

Wild. Seed.

other id: T-446. locality: 13m W of Duchesne. Perennial.
Wild. Seed.

other id: T-448. locality: 5m E of Duchesne. 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 547163. Hordeum vulgare L.  POACEAE  Barley


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 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 grossseseratus 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 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. **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**

**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. **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, Hyw. 246E, Vigo County. **latitude:** 39 deg. 15 min. **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.
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. grosseseratus intermixed in population.  Both
species appear to be clear species with no introgression.
Seed.

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

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

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.

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  

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 (anthocynan) color leaves,  
most stems were purple, and bracts on heads low ciliate and spreading.  Typical enlarged rhizomes with  
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 

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.

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 
collector id: GIG-2021.  other id: Ames 13010.  source:  
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.

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.

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  


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 Clarino, 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.  
**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 steam, 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.
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.  

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.  

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.  
grosseseratus.  Good seed set.  Just past peak flowering.  
No disease or insect damage present.  Specimen collected.  
Collection #2043.  Seed.  

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  
PI 547185 to 547202-continued

PI 547197  
origin: United States.  
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.  
longitude: 87 deg. 42 min.  
remarks: Good seed set.  
Plants at peak of flowering.  
Typical H. grosseseratus plants, most plants branched above.  
H. divaricatus intermixed, both appear to be good species.  
H. grosseseratus scattered along road for several miles.  
Specimen collected.  
Collection #2081.  
Seed.

PI 547198  
origin: United States.  
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.  
longitude: 88 deg. 05 min.  
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.  
longitude: 89 deg. 39 min.  
remarks: Seed collected from 35 plants, small locally isolated population.  
Just past peak flowering.  
Good seed set.  
This population has some (many) characteristics of grosseseratus.  
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 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 grosseseratus, 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 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 547206  
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  
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  
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

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota, United States. Received February 12, 1991.
PI 547209-continued


PI 547210. Helianthus petiolaris Nutt. ASTERACEAE

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


PI 547211. Helianthus pauciflorus Nutt. subsp. pauciflorus ASTERACEAE

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

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 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 547214  
origin: United States.  
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.  
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.  

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 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 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 tormentose below) characteristics.  Sever rust present some plants appear dead from rust.  Spores collected.  Specimen collected.  Collection #2024.  Seed.
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 clau 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 547232  
origin: United States.  
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.  
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.  
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 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.

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 547227 to 547248-continued

PI 547244  
origin: United States.  
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.  
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.  
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.  
collector id: TUB-2080.  
other id: Ames 13075.  
source: NC-7.  
group: Ames.  
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.  
**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.  
**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 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 547256 to 547257. Hordeum vulgare L. POACEAE Barley


PI 547256


PI 547257


PI 547258. Avena sativa L. POACEAE Common oat


PI 547259 to 547261. Camellia hybrid THEACEAE


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 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 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.


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 to 547286-continued


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.


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 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 Blagoslovienka 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 547302

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.

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

PI 547305

PI 547306
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.


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.


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.


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


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.


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 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.  
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.  
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.  
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.  
collector id: AJC303.  
locality: Dikorastuscij Kiev region.  
received as: Thinopyrum intermedium ssp. trichophora.  
Perennial.  
Wild.  
Seed.

PI 547318  
donor id: AJC304.  
origin: USSR.  
collected: January 20, 1989.  
collector id: AJC304.  
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.  
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.


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.


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 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.  

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.  

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.

origin: France.  
locality: Palauaf Des Flotf, road from Montpelier to Ceanon on D-62, 1.8km E of Palai at sea level. Growing on canal bank along salt marsh.  

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.  
collector id: D-3673.  
other id: BRG-88 #20.  
locality: Mediterranean coast of France.  


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.


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 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.  

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.


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 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 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 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

PI 547353

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

PI 547355

PI 547356

PI 547357

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 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.


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.


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


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 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.


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.

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.


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.


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.


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.

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.


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.


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.


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.

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 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 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.  
collected: November 1990.  
collector id: KJ-114.  
other id: Tavassoli #10001.  
locality: Daran, Isfahan.  
elevation: 1350m.  
Wild.  
Seed.

PI 547386  
donor id: KJ-134.  
origin: Iran.  
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.  
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.  
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.  
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.


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.


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


PI 547393


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, Hohhot, 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 547399 to 547399-continued


PI 547400. Bromus inermis Leyss. POACEAE Smooth bromegrass

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


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.


PI 547402. Glycine max (L.) Merr. FABACEAE Soybean


PI 547403 to 547450. Glycine max (L.) Merr. FABACEAE Soybean

PI 547403 to 547450-continued

PI 547403
cultivar: L60-246. pedigree: (Clark(7) x CNS) r xp x (Clark(6) x Blackhawk) Rpsl. other id: Clark 63. 

PI 547404

PI 547405

PI 547406

PI 547407

PI 547408

PI 547409

PI 547410

PI 547411

PI 547412
PI 547413  
origin: United States.  
cultivar: L62-1579.  
pedigree: Clark(6) x T204.  
remarks:   
PI 547414  
origin: United States.  
cultivar: L62-1615.  
pedigree: Clark(6) x T204.  
remarks:   
PI 547415  
origin: United States.  
cultivar: L62-1686.  
pedigree: Clark(6) x PI 80837.  
PI 547416  
origin: United States.  
pedigree: Clark(6) x PI 86024.  
PI 547417  
origin: United States.  
cultivar: L63-1677.  
pedigree: Clark(6) x Chief. other id: L9.   
PI 547418  
origin: United States.  
cultivar: L63-1792.  
PI 547419  
origin: United States.  
cultivar: L63-1889.  
PI 547420  
origin: United States.  
cultivar: L63-2373.  
PI 547421  
origin: United States.  
cultivar: L63-2435.  
PI 547422  
origin: United States.  
cultivar: L63-2999.  

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Material. Seed.


Material. Seed.

Material. Seed.

Material. Seed.


PI 547403 to 547450-continued

PI 547442  

PI 547443  

PI 547444  

PI 547445  

PI 547446  

PI 547447  

PI 547448  

PI 547449  

PI 547450  
<table>
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<tr>
<th>PI</th>
<th>Origin</th>
<th>Origin Institute</th>
<th>Cultivar</th>
<th>Pedigree</th>
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</table>
PI 547460  
cultivar: L64-1083. pedigree: (Clark(6) x PI 86024)Lfl x (Clark(6) x T204)ln. remarks: Lfl ln. Annual. Genetic Material. Seed.

PI 547461  

PI 547462  

PI 547463  

PI 547464  

PI 547465  
cultivar: L64-2281. pedigree: (Clark(6) x T139)wl x (Clark(6) x T204)t. remarks: t wl. Annual. Genetic Material. Seed.

PI 547466  

PI 547467  
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  
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

cultivar: L65-90.  pedigree: (Clark(6) x PI 80837)Pdl x (Clark(6) x PI 91160)Ps.  remarks: Pdl Ps. Annual.  
Genetic Material. Seed.


cultivar: L66-14.  pedigree: mutation in Clark 63 received in 1965 from Portageville, MO. remarks: i Rps1  

Material. Seed.


Seed.
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 r xp. 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.  

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:** lw1. 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.  

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 547497  
origin: United States.  
cultivar: L68-1306.  
pedigree: PI 65388 x Clark(6).  

PI 547498  
origin: United States.  
cultivar: L68-1774.  
pedigree: L6(6) x (Laredo x Harosoy).  

PI 547499  
origin: United States.  
cultivar: L68-1864.  
pedigree: (Clark(6) x Higan)Ps-s x L63-2435,pc.  

PI 547500  
origin: United States.  
cultivar: L68-1874.  
pedigree: (Clark(6) x Higan)Ps-s x (Clark(6) x PI 80837)Pdl.  

PI 547501  
origin: United States.  
cultivar: L68-2040.  
pedigree: L64-1074,Dt2 ln x (Clark(6) x PI 86024)Lfl.  

PI 547502  
origin: United States.  
cultivar: L68-2045.  
pedigree: L62-1058,I x (Clark(6) x T145)P1 r.  

PI 547503  
origin: United States.  
cultivar: L68-2056.  
pedigree: L12 x L64-2281 sib, t wl.  

PI 547504  
origin: United States.  
cultivar: L68-2061.  
pedigree: L12 x L64-2281 sib, t wl.  
Seed.


PI 547514  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L69-4607.  
**pedigree:** L66-14, i Rpsl rxp(6) x Black Eyebrow.  
**remarks:** i k Rpsl 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.  

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 Rpsl 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 Rpsl 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 Rpsl 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 Rpsl 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 Rpsl 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 547523  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L70-4404.  
**pedigree:** L6(6) x Grant.  
**remarks:** td Rps1 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).  

PI 547525  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L70-4478.  
**pedigree:** L12 x L66-503, dt1 E1 t e2.  
**remarks:** dt1 E1 t e2 Rps1 rxp. Annual. Genetic Material. Seed.

PI 547526  
**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 Rps1 rxp. Annual. Genetic Material. Seed.

PI 547527  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L70-4558.  
**pedigree:** Clark(6) x Higan.  
**remarks:** I r t Rps1 rxp. Annual. Genetic Material. Seed.

PI 547528  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L70-4566.  
**pedigree:** Clark(6) x Higan.  

PI 547529  
**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 Rps1 rxp. Annual. Genetic Material. Seed.

PI 547530  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L70-4629.  
**pedigree:** L12 x L62-1579,1n.  
**remarks:** In Rps1 rxp. Annual. Genetic Material. Seed.
PI 547532  
origin: United States.  
cultivar: L71-149.  
pedigree: L12 x L63-2999,Ps.  

PI 547533  
origin: United States.  
cultivar: L71-920.  
pedigree: L63-3117,e2 x L63-2404,e3.  

PI 547534  
origin: United States.  
cultivar: L71-1284.  

PI 547535  
origin: United States.  
cultivar: L71-1363.  
pedigree: L62-1251,Dt2 x L66-432,El t e2.  

PI 547536  
origin: United States.  
cultivar: L71-1374.  
pedigree: L67-592,S x L66-432,El t e2.  

PI 547537  
origin: United States.  
cultivar: L71-1378.  
pedigree: L67-592,S x L66-432,El t e2.  

PI 547538  
origin: United States.  
cultivar: L71-1388.  
pedigree: L67-592,S x L66-432,El t e2.  

PI 547539  
origin: United States.  
cultivar: L71-1403.  
pedigree: L66-531,dtl El t e2 x L67-3246,e2 s-t.  

PI 547540  
origin: United States.  
cultivar: L72-1495.  
pedigree: L6 x L63-3117,e2.  

PI 547541  
origin: United States.  
cultivar: L72-1566.  
pedigree: L6(6) x T235.  
PI 547542  

PI 547543  

PI 547544  

PI 547545  

PI 547546  

PI 547547  

PI 547548  

PI 547549  

PI 547550  
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.


cultivar: L72-2133.  pedigree: L12 x L63-1889,rjl.  

cultivar: L72-2157.  pedigree: L12 x L64-1344,Lfl.  


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.

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.

cultivar: L73-753.  pedigree: L12(6) x Hawkeye,e2 Im.  

cultivar: L73-760.  pedigree: L12(6) x Hawkeye,e2 Im.  
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 Rpsl 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,d1.  
**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 Rpsl rxp x L66-531,dt1 El t e2.  
**remarks:** dt1 El t e2 I r Rpsl 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,E1 t e2.  
**remarks:** Dt2 E1 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 Rpsl rxp(5) x PI 47131).  
**remarks:** Fl i Rpsl 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 Rpsl 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.  

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 Rpsl rxp. Annual. Genetic Material. Seed.
PI 547578  
origin: United States.  
cultivar: L73-1054.  
pedigree: L12 x L63-1889,rj1. 

PI 547579  
origin: United States.  
cultivar: L73-1071.  

PI 547580  
origin: United States.  
cultivar: L73-1087.  

PI 547581  
origin: United States.  
cultivar: L73-1101.  

PI 547582  
origin: United States.  
cultivar: L73-1118.  

PI 547583  
origin: United States.  
cultivar: L73-1144.  

PI 547584  
origin: United States.  
cultivar: L74-03.  

PI 547585  
origin: United States.  
cultivar: L74-1089.  
pedigree: L69-4607,i-k Rps1 rxp x (L67-3484,i r Rps1 rxp(5) x Ogemaw,o). remarks: i-k o r Rps1 rxp. Annual. Genetic Material. Seed.

PI 547586  
origin: United States.  
cultivar: L79-1800.  
cultivar: L81-5082. pedigree: L12 x L64-2281 sib,t wl. 

PI 547588 to 547675. Glycine max (L.) Merr. FABACEAE Soybean


cultivar: L63-2441. pedigree: Clark(6) x PI 84987. 

cultivar: L63-3270. pedigree: Clark(6) x PI 84987. 


cultivar: L65-792. pedigree: Clark(6) x PI 83945-4. 

cultivar: L65-1068. pedigree: Clark(6) x Higan. 

cultivar: L65-1077. pedigree: Clark(6) x PI 83945-4. 

cultivar: L68-236. pedigree: PI 101404A x Clark(6). 

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 Rpsl rxp(6) x PI 91073.  
**remarks:** dtl i r Rpsl 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 Rpsl 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 Rpsl 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, Pdl).  
**remarks:** dtl ln Pdl. 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 Rpsl 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 Rpsl 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 Rpsl rxp.  
**remarks:** cyt G y9 Rpsl 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 yll.  
cultivar: L74-836.  pedigree: (Clark(6) x Columbia)G dl d2 x L69-4755,y9 Rpsl rxp.  remarks: d1 d2 y9 Rpsl rxp Note: testing not complete for rxp.  Annual.  Genetic Material.  Seed.


cultivar: L75-6426.  pedigree: L68-2063,r t w1 Rpsl rxp x L70-4209 sib,i-k Rpsl rxp.  remarks: i-k r t Rpsl rxp.  Annual.  Genetic Material.  Seed.
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<td>PI 547621</td>
<td>USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.</td>
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<td>L75-6433</td>
<td>L68-2063, r t w1 Rpsl r xp x L70-4209 sib, i-k Rpsl r xp.</td>
<td>i-k r w1 Rpsl r xp.</td>
<td>Annual.</td>
<td>Genetic Material.</td>
<td>Seed.</td>
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<td>PI 547622</td>
<td>USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.</td>
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<td>L75-6439</td>
<td>L68-2063, r t w1 Rpsl r xp x L70-4209 sib, i-k Rpsl r xp.</td>
<td>i-k r t w1 Rpsl r xp.</td>
<td>Annual.</td>
<td>Genetic Material.</td>
<td>Seed.</td>
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<td>PI 547629</td>
<td>USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.</td>
<td></td>
<td>L76-1101</td>
<td>L68-2063, r t w1 Rpsl r xp x L70-4209, i-k Rpsl r xp.</td>
<td>i-k t Rpsl r xp.</td>
<td>Annual.</td>
<td>Genetic Material.</td>
<td>Seed.</td>
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PI 547630  
origin: United States.  origin institute:  
cultivar: L76-1113.  pedigree: L68-2063,r t w1 Rps1 rxp x  
L70-4209,i-k Rps1 rxp.  remarks: i-k w1 Rps1 rxp.  

PI 547631  
origin: United States.  origin institute:  
cultivar: L76-1122.  pedigree: L68-2063,r t w1 Rps1 rxp x  
L70-4209,i-k Rps1 rxp.  remarks: i-k t w1 Rps1 rxp.  

PI 547632  
origin: United States.  origin institute:  
cultivar: L76-1149.  pedigree: L6(6) x T93.  remarks: v1  

PI 547633  
origin: United States.  origin institute:  
cultivar: L76-1169.  pedigree: L6 x (Clark 63(6) x  
Kanrich).  remarks: Rpm Rps1 rxp.  Annual.  Genetic  
Material.  Seed.

PI 547634  
origin: United States.  origin institute:  
cultivar: L76-1291.  pedigree: Clark(6) x Higan.  

PI 547635  
origin: United States.  origin institute:  
cultivar: L76-2060.  pedigree: Clark(6) x L70-6494 (H(5)  
Material.  Seed.

PI 547636  
origin: United States.  origin institute:  
cultivar: L76-2096.  pedigree: L6(2) x (L63-3117,e2(4) x  
Material.  Seed.

PI 547637  
origin: United States.  origin institute:  
cultivar: L76-2100.  pedigree: L6(2) x (L63-3117,e2(4) x  
Material.  Seed.

PI 547638  
origin: United States.  origin institute:  
cultivar: L76-2107.  pedigree: L6(6) x PI 229342.  
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<th>PI 547588 to 547675-continued</th>
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| **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.  
| **PI 547642**  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L77-2654.  
**pedigree:** L65-701, lbl(6) x PI 196166.  
**remarks:** lbl 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.  
| **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 T259R.  
**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.  
| **PI 547647**  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L79-1404.  
**pedigree:** Clark(6) x Arksoy.  
| **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 547658  
origin: United States.  
cultivar: L81-5080.  
pedigree: L12 x L64-2281 sib, t wl.  

PI 547659  
origin: United States.  
cultivar: L82-2669.  
pedigree: L66-14, i RpSl rxp x (L12 x L64-2281 sib, t wl).  

PI 547660  
origin: United States.  
cultivar: L83-690.  
pedigree: i mutation in L6(6) x PI 157440.  
remarks: i t w1 RpSl rxp Note: testing not complete for rxp. Annual. Genetic Material. Seed.

PI 547661  
origin: United States.  
cultivar: L83-841.  
pedigree: L12 x L64-2281 sib, t wl.  
remarks: I t w1 RpSl rxp Note: testing not complete for rxp. Annual. Genetic Material. Seed.

PI 547662  
origin: United States.  
cultivar: L83-879.  
pedigree: L12 x L64-2281 sib, t wl.  

PI 547663  
origin: United States.  
cultivar: L83-900.  
pedigree: L12 x L64-2281 sib, t wl.  

PI 547664  
origin: United States.  
cultivar: L83-930.  
pedigree: L66-14, i RpSl rxp x (L12 x L64-2281 sib, t wl).  

PI 547665  
origin: United States.  
cultivar: L83-942.  
pedigree: L66-14, i RpSl rxp x (L12 x L64-2281 sib, t wl).  

PI 547666  
origin: United States.  
cultivar: L83-964.  
pedigree: L68-1562, L1 x L63-3016, dt1.  
|----------|-----------------------------------------------------------------------------------------------------------------|-----------|-----------|----------|
PI 547676. Glycine max (L.) Merr. FABACEAE Soybean


PI 547677 to 547713. Glycine max (L.) Merr. FABACEAE Soybean


PI 547683  
**origin**: United States.  
**cultivar**: L62-801.  
**pedigree**: Harosoy(6) x PI 80837.  

PI 547684  
**origin**: United States.  
**cultivar**: L62-880.  
**pedigree**: Harosoy(6) x PI 91160.  

PI 547685  
**origin**: United States.  
**cultivar**: L62-906.  
**pedigree**: Harosoy(6) x PI 91160.  

PI 547686  
**origin**: United States.  
**cultivar**: L62-956.  
**pedigree**: Harosoy(6) x PI 86024.  

PI 547687  
**origin**: United States.  
**cultivar**: L62-973.  
**pedigree**: Harosoy(6) x PI 86024.  

PI 547688  
**origin**: United States.  
**cultivar**: L63-1016.  
**pedigree**: Harosoy(6) x T139.  

PI 547689  
**origin**: United States.  
**cultivar**: L63-1097.  
**pedigree**: Harosoy(6) x PI 84987.  

PI 547690  
**origin**: United States.  
**cultivar**: L63-1212.  
**pedigree**: Harosoy(6) x T204.  

PI 547691  
**origin**: United States.  
**cultivar**: L64-2489.  
**pedigree**: Harosoy(6) x Columbia.  

PI 547692  
**origin**: United States.  
**cultivar**: L65-372.  
**pedigree**: Harosoy(6) x T204.  


PI 547713  
origin: United States.  origin institute:  
cultivar: L70-4001.  pedigree: L2(6) x T31.  remarks: p2  

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:  

PI 547715  
origin: United States.  origin institute:  

PI 547716  
origin: United States.  origin institute:  
cultivar: L62-667.  pedigree: Harosoy(6) x T204.  other  

PI 547717  
origin: United States.  origin institute:  

PI 547718  
origin: United States.  origin institute:  
cultivar: L63-1612.  pedigree: Harosoy 63 x [(T235(2) x  
(Harosoy(5) x Blackhawk)].  remarks: wm Rpsl. Annual. Genetic Material.  
Seed.

PI 547719  
origin: United States.  origin institute:  
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:  
cultivar: L65-25.  pedigree: (Harosoy(6) x PI 84987)pc x  
PI 547721  
origin: United States.  
origin institute: 
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: 
cultivar: L65-60.  
pedigree: (Harosoy(6) x PI 91160)Ps x Harosoy(6) x PI 80837)Pdl.  
remarks: Pdl Ps.  Annual.  
Genetic Material.  Seed.

PI 547723  
origin: United States.  
origin institute: 
cultivar: L65-237.  
pedigree: Harosoy(6) x Higan.  
remarks: pal Ps-s.  Annual.  
 Genetic Material.  Seed.

PI 547724  
origin: United States.  
origin institute: 
cultivar: L65-461.  
pedigree: Harosoy(6) x T176.  
 Genetic Material.  Seed.

PI 547725  
origin: United States.  
origin institute: 
cultivar: L65-1058.  
pedigree: Harosoy(6) x T117.  
remarks: Dt2 i-i.  Annual.  
 Genetic Material.  Seed.

PI 547726  
origin: United States.  
origin institute: 
cultivar: L66-713.  
pedigree: Harosoy(6) x L9(Clark-Np).  
remarks: Np T.  Annual.  
 Genetic Material.  Seed.

PI 547727  
origin: United States.  
origin institute: 
cultivar: L66-721.  
pedigree: Harosoy(6) x L9(Clark-Np).  
 Genetic Material.  Seed.

PI 547728  
origin: United States.  
origin institute: 
cultivar: L66-2470.  
pedigree: L2 x (Harosoy(6) x T201).  
 Genetic Material.  Seed.

PI 547729  
origin: United States.  
origin institute: 
pedigree: Harosoy(6) x Higan.  
 Genetic Material.  Seed.

PI 547730  
origin: United States.  
origin institute: 
cultivar: L67-166.  
pedigree: Harosoy(6) x Higan.  
remarks: Ps-s.  Annual.  
 Genetic Material.  Seed.
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 Rpsl 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 lw1. 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.  

PI 547738  
**origin:** United States.  **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L67-3101.  **pedigree:** (Harosoy(6) x PI 80837)Pdl x L62-561,Pl.  

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.

Genetic Material. Seed.


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.


cultivar: L70-4136. pedigree: (Harosoy(6) x T204)ln x (Harosoy(6) x T204)lo. remarks: ln lo. Annual. Genetic Material. Seed.


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PI 547759  

PI 547760  

PI 547761  

PI 547762  

PI 547763 to 547794.  Glycine max (L.) Merr.  FABACEAE  Soybean


PI 547763  

PI 547764  

PI 547765  

PI 547766  
PI 547767 origin: United States. origin institute:
cultivar: L64-4103. pedigree: Harosoy(6) x Columbia.

PI 547768 origin: United States. origin institute:
cultivar: L64-4584. pedigree: Harosoy(6) x T117.

PI 547769 origin: United States. origin institute:
cultivar: L64-4830. pedigree: Harosoy(6) x PI 80837.

PI 547770 origin: United States. origin institute:
cultivar: L65-556. pedigree: Harosoy(6) x T117.

PI 547771 origin: United States. origin institute:
cultivar: L65-1053. pedigree: Harosoy(6) x T117.

PI 547772 origin: United States. origin institute:
cultivar: L67-949. pedigree: L2(6) x PI 81763.

PI 547773 origin: United States. origin institute:
cultivar: L69-4428. pedigree: L2(6) x PI 81763.

PI 547774 origin: United States. origin institute:

PI 547775 origin: United States. origin institute:

PI 547776 origin: United States. origin institute:
PI 547763 to 547794-continued

PI 547777  
origin: United States.  
cultivar: L72D-4029.  
pedigree: (L63-1212,ln x Harosoy 63) x L62-801,Pdl.  
remarks: ln Pdl Rpsl. Annual.  
Genetic Material.  
Seed.

PI 547778  
origin: United States.  
cultivar: L72D-4045.  
pedigree: L63-1212,ln x Harosoy 63.  
remarks: ln Rpsl. Annual.  
Genetic Material.  
Seed.

PI 547779  
origin: United States.  
cultivar: L72D-4110.  
pedigree: L63-1212,ln x L62-535,dtl(Harosoy(6) x T145).  
remarks: dtl ln.  
Annual. Genetic Material.  
Seed.

PI 547780  
origin: United States.  
cultivar: L72D-4169.  
pedigree: (L62-535,dtl x L62-801,Pdl) x (L62-535,dtl x L63-1212,ln).  
remarks: dtl ln Pdl. Annual.  
Genetic Material.  
Seed.

PI 547781  
origin: United States.  
cultivar: L73D-2733.  
remarks: dtl Pdl. Annual. Genetic  
Material.  
Seed.

PI 547782  
origin: United States.  
cultivar: L73D-2743.  
pedigree: (L63-1212,ln x Harosoy 63) x (L62-535,dtl x Harosoy 63).  
remarks: dtl ln Rpsl. Annual.  
Genetic Material.  
Seed.

PI 547783  
origin: United States.  
cultivar: L74-21.  
pedigree: L2(6) x Clark.  
Genetic Material.  
Seed.

PI 547784  
origin: United States.  
cultivar: L74-27.  
pedigree: L2(6) x Clark.  
Seed.

PI 547785  
origin: United States.  
cultivar: L74-66.  
pedigree: L64-4584,E2 x L64-4830,E5.  
Seed.


PI 547795 to 547816. Glycine max (L.) Merr. FABACEAE Soybean


PI 547795  
**origin:** United States.  **origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L63-16.  **pedigree:** Chippewa(10) x Blackhawk.  

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). L49-4091 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:** Rps1 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.  

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 Rps1 rxp x [L10(6) x (Clark(6) x T145)]P1 r Rps1 rxp.  
**other id:** GP-3.  
**source:** Crop Sci. 9(3):397 1969.  
**group:** CSR-SOYBEAN.  
**remarks:** I r Rps1 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.  
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.  
cultivar: L67-3586.  
pedigree: [L10(6) x (Clark(6) x T201)]I Rpsl rxp x [L10(6) x (Clark(6) x T145)]I Pl r Rpsl rxp.  
remarks: I Pl r Rpsl rxp.  
Annual.  
Genetic Material.  
Seed.

PI 547804  
origin: United States.  
cultivar: L68-4064.  
pedigree: Wayne(10) x Kanrich.  
other id: SL9.  
remarks: Rpm.  
Annual.  
Genetic Material.  
Seed.

PI 547805  
origin: United States.  
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.  
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.  
cultivar: L68-4242.  
pedigree: L10 x (Chippewa 64(4) x S62X30:1) S62X30:1 is [Clark(2) x (Lincoln(2) x Richland)]I t w1 x (Clark 63(3) x Kanrich)Rpm Rpsl rxp.  
remarks: I t w1 Rpm Rpsl rxp.  
Annual.  
Genetic Material.  
Seed.

PI 547808  
origin: United States.  
cultivar: L68-4291.  
pedigree: L10(6) x Clark.  
remarks: E2 Rpsl rxp.  
Annual.  
Genetic Material.  
Seed.

PI 547809  
origin: United States.  
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.  

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  
**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, lnr Rpm Rpsl x L72-1392, e2 I r Rpm Rpsl.  
**remarks:** e2 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, lnr Rpm Rpsl x L72-1392, e2 I r Rpm Rpsl.  
**remarks:** e2 I r Rpm 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).  

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.

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PI 547826  

PI 547827  

PI 547828  

PI 547829  

PI 547830  

PI 547831  

PI 547832. Glycine max (L.) Merr. FABACEAE Soybean


PI 547833 to 547834. Glycine max (L.) Merr. FABACEAE Soybean


PI 547835 to 547889. Glycine max (L.) Merr. FABACEAE Soybean


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 Rps1-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:** 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 Rps1-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 79,Rps1-c x L75-6125,Rpm Rps1; = 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:** L80-4308.  
**pedigree:** Williams 79,Rps1-c x L75-6867,Im.  
**remarks:** Im Rps1-c.  
**Annual.** Genetic Material.  
**Seed.**

PI 547855  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L81-4352.  
**pedigree:** Williams 79,Rps1-c x L76-2013,Rps2 Rj2.  
**remarks:** Rps1-c Rps2 Rj2.  
**Annual.** Genetic Material.  
**Seed.**

PI 547856  
**origin:** United States.  
**origin institute:** USDA-ARS/Illinois Agric. Exp. Station, Urbana, Illinois.  
**cultivar:** L81-4420.  
**pedigree:** L78-379,Rsvl x Williams 82.  
**remarks:** Rps1-k Rsvl.  
**Annual.** Genetic Material.  
**Seed.**


PI 547835 to 547889-continued


PI 547835 to 547889-continued


cultivar: L88-8488. pedigree: Williams 82,Rpsl-k x (Williams x L75-6125,Rpm Rpsl). other id: L80-5493. 

Genetic Material. Seed.

cultivar: L88-8739. pedigree: L79-1224,Dt2 Rpsl-k x (L79-1178,Dt2 Rpm Rpsl x L80-5230,Dt2 Rsv1). remarks: 

PI 547890. Glycine max (L.) Merr. FABACEAE Soybean


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

PI 547891 to 547893-continued

PI 547891

PI 547892

PI 547893

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.

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 547900. Triticum aestivum L. POACEAE Common wheat


PI 547901. Triticum aestivum L.  POACEAE  Common wheat


origin: United States.  origin institute: Kentucky Agr. Exp. Sta., Dept. of Agronomy, University of Kentucky, Lexington, Kentucky 40546-0091.  cultivar: VERNE.

PI 547902. Hordeum vulgare L.  POACEAE  Barley


PI 547903. Bromus inermis Leyss.  POACEAE  Smooth bromegrass

PI 547903-continued


PI 547904. Nicotiana tabacum L. SOLANACEAE Tobacco


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

PI 547905-continued


PI 547906. Medicago sativa L. FABACEAE Alfalfa


PI 547907 to 548065. Sorghum bicolor (L.) Moench POACEAE Sorghum


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PI 547907 to 548065-continued


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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 GERMLAPSM #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

PI 548067-continued

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: IRRI103469. other id: F 106. Perennial. Seed.


PI 548071 origin: Senegal. cultivar: OG 17. other id: 0951. 

PI 548072 to 548157. Small Grains


* PI 548072 Avena sativa L. POACEAE Oat

* PI 548073 Avena sativa L. POACEAE Oat
PI 548072 to 548157—continued

* PI 548074 Avena sativa L. POACEAE Oat

* PI 548075 Avena sativa L. POACEAE Oat

* PI 548076 Avena sativa L. POACEAE Oat

* PI 548077 Avena sativa L. POACEAE Oat

* PI 548078 Avena sativa L. POACEAE Oat

* PI 548079 Avena sativa L. POACEAE Oat

* PI 548080 Avena sativa L. POACEAE Oat

* PI 548081 Avena sativa L. POACEAE Oat

* PI 548082 Avena sativa L. POACEAE Oat

* PI 548083 Avena sativa L. POACEAE Oat

* PI 548084 Avena sativa L. POACEAE Oat

* PI 548085 Avena sativa L. POACEAE Oat

* PI 548086 Avena sativa L. POACEAE Oat
* PI 548087  Avena sativa L.  POACEAE  Oat

* PI 548088  Avena sativa L.  POACEAE  Oat

* PI 548089  Avena sativa L.  POACEAE  Oat
  origin: Hungary.  cultivar: TAPLANSZENTKERESZTI.  

* PI 548090  Avena sativa L.  POACEAE  Oat

* PI 548091  Avena sativa L.  POACEAE  Oat

* PI 548092  Avena sativa L.  POACEAE  Oat

* PI 548093  Avena sativa L.  POACEAE  Oat

* PI 548094  Hordeum vulgare L.  POACEAE  Barley

* PI 548095  Hordeum vulgare L.  POACEAE  Barley

* PI 548096  Hordeum vulgare L.  POACEAE  Barley

* PI 548097  Hordeum vulgare L.  POACEAE  Barley

* PI 548098  Hordeum vulgare L.  POACEAE  Barley

* PI 548099  Hordeum vulgare L.  POACEAE  Barley
  origin: Hungary.  origin institute: Martonvasari.  
* 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
  Annual. Cultivar. Seed.

* PI 548106 Hordeum vulgare L. POACEAE Barley
  origin: Hungary. origin institute: Martonvasari.

* PI 548107 Hordeum vulgare L. POACEAE Barley
  origin: Hungary. origin institute: Martonvasari.
cultivar: MFB 104. pedigree: Dioszegi 496/Dioszegi

* PI 548108 Hordeum vulgare L. POACEAE Barley
  origin: Hungary. cultivar: OROSHAZAI. collector id:

* PI 548109 Hordeum vulgare L. POACEAE Barley
  origin: Hungary. cultivar: SANDORFALVAI. collector id:

* PI 548110 Hordeum vulgare L. POACEAE Barley
  origin: Hungary. cultivar: TAPIOSULYI. collector id:
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<td>cultivar:</td>
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<tr>
<th>PI 548117</th>
<th>Triticum aestivum L. POACEAE Wheat</th>
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<th>PI 548123</th>
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* PI 548124 Triticum aestivum L. POACEAE Wheat

* PI 548125 Triticum aestivum L. POACEAE Wheat

* PI 548126 Triticum aestivum L. POACEAE Wheat

* PI 548127 Triticum aestivum L. POACEAE Wheat

* PI 548128 Triticum aestivum L. POACEAE Wheat

* PI 548129 Triticum aestivum L. POACEAE Wheat

* PI 548130 Triticum aestivum L. POACEAE Wheat

* PI 548131 Triticum aestivum L. POACEAE Wheat

* PI 548132 Triticum aestivum L. POACEAE Wheat

* PI 548133 Triticum aestivum L. POACEAE Wheat

* PI 548134 Triticum aestivum L. POACEAE Wheat

* PI 548136 Triticum aestivum L. POACEAE Wheat
* PI 548137 Triticum aestivum L. POACEAE Wheat

* PI 548138 Triticum aestivum L. POACEAE Wheat

* PI 548139 Triticum aestivum L. POACEAE Wheat

* PI 548140 Triticum aestivum L. POACEAE Wheat

* PI 548141 Triticum aestivum L. POACEAE Wheat

* PI 548142 Triticum aestivum L. POACEAE Wheat

* PI 548143 Triticum aestivum L. POACEAE Wheat

* PI 548144 Triticum aestivum L. POACEAE Wheat

* PI 548145 Triticum aestivum L. POACEAE Wheat

* PI 548146 Triticum aestivum L. POACEAE Wheat

* PI 548147 Triticum aestivum L. POACEAE Wheat

* PI 548148 Triticum aestivum L. POACEAE Wheat

* PI 548149 Triticum aestivum L. POACEAE Wheat
PI 548072 to 548157-continued

* PI 548150 Triticum aestivum L. POACEAE Wheat
origin: Hungary. cultivar: RAZZA 904 X MARA F5.

* PI 548151 Triticum aestivum L. POACEAE Wheat

* PI 548152 Triticum aestivum L. POACEAE Wheat

* PI 548153 Triticum aestivum L. POACEAE Wheat

* PI 548154 Triticum aestivum L. POACEAE Wheat

* PI 548155 Triticum aestivum L. POACEAE Wheat

* PI 548156 Triticum aestivum L. POACEAE Wheat

* PI 548157 Triticum aestivum L. POACEAE Wheat

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 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  

PI 548170  
**origin:** United States.  **origin institute:** University of Illinois, Urbana, Illinois 61801.  **cultivar:** T122.  **pedigree:** Unknown.  **remarks:** lo (dl 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-foliate, 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.
cultivar: T145.  pedigree: Unknown, presumed outcross.  

cultivar: T146.  pedigree: Segregant from LX286 (PI 82235 x PI 91073).  

cultivar: T152.  pedigree: From Lincoln. remarks: i Self dark seed coat. 


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.
cultivar: T204. pedigree: Segregant from T136 x T122. 
other id: L48-101. remarks: In lo Narrow leaflet, 
4-seeded pods; oval leaflet, few-seeded pods. Annual. 
Genetic Material. Seed.

cultivar: T205. pedigree: Segregant from Dunfield x 
Manchuria 13177. other id: L48-163. remarks: lw1 lw2 

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 

PI 548198  origin: United States. cultivar: T209. pedigree: 
Segregant from Lincoln x "wild dwarf". other id: 
Seed.

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.

cultivar: T216. pedigree: Segregant from PI 86038 x PI 
88351. other id: L46-266. remarks: Reddish black seeds. 

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 
|--------|------------------------|-------------------|------------------------------------------------------|----------|-----------|-----------|-----------|-------------------|-------|
PI 548193 to 548217-continued


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 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 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 to 548239-continued

PI 548239  
origin: United States.  
origin institute: Soybean Research Foundation, Mason City, Illinois 62664.  
cultivar: T262.  
pedigree: From SRF 200 (Hark-ln).  

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.  

PI 548241  
origin: United States.  
cultivar: T264.  
pedigree: Neutron-irradiated Blackhawk in the M2 generation.  
other id: L58-2749.  

PI 548242  
origin: United States.  
cultivar: T265H.  
pedigree: F2 Williams(6) x T259.  
other id: L75-0324.  

PI 548243  
origin: United States.  
cultivar: T266H.  
pedigree: F3 row of L67-533 (Clark(6) x Higan) x SRF 300.  

PI 548244  
origin: United States.  
cultivar: T267H.  
pedigree: Semi-sterile plant found in Harosoy.  
other id: L56-292.  

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.  
PI 548246


PI 548247


PI 548248


PI 548249


PI 548250


PI 548251


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.

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PI 548253


PI 548254


PI 548255


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


PI 548258


PI 548259

PI 548257 to 548261-continued


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 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 to 548270-continued


PI 548271 to 548284. Glycine max (L.) Merr. FABACEAE Soybean


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 C1421.  
remarks: In 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.  

PI 548290  
origin: United States.  
cultivar: T316.  
pedigree: F6 (Corsoy x Rampage) x Franklin.  

PI 548291 to 548295. Glycine max (L.) Merr. FABACEAE Soybean


PI 548291  
origin: United States.  
origin institute: Iowa State University, Department of Agronomy, Ames, Iowa 50010.  
cultivar: T317.  

PI 548292  
origin: United States.  
origin institute: Iowa State University, Department of Agronomy, Ames, Iowa 50010.  
cultivar: T318.  

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.  

PI 548294  
origin: United States.  
cultivar: T320.  
pedigree: Chimeric plant found in F9 of of cross Williams x Essex and identified as Y187669.  

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).  
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

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<th>Accession</th>
<th>Origin</th>
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<th>Origin Institution</th>
<th>Cultivar</th>
<th>Pedigree</th>
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<th>Group</th>
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<td>PI 548320</td>
<td>China</td>
<td>Korea, Dem Peoples Rep of</td>
<td>USDA Arlington Farm, Arlington, Virginia 22200</td>
<td>Early White Eyebrow</td>
<td>Unknown</td>
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<td>Released by 1940</td>
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<td>PI 548321</td>
<td>Korea, Dem Peoples Rep of</td>
<td>Korea, Dem Peoples Rep of</td>
<td>USDA Arlington Farm, Arlington, Virginia 22200</td>
<td>Ebony</td>
<td>Variety name assigned directly to or variety Selected from PI 6386</td>
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<td>PI 548322</td>
<td>USSR</td>
<td>Korea, Dem Peoples Rep of</td>
<td>USDA Arlington Farm, Arlington, Virginia 22200</td>
<td>Elton</td>
<td>Variety name assigned directly to or variety Selected from PI 20406</td>
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<td>Korea, Dem Peoples Rep of</td>
<td>Korea, Dem Peoples Rep of</td>
<td>Illinois AES, Illinois</td>
<td>Emperor</td>
<td>Selected from PI 97155 PI 97155 is from the Agricultural Experiment Station, Sariwon, Hwanghae Bug Do, North Korea, in 1932</td>
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<td>Japan</td>
<td>Japan</td>
<td>USDA Arlington Farm, Arlington, Virginia 22200</td>
<td>Etum</td>
<td>Variety name assigned directly to or variety Selected from PI 86100</td>
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<td>PI 548325</td>
<td>USSR</td>
<td>USSR</td>
<td>Wisconsin AES, Spooner Branch Station, Wisconsin</td>
<td>Flambeau</td>
<td>Unknown</td>
<td>CV-6L</td>
<td>Crop Sci. 7(3):279 1967</td>
<td>CSR-SOYBEAN</td>
<td>Wisconsin 839-14</td>
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<td>PI 548326</td>
<td>Japan</td>
<td>Japan</td>
<td>USDA Arlington Farm, Arlington, Virginia 22200</td>
<td>Fuji</td>
<td>Selected from PI 81029 PI 81029 is 'Chuseikuro Daizu' from the Yamato Seed Company, Sapporo, Hokkaido, Japan, in 1929</td>
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<td>Annual, Cultivar, Seed</td>
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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: Funmar.  
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.  
group: CSR-SOYBEAN.  
other id: C169.  
source: Prior designation.  
Annual.  
Cultivar.  
Seed.

PI 548331  
origin: United States.  
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.
<table>
<thead>
<tr>
<th>PI</th>
<th>Origin</th>
<th>Historical Origin</th>
<th>Origin Institute</th>
<th>Cultivar</th>
<th>Pedigree</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>548336</td>
<td>USSR. historical origin: United States. origin institute: Minnesota AES, Minnesota.</td>
<td>cultivar: Habaro.</td>
<td>Variety name assigned directly to or variety Selected from PI 20405. Annual. Cultivar. Seed.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>548344</td>
<td>Hong Kong. historical origin: United States. origin institute: USDA Arlington Farm, Arlington, Virginia 22200.</td>
<td>cultivar: Hongkong.</td>
<td>pedigree: Variety name assigned directly to or variety Selected from PI 22406. Annual. Cultivar. Seed.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PI 548345  

PI 548346  

PI 548347  

PI 548348  

PI 548349  

PI 548350  

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  

PI 548353  

280
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 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 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: 
Remarks: 
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: 
Remarks: 
Released by 1944.  
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.  
cultivar: Ontario.  
pedigree: Variety name assigned directly to or variety Selected from PI 65344.  
Annual.  
Cultivar.  
Seed.


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 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 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 PC 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 548439  

PI 548440  

PI 548441  

PI 548442  

PI 548443  

PI 548444  

PI 548445  

PI 548446  

PI 548447  

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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 548465  
**origin**: United States.  
**origin institute**: Louisiana AES, Louisiana.  
**cultivar**: Louisiana Green.  
**pedigree**: Selected from a hybrid population.  

PI 548466  
**origin**: United States.  
**cultivar**: Lathy.  
**pedigree**: Selected from 'Manchu'.  

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.  

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.  

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 Otootan. Annual. Cultivar. Seed.

PI 548471  
**origin**: United States.  
**origin institute**: Delta Experiment Station, Stoneville, Mississippi 38776.  
**cultivar**: Mamredo.  

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 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.  
**Group:** Annual.  
**Cultivar.**  
**Seed.**

PI 548475  
**origin:** United States.  
**cultivar:** Nansemond.  
**pedigree:** Unknown.  
**remarks:** Released by 1950.  
**Group:** 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 Otootan.  
**Group:** 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.  
**Group:** Annual.  
**Cultivar.**  
**Seed.**

PI 548479  
**origin:** China.  
**historical origin:** United States.  
**origin institute:** Georgia AES, Experiment, Georgia.  
**cultivar:** Otootan.  
**pedigree:** Unknown.  
**remarks:** Released by 1918.  
**Group:** 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.  
**Group:** Annual.  
**Cultivar.**  
**Seed.**

PI 548481  
**origin:** United States.  
**cultivar:** Pine Dell Perfection.  
**pedigree:** Selected from a natural cross.  
**remarks:** Released by 1937.  
**Group:** 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.  
**Group:** Annual.  
**Cultivar.**  
**Seed.**

PI 548483  
**origin:** United States.  
**cultivar:** Pocahontas.  
**pedigree:** Unknown.  
**remarks:** Released by 1950.  
**Group:** Annual.  
**Cultivar.**  
**Seed.**
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  

PI 548494  

PI 548495  

PI 548496  

PI 548497  

PI 548498. Glycine max (L.) Merr.  FABACEAE Soybean

Donated by: University of Manitoba, Winnipeg, Manitoba, Canada.  Received 1954.


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  
pedigree: Merit x Norman.  other id: CV-101.  
group: CSR-SOYBEAN.  
other id: M61-60.  
Cultivar.  
Seed.

PI 548500  
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.  
group: CSR-SOYBEAN.  
other id: M59-121.  
source: Prior designation.  
Annual.  
Cultivar.  
Seed.

PI 548501  
pedigree: Merit x Harosoy.  
other id: CV-104.  
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.  

pedigree: Illini x Dunfield.  
other id: CV-7.  
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.  

pedigree: C1070 x Adams C1070 is from C985 (Lincoln x Ogden), a 'Kent' progenitor.  
other id: CV-48.  
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:** UM15. **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


PI 548508 to 548509. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Iowa State University, Ames, Iowa, United States. Received 1968.


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.


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 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.


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.

PI 548516. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Iowa State College, Ames, Iowa, United States. Received 1956.


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 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 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.


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 to 548524-continued

PI 548524  

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  

PI 548526  

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  

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.


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.


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 548532

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).  

PI 548533. Glycine max (L.) Merr.  FABACEAE Soybean


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 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

PI 548537

PI 548538. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Kansas State University, Department of Agronomy, Manhattan, Kansas, United States. Received 1971.


PI 548539. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Central Experimental Farm, Ottawa, Ontario, Canada. Received 1955.


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


PI 548541 to 548543. Glycine max (L.) Merr. FABACEAE Soybean


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: OS1-318. source: Prior designation. other id: OS1-322. 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.


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.


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.

PI 548549. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Kansas State University, Department of Agronomy, Manhattan, Kansas, United States. Received February 1980.


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 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.


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.


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 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.


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 548562. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Weber, Charles R., Iowa State College, Department of Agronomy, Ames, Iowa, United States. Received 1957.

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.  
- **cultivar:** Franklin.  
- **pedigree:** L12 (Clark 63 isoline) x Custer.  
- **other id:** CV-144.  
- **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.  
- **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.

- **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:** 0-378-28.  **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.

- **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.  
**group**: CSR-SOYBEAN.  
**other id**: H20771-9.  

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.  
**cultivar**: Hodgson 78.  
**pedigree**: Hodgson(7) x Merit.  
**other id**: PVP 7800085.  
**source**: Certificate in force.  
**group**: PVPO.  
**other id**: CV-123.  
**group**: CSR-SOYBEAN.  
**other id**: M75-1.  

PI 548582  
**origin**: United States.  
**cultivar**: McCall.  
**pedigree**: M433 (Acme x Chippewa) x Hark.  
**other id**: CV-124.  
**group**: CSR-SOYBEAN.  
**other id**: M65-217.  

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.  
**group**: CSR-SOYBEAN.  
**other id**: Beeson 80 BC6.  

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.  
**group**: CSR-SOYBEAN.  
**other id**: Wells II BC6.  
PI 548583 to 548585-continued

PI 548585

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.


PI 548587. Glycine max (L.) Merr. FABACEAE Soybean


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.

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 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 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.

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.

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.


PI 548603. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: University of Missouri, Columbia, Missouri, United States. Received 1955.


PI 548604. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Anand, Sam C., University of Missouri, Portageville, Missouri, United States. Received September 1984.


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


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.


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.

PI 548608. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Purdue University, Department of Agronomy, West Lafayette, Indiana, United States. Received 1964.


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


PI 548610


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.


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.


PI 548613. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Williams, Leonard F., University of Missouri, Columbia, Missouri, United States. Received 1965.

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.


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.


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 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.


PI 548620. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Iowa State University, Department of Agronomy, Ames, Iowa, United States. Received 1972.


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

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.

PI 548623. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: University of Guelph, Guelph, Ontario, Canada. Received 1964.

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.
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.


PI 548626. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: University of Illinois, Department of Agronomy, Urbana, Illinois, United States. Received 1954.


PI 548627. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Buss, G.R., Virginia Polytechnic Institute, Blacksburg, Virginia, United States. Received 1976.


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.

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


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 548641. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Buzzell, Richard I., Harrow Research Station, Harrow, Ontario, Canada. Received March 18, 1988.

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

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.


PI 548645. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Southern Illinois University, Department of Agronomy, Carbondale, Illinois, United States. Received 1989.


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
PI 548646 to 548647-continued


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 548651. Glycine max (L.) Merr. FABACEAE Soybean


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


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.


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.


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.

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.  
- **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.  
- **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


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.


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.


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 548676. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Shipley, Walter, 3175 N. 91st Street, Milwaukee, Wisconsin, United States. Received December 13, 1965.


PI 548677. Glycine max (L.) Merr. FABACEAE Soybean


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.

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 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 548688. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: L. Teweles Seed Company, Milwaukee, Wisconsin, United States. Received 1971.


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  

origin: United States. 
cultivar: AP 26. 
pedigree: Beeson X Calland. 
other id: PVP 7500087. 
source: Certificate in force. 
group: PVPO. 
Annual. 
Cultivar. 
Seed.

PI 548692. Glycine max (L.) Merr. FABACEAE Soybean  

origin: United States. 
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  

origin: United States. 
pedigree: Provar x (A55629-4 x PI 248404) A55629-4 is Roanoke x Hawkeye. 
source: Certificate in force. 
group: PVPO. 
Annual. 
Cultivar. 
Seed.
PI 548694. Glycine max (L.) Merr. FABACEAE Soybean


PI 548695 to 548698. Glycine max (L.) Merr. FABACEAE Soybean


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.

PI 548700. Abelmoschus esculentus (L.) Moench MALVACEAE Okra

Donated by: Barineau, S.M., Petoseed Co., Inc, Breedes-Growers, P.O. Box 4206, Saticoy, California, United States. Received February 26, 1991.


PI 548701. Phaseolus vulgaris L. FABACEAE Navy bean

Donated by: Grafton, K.P., 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 548721

PI 548722

PI 548723

PI 548724

PI 548725

PI 548726

PI 548727

PI 548728

PI 548729

PI 548730

PI 548731
PI 548732  donor id: HOR 2895.  origin: Algeria.  
cultivar: ALGERIE 48.  remarks: Resistant to Puccinia striiformis race 24 

PI 548733  donor id: HOR 2925.  origin: Ethiopia.  
other id: Ab-9.  

PI 548734  donor id: HOR 2926.  origin: Ethiopia.  
other id: Ab-1118/47.  

PI 548735  donor id: HOR 2927.  origin: Ethiopia.  
other id: Ab-1119/47.  

PI 548736  donor id: HOR 2928.  origin: Ethiopia.  
other id: Ab-3.  

PI 548737  donor id: HOR 2929.  origin: Ethiopia.  
other id: Ab-5.  

PI 548738  donor id: HOR 2930.  origin: Ethiopia.  
other id: Ab-1116/47.  

PI 548739  donor id: HOR 2934.  origin: Ethiopia.  
other id: Ab-1115/47.  

PI 548740  donor id: HOR 2937.  origin: Germany.  
cultivar: GRANNENLOSE ZWEIZEILIGE.  

PI 548741  donor id: HOR 2943.  origin: Germany.  
other id: BBA 2919.  

PI 548742  donor id: HOR 2944.  origin: Germany.  
cultivar: SEIGLE TEMONDIJ.  
other id: BBA 3069.  

PI 548743  donor id: HOR 2951.  origin: Germany.  
other id: BBA 806.  


PI 548751  donor id: HOR 3664.  origin: Germany. other id: 809. remarks: Resistant to Puccinia striiformis race 24 in DDR. Annual. Cultivated. Seed.


PI 548756  donor id: HOR 3832.  origin: India.  other id: C. 138-2.  

PI 548757  donor id: HOR 3998.  origin: Greece.  other id: 
GRCBALK-41: 2201. locality: Agezi, northern Greece.  


PI 548759  donor id: HOR 4260.  origin: Pakistan.  cultivar: LYALLPUR 3648.  other id: In-30.  other id: 

PI 548760  donor id: HOR 4469.  origin: Syria.  other id: WIR 7633.  


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 (Mlal2, Mla7). Annual. Cultivar. Seed.

PI 548763  donor id: HOR 7459.  origin: Germany.  origin institute: Bernburg.  cultivar: NADJA.  pedigree: 

PI 548764  donor id: HOR 8899.  origin: Germany.  cultivar: GRIT.  

PI 548765  donor id: HOR 8900.  origin: Germany.  cultivar: LADA.  
PI 548702 to 548768-continued


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.


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 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-Pdl (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-Pdl (L62-801).  
**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 548783. Zea mays L. subsp. mays POACEAE Corn


PI 548784. Vigna unguiculata (L.) Walp. FABACEAE Cowpea

PI 548784-continued


PI 548785. Vigna unguiculata (L.) Walp. FABACEAE Cowpea


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.

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.


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.


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.


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:

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:

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:

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.

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.


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.


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.

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.


PI 548804. *Zea mays* L. subsp. *mays* POACEAE Corn

**Donated by:** Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.


PI 548805. *Zea mays* L. subsp. *mays* POACEAE Corn

**Donated by:** Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.


PI 548806. *Zea mays* L. subsp. *mays* POACEAE Corn

**Donated by:** Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.


PI 548807. *Zea mays* L. subsp. *mays* POACEAE Corn

**Donated by:** Pioneer Hi-Bred International, Inc., Johnston, Iowa, United States. Received March 29, 1991.

PI 548808. Zea mays L. subsp. mays POACEAE Corn


PI 548809. Oryza sativa L. POACEAE Rice


PI 548810. Capsicum annuum L. SOLANACEAE Pepper

Donated by: Ferry-Morse Seed Company, United States. Received March 29, 1991.


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.


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.


PI 548813. Carthamus tinctorius L. ASTERACEAE Safflower


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PI 548813-continued


PI 548814. Allium cepa L. LILIACEAE Onion

Donated by: Asgrow Seed Company, United States. Received March 29, 1991.


PI 548815. Phaseolus vulgaris L. FABACEAE Garden bean


PI 548816. Phaseolus vulgaris L. FABACEAE Dry bean

Donated by: Asgrow Seed Company, United States. Received March 29, 1991.


PI 548817. Gossypium hirsutum L. MALVACEAE Cotton


PI 548818. Gossypium hirsutum L. MALVACEAE Cotton

PI 548818-continued


PI 548819. Zinnia angustifolia Kunth ASTERACEAE Zinnia


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


PI 548822. Gossypium hirsutum L. MALVACEAE Cotton


PI 548823. Hordeum vulgare L. POACEAE Barley

PI 548823-continued


PI 548824. Allium cepa L. LILIACEAE Onion

Donated by: Asgrow Seed Company, United States. Received March 29, 1991.


PI 548825. Nicotiana tabacum L. SOLANACEAE Tobacco


PI 548826. Festuca longifolia Thuill. POACEAE Hard fescue


PI 548827. Lycopersicon esculentum Miller SOLANACEAE Tomato

Donated by: Harris Moran Seed Co., United States. Received March 29, 1991.


PI 548828. Brassica napus L. BRASSICACEAE Rape

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

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

origin: United States. origin institute: Dekalb Plant
Genetics. cultivar: 29MIB22. 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

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

Sta., Idaho. cultivar: GREENLEY. other id: PVP 9100126.
source: Pending. group: PVPO. Cultivar. Seed.

PI 548833. Avena sativa L. POACEAE Common oat

Received March 29, 1991.
PI 548833—continued


PI 548834. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: FFR Cooperative, United States. Received March 29, 1991.


PI 548835. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ciba-Geigy Seeds Division, United States. Received March 29, 1991.


PI 548836. Gossypium hirsutum L. MALVACEAE Cotton


PI 548837. Festuca rubra subsp. commutata Gaud. POACEAE Chewings fescue

Donated by: NK Lawn and Garden Company, United States. Received March 29, 1991.


PI 548838. Zea mays L. subsp. mays POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received March 29, 1991.
PI 548838-continued


PI 548839. Zea mays L. subsp. mays POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received March 29, 1991.


PI 548840. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Snow Brand Seed Company, United States. Received March 29, 1991.


PI 548841. Poa pratensis L. POACEAE Kentucky bluegrass


PI 548842. Brassica napus L. BRASSICACEAE Rape


PI 548843. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Pickseed West, Inc., Tangent, Oregon, United States. Received March 29, 1991.
PI 548843-continued


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 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.

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.


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 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.  

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.  
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.  

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 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, 8-10 km E of and above Yangana, Loja province. **latitude:** 04 deg. 20 min. S. **longitude:** 079 deg. 08 min. W. **elevation:** 2460-3323 m. **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 Laguna San Marcos and N slope along lake, Sucumbios province. **latitude:** 00 deg. 07 min. S. **longitude:** 077 deg. 52 min. W. **elevation:** 3477 m. **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:** 3385 m. **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-Limón 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.

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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 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 1m 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.


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.


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.

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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.


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.


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 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 to 548895-continued


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.

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


PI 548897


PI 548898


PI 548899


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

collector id: 14035. locality: Weedy vegetation along roadside and hedge row. Approx. 4km E of Ibarra along road towards Laguna San Marcos, Imbabura province.

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.


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 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.  

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.  

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/NR-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 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.

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 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/Chinchipe 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

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 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  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 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 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  
collector id: 14168.  locality: Heavily disturbed roadside forest.  Old road from Loja to Zamora, 27-42km E of Loja, Zamora/Chinchipe 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  

PI 548933  
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.

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 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 to 548947-continued


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: 3570 m. 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 548948 to 548963. Juniperus virginiana L. CUPRESSACAE 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 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 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 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. MYRICEAE 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.


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


PI 548969 to 548973. Glycine max (L.) Merr. FABACEAE Soybean


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PI 548969 to 548973-continued


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 548984 to 548984-continued


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.


PI 548986 to 548989.  Glycine max (L.) Merr.  FABACEAE Soybean

Donated by: Burton, J.W., USDA/ARS, North Carolina State University, 3127 Lingon St., Raleigh, North Carolina, United States.  Received March 27, 1991.


PI 548986 to 548989-continued

PI 548989  

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.


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, Knoxmille, Tennessee, United States. Received April 02, 1991.


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  
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.  

PI 548994. Mimosa strigillosa Torrey & A. Gray  
**FABACEAE**  
**Herbacous 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 then 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.  

PI 548996  
**origin**: United States.  
**origin institute**: USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616.  

PI 548997  
**origin**: United States.  
**origin institute**: USDA-ARS, Agronomy & Range Science, University of California, Davis, California 95616.  


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.  
locality: Ningxia, Shaanxi Province.  
Annual.  
Cultivated.  
Seed.

PI 549021  origin: China.  
cultivar: Na hei dou.  
locality: Ningxia, Shaanxi Province.  
Annual.  
Cultivated.  
Seed.

PI 549022  origin: China.  
cultivar: Qing rang wu dou.  
locality: Ningxia, Shaanxi Province.  
Annual.  
Cultivated.  
Seed.

PI 549023  origin: China.  
cultivar: Na xiao lu dou.  
locality: Ningxia, Shaanxi Province.  
Annual.  
Cultivated.  
Seed.

PI 549024  origin: China.  
cultivar: Na hong dou.  
locality: Ningxia, Shaanxi Province.  
Annual.  
Cultivated.  
Seed.

PI 549025  origin: China.  
cultivar: Da tu huang.  
locality: Shaanxi Province.  
Annual.  
Cultivated.  
Seed.

PI 549026  origin: China.  
cultivar: Gao li huang.  
locality: Shaanxi Province.  
Annual.  
Cultivated.  
Seed.

PI 549027  origin: China.  
cultivar: Tian er dan.  
locality: Shaanxi Province.  
Annual.  
Cultivated.  
Seed.

PI 549028  origin: China.  
cultivar: Feng da li.  
locality: Shaanxi Province.  
Annual.  
Cultivated.  
Seed.

PI 549029  origin: China.  
cultivar: Feng cheng da jing huan.  
locality: Shaanxi 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 549047  
**origin:** China.  **locality:** Wangre Shan, Beijing Province.  

PI 549048  
**origin:** China.  **locality:** Changping, Beijing Province.  

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:**  

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 549057  Glycine max (L.) Merr.  FABACEAE Soybean
  origin: Japan.  cultivar: Hakucho.  collected: 1915.
  Annual.  Cultivar.  Seed.

* PI 549058  Glycine max (L.) Merr.  FABACEAE Soybean
  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:

* 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:

* 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
  Annual.  Cultivar.  Seed.
* 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
  Annual. Cultivar. Seed.

* PI 549074 Glycine max (L.) Merr. FABACEAE Soybean
  Annual. Cultivar. Seed.

* PI 549075 Glycine max (L.) Merr. FABACEAE Soybean
  Annual. Cultivar. Seed.

* PI 549076 Glycine max (L.) Merr. FABACEAE Soybean
  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
  Annual. Cultivar. Seed.

* PI 549080 Glycine max (L.) Merr. FABACEAE Soybean
  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.


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.


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 549085 to 549086. Leucaena diversifolia (Schdl.) 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 Tuxteped Highway 175 intersection.  
**latitude:** 17 deg. 19 min. N.  
**longitude:** 96 deg. 30 min. W.  
**elevation:** 1690m.  

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 Tuxteped 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. cuspidita (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.  

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


PI 549089. Phaseolus vulgaris L. FABACEAE Cranberry bean


PI 549090. Phaseolus vulgaris L. FABACEAE Kidney bean


PI 549091. Phaseolus vulgaris L. FABACEAE Black bean


PI 549092. Trifolium medium L. FABACEAE Zigzag clover


PI 549093. Ipomoea cynanchifolia Meissner CONVOLVULACEAE Potato

Donated by: International Potato Center, Lima, Peru. Received April 01, 1991.


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.


PI 549096. Lolium perenne L. POACEAE Perennial ryegrass


PI 549097. Medicago sativa L. FABACEAE Alfalfa


PI 549098. Glycine max (L.) Merr. FABACEAE Soybean

Received April 11, 1991.


PI 549099. Glycine max (L.) Merr. FABACEAE Soybean

Received April 11, 1991.


PI 549100. Lactuca sativa L. ASTERACEAE Lettuce

Donated by: Ferry-Morse Seed Company, United States. Received April 11, 1991.


PI 549101. Brassica napus L. BRASSICACEAE Rape

Donated by: E.I. du Pont de Nemours & Company, United States.
Received April 11, 1991.


PI 549102. Brassica napus L. BRASSICACEAE Rape

Donated by: E.I. du Pont de Nemours & Company, United States.
Received April 11, 1991.

PI 549103. Festuca arundinacea Schreber  POACEAE  Tall fescue


PI 549104. Medicago sativa L.  FABACEAE  Alfalfa


PI 549105. Medicago sativa L.  FABACEAE  Alfalfa


PI 549106. Medicago sativa L.  FABACEAE  Alfalfa


PI 549107. Medicago sativa L.  FABACEAE  Alfalfa


PI 549108. Medicago sativa L. FABACEAE Alfalfa


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.


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


PI 549113. Avena sativa L. POACEAE Common oat


PI 549114. Oryza sativa L. POACEAE Rice


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 coronuta) and leaf spot (Helmintosporium 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 (yyccucubb), 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 (yyccucubb) 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 (yyccucucBB), 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 (yyccucucBB) 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 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:

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.

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.

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.
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 (YYcccuCucuBB), 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 (YYcccuCucuBB) 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 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 549134 donor id: N44. origin: United States. pedigree:
Population derived from annual and biannual sweetclovers with genotype N44 (YYCUCuCubB), 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 (YYCUCuCubB) 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 (YYCUCuCuBB), 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 (YYCUCuCuBB) 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 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.


PI 549158. Amaranthus sp. AMARANTHACEAE Amaranthus

Donated by: Toll, J., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received October 09, 1990.


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 to 549163-continued


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.


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.


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.

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PI 549166-continued


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 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

PI 549197

PI 549198

PI 549199

PI 549200

PI 549201


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 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 to 549253-continued


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 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, Yatchemachi, Tsukubagun, Ibaragi-Ken, Japan.  *Remarks:* Received through IBPGR, Rome Italy.  Received December 13, 1984.

  *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.


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.


PI 549257. Ipomoea ochracea (Lindley) G. Don  CONVOLVULACEAE

*Donated by:* Johnson, R.W., Queensland Herbarium, Meiers Road, Indooroopilly, Queensland, Australia.  Received May 06, 1991.


PI 549258. Ipomoea pes-tigridis L.  CONVOLVULACEAE

*Donated by:* Johnson, R.W., Queensland Herbarium, Meiers Road, Indooroopilly, Queensland, Australia.  Received May 06, 1991.


PI 549259. Ipomoea plebeia R. Br.  CONVOLVULACEAE

*Donated by:* Johnson, R.W., Queensland Herbarium, Meiers Road, Indooroopilly, Queensland, Australia.  Received May 06, 1991.

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 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.


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 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


PI 549270 to 549273. Medicago hybrid FABACEAE Alfalfa


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 fucifomis). 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.


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


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


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: Outyields 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.


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.

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.

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.

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.

collector id: P5. locality: En route to El Progresso on CA9 Highway. 
latitude: 14 deg. 53 min. N. longitude: 90 deg. 05 min. W. received as: Leucaena collinsii subsp. zacapana. Wild. Seed.

collector id: P7. locality: Just past Teculutan, 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.

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.

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

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.

locality: North of 'Koupa Menke, Bamoun.  remarks: 
Diploid. Seed.

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. Seed.

collector id: 85-6.  locality: Fortin des Flores. 
latitude: 18 deg. 54 min. N.  longitude: 97 deg. 00 min. 
W.  elevation: 1130m.  remarks: Tetraploid. Seed.

collector id: 85-1.  locality: 2km east of Ixtacqquitlan. 
latitude: 18 deg. 52 min. N.  longitude: 97 deg. 03 min. 
W.  elevation: 1175m.  remarks: Tetraploid. Bulk sample 
of K 782 and K 783. Seed.

collector id: 85-1.  locality: 3km west of Ixtacqquitlan. 
latitude: 18 deg. 52 min. N.  longitude: 97 deg. 04 min. 
W.  elevation: 1175m.  remarks: Tetraploid. Seed.

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. Seed.

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. Seed.
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.

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  

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.

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.

collector id: 85-3.  locality: 8km east of Tuzumapan.  
latitude: 19 deg. 23 min. N.  longitude: 96 deg. 57 min.  

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.

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.

collector id: 85-5.  locality: 3km south of Guelatao de  
Juarez, 25km north northeast of Oaxaca.  latitude: 17  
deg. 20 min. N.  longitude: 96 deg. 26 min. W.  
elevation: 2600m.  remarks:  Diploid.  Wild.  Seed.


PI 549296 to 549323-continued

PI 549319  
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  
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  
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.  

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.  

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.  

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.  
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 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 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 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 to 549420-continued


PI 549346 to 549420-continued


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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.  
**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.  
**Wild. Seed.**

PI 549397  
**donor id:** K 400.  
**origin:** Cameroon.  
**collected:** 1976.  
**locality:** Bamoun, north of 'Koupa Menke.  
**Wild. Seed.**

PI 549398  
**donor id:** K 403.  
**origin:** Indonesia.  
**collected:** 1976.  
**locality:** Denpasar, Bali.  
**Wild. Seed.**

PI 549399  
**donor id:** K 404.  
**origin:** Indonesia.  
**collected:** 1976.  
**locality:** Tammuiong, Kanchanaburi.  
**Wild. Seed.**

PI 549400  
**donor id:** K 453.  
**origin:** Mexico.  
**collected:** 1978.  
**locality:** Tehuantepec.  
**latitude:** 16 deg. 20 min. N.  
**longitude:** 95 deg. 14 min. W.  
**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.  
**Wild. Seed.**

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PI 549346 to 549420-continued

PI 549414


PI 549415


PI 549416

collector id: VS85. locality: 2km from Saltillo airport. latitude: 25 deg. 30 min. N. longitude: 100 deg. 55 min. W. elevation: 640m. Wild. Seed.

PI 549417


PI 549418

locality: North of Mackay. latitude: 21 deg. 00 min. S. longitude: 149 deg. 00 min. E. elevation: 100m. Wild. Seed.

PI 549419


PI 549420

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

PI 549421 to 549422-continued


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 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 549429  donor id: K 957. origin: Mexico. local name: Guajillo. 
Cumbres, 25-35km southwest of Cuidad 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: 

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.

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: 


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.

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.

collector id: 88-1. locality: Kml31 marker, 4km southeast of El Progresso on road to Asuncion Mita. latitude: 14 deg. 20 min. N. longitude: 89 deg. 47 min. W. elevation: 870m. Wild. Seed.


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 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 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.


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.


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


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 549453. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Corneli, Missouri, United States. Received 1960.


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 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 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 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.


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 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


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.


PI 549488. Phaseolus lunatus L. FABACEAE Lima bean


PI 549489. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Gill Bros., Oregon, United States. Received 1964.


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 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.


PI 549495 to 549496. Phaseolus lunatus L.  *FABACEAE* Lima bean

**Donated by:** T. W. Wood & Sons, Virginia, United States. Received 1964.


PI 549497. Phaseolus lunatus L.  *FABACEAE* Lima bean

**Donated by:** T. W. Wood & Sons, Virginia, United States. Received 1979.
PI 549497-continued


PI 549498. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Farmer Seed Company, Minnesota, United States. Received 1965.


PI 549499. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: California Agr. Exp. Sta., California, United States. Received 1965.


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

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 549507. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: California Agr. Exp. Sta., California, United States. Received 1970.


PI 549508. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1972.


PI 549509 to 549510. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Ben Fish & Son, United States. Received 1975.

PI 549509 to 549510-continued

PI 549510  
origin: United States.  origin institute: Ben Fish & Son.  
cultivar: MENDOZA.  other id: PVP 7200055.  source:  
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:  
Seed.

PI 549512.  Phaseolus lunatus L.  FABACEAE  Lima bean  


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  
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  
CSR-OTHER LEGUMES.  remarks: Resistant to downy mildew  
races A, B and D3 (caused by Phytopathora 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.


PI 549516. Phaseolus lunatus L.  FABACEAE  Lima bean

Donated by: Ben Fish & Son, United States. Received 1980.


PI 549517. Phaseolus lunatus L.  FABACEAE  Lima bean


PI 549518. Phaseolus lunatus L.  FABACEAE  Lima bean

Donated by: Ben Fish & Son, United States. Received 1981.


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


PI 549520. Phaseolus lunatus L. FABACEAE Lima bean


PI 549521. Phaseolus lunatus L. FABACEAE Lima bean


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 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


PI 549525. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wilson Seed Co., Moscow, Idaho, United States. Received 1959.


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 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.


PI 549530. Phaseolus vulgaris L. FABACEAE Bean


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 larger 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 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 Striped Creaseback, except for somewhat earlier maturity and shorter plants and pods, with less tendency to purling. 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:** BURPEE'S 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 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 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 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.  

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 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 motline, 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.  

PI 549564  
origin: United States.  
cultivar: SULPHUR.  

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 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.  

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:** MORGES 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 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 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 549586 to 549587. Phaseolus vulgaris L.  FABACEAE  Bean

Donated by: Northrup, King & Co, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1961.


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  
**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 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 549602 to 549605. Phaseolus vulgaris L. FABACEAE Bean


PI 549604

**origin:** United States.  **cultivar:** SCOTIA POLE.  **remarks:**

PI 549605

**origin:** United States.  **cultivar:** SURECROP WAX BUSH.  **remarks:**

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:**

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:**

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


PI 549615 to 549638. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1961.


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 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 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 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:  
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.  
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.  

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PI 549644. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Farmer Seed Co., Minnesota, United States. Received 1969.

origin: United States. cultivar: ROYALTY PURPLE POD.

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.

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 549645 to 549659-continued


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 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 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.

511
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 to 549677-continued


PI 549678. Phaseolus vulgaris L. FABACEAE Bean

Donated by: California AES, California, United States. Received 1962.

origin: United States. cultivar: RED KIDNEY. remarks:

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 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 hom 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, stringly 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 549691 to 549695.  Phaseolus vulgaris L.  FABACEAE  Bean

Donated by: Michigan AES, Michigan, United States.  Received 1962.


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.

516
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 549708. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Robson, New York, United States. Received 1962.


PI 549709. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Hawaii AES, Hawaii, United States. Received 1962.

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 an quality. Acceptable canning quality. Annual. Cultivar. Seed.
PI 549716 to 549717-continued

PI 549717 origin: United States. cultivar: SPARTAN ARROW.

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 549720 origin: United States. cultivar: ITALIAN OR ROMANO.

PI 549721 to 549740. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Idaho AES, Idaho, United States. Received 1963.


PI 549724  origin: United States.  cultivar: DARK RED KIDNEY.  


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, firly 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 549741 to 549743. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Northrup, King & Co, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1963.


PI 549744 to 549746. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Seed Research Specialists, California, United States. Received 1963.


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 TENDER CROP.  
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.  

PI 549757  
origin: United States.  
cultivar: IDAGEM.  
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<td>VAR. 8 STR. BE. Annual</td>
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<td>549765</td>
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<td>VAR. 8 STR. D. Annual</td>
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<td>VAR. 8 STR. F. Annual</td>
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<td>549767</td>
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<td>549768</td>
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<td>Cultivar</td>
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<td>WYOMING 00303. Annual</td>
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<td>549771</td>
<td>United States</td>
<td>WYOMING 00544. Annual</td>
<td>Cultivar</td>
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<td>549772</td>
<td>United States</td>
<td>WYOMING 00552A. Annual</td>
<td>Cultivar</td>
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<tr>
<td>549773</td>
<td>United States</td>
<td>WYOMING 00717. Annual</td>
<td>Cultivar</td>
<td>Seed</td>
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</table>
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 549809  origin: United States.  cultivar: ROUND POD KIDNEY WAX.  

PI 549810  origin: United States.  cultivar: RUBY DWARF HORTICULTURAL.  

PI 549811 to 549815. Phaseolus vulgaris L. FABACEAE  Bean

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, meatly 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.  
PI 549815. 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 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 CRESHBACKE.  
**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.  
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


PI 549834. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1965.

donate


PI 549835. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Mississippi AES, Mississippi, United States. Received 1965.

donate

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, gree. 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

**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 /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.


PI 549842 to 549843. Phaseolus vulgaris L. FABACEAE Bean

**Donated by:** Washington USDA-ARS, Washington, United States. Received 1965.


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.

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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 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 549852. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1966.


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


PI 549854. Phaseolus vulgaris L. FABACEAE Bean


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.


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 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:  

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.  

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.
<table>
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<th>PI 549863 to 549864. Phaseolus vulgaris L. FABACEAE Bean</th>
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<td><strong>Donated by:</strong> Washington USDA-ARS, Washington, United States. Received 1968.</td>
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<th>PI 549865 to 549868. Phaseolus vulgaris L. FABACEAE Bean</th>
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<td><strong>Donated by:</strong> Ferry-Morse Seed Company, California, United States. Received 1968.</td>
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<tr>
<td><strong>PI 549866</strong> origin: United States. <strong>cultivar:</strong> BLUE LAKE FM1K STRINGLESS. Annual. Cultivar. Seed.</td>
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<th>PI 549869 to 549871. Phaseolus vulgaris L. FABACEAE Bean</th>
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<tr>
<td><strong>Donated by:</strong> Michigan AES, Michigan, United States. Received 1975.</td>
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PI 549869
origin: United States.  
cultivar: MECOSTA.  

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 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.


PI 549877. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States. Received 1968.

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**

PI 549881 to 549883-continued

PI 549882  
**origin:** United States.  **cultivar:** GREEN LAKES 5A.  

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.


PI 549888. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Nebraska AES, Nebraska, United States. Received 1969.


PI 549889 to 549890. Phaseolus vulgaris L. FABACEAE Bean


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 prostate. 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 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 flesched. 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


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.


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


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


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.


PI 549905. Phaseolus vulgaris L. FABACEAE Bean


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 549910 to 549917. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1974.


PI 549910 to 549917-continued


PI 549918 to 549925. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Keystone Seed Company, United States. Received 1974.


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.

Annual. Cultivar. Seed.

PI 549934. Phaseolus vulgaris L. FABACEAE Bean


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.


PI 549937 to 549940. Phaseolus vulgaris L. FABACEAE Bean

PI 549937

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 549945 to 549946. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1975.


PI 549947. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Musser, James L., United States; and Davenport, C.A., United States. Received 1975.

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


PI 549950. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1975.


PI 549951. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Keystone Seed Company, United States. Received 1975.

PI 549952 to 549956. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1976.


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 549956 origin: United States. cultivar: WONDERGREEN. remarks: Maturity 60 days. USDA germplasm was used in hybridization of this bean. Pods 5" long, straight, round, stringless 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  
cultivar: CAPE.  other id: PVP 7600067.  source: Certificate in force.  group: PVPO.  
Annual.  Cultivar.  Seed.

PI 549958  
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.

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.

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.


PI 549965. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1977.


PI 549966. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Keystone Seed Company, United States. Received 1977.


PI 549967 to 549970. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1977.


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  

PI 549977  

PI 549978 to 549980. Phaseolus vulgaris L. FABACEAE Bean

**Donated by**: Sunseeds, Inc., California, United States. Received 1978.

PI 549978  

PI 549979  

PI 549980  

PI 549981 to 549984. Phaseolus vulgaris L. FABACEAE Bean

**Donated by**: Rogers Brothers Seed Co., Idaho, United States. Received 1978.

PI 549981  

PI 549982  
**origin**: United States. **cultivar**: RESISTO. Annual. Cultivar. Seed.

PI 549983  
**origin**: United States. **cultivar**: SUNGOLD. Annual. Cultivar. Seed.

PI 549985 to 549987. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wanigan Associates Inc., Massachusetts, United States. Received 1978.


PI 549988 to 549989. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Ferry-Morse Seed Company, California, United States. Received 1978.

PI 549988 to 549989-continued


PI 549990. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1979.


PI 549991. Phaseolus vulgaris L. FABACEAE Bean

Donated by: van Waveren Pflanzenzucht G.M.B.H., Germany. Received 1979.


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 (680 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.

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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.

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PI 550005. Phaseolus vulgaris L. FABACEAE Bean

**Donated by:** Ferry-Morse Seed Company, California, United States. Received 1980.


PI 550006. Phaseolus vulgaris L. FABACEAE Bean

**Donated by:** Rauzi, Fr., 1329 N. Main Street, Sheridan, Wyoming, United States. Received 1980.


PI 550007. Phaseolus vulgaris L. FABACEAE Bean

**Donated by:** Moore, K., 615 Lessor Drive, Ft. Collins, Colorado, United States. Received 1980.


PI 550008. Phaseolus vulgaris L. FABACEAE Bean

**Donated by:** Royal Sluis, Netherlands. Received 1981.


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.


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 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 it 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 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 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 550023 to 550024. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1982.


PI 550025 to 550026. Phaseolus vulgaris L. FABACEAE Bean


PI 550027 to 550029. Phaseolus vulgaris L. FABACEAE Bean


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 In 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.


PI 550032. Phaseolus vulgaris L. FABACEAE Bean


PI 550033 to 550034. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1982.


PI 550035 to 550042. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1983.


PI 550043 to 550045. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States.
Received 1983.


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.


PI 550055. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Nebraska Agr. Exp. Sta., Nebraska, United States. Received 1982.


PI 550056 to 550114. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Berrier, B. F., 1407 Grand, Canon City, Colorado, United States. Received 1983.

PI 550072  origin: United States. cultivar: 152 + 0. Annual.
           Cultivar. Seed.
PI 550073  origin: United States. cultivar: 179 + 60. Annual.
           Cultivar. Seed.
           Cultivar. Seed.
           Cultivar. Seed.
           Cultivar. Seed.
           Cultivar. Seed.
PI 550078  origin: United States. cultivar: 241 + 0. Annual.
           Cultivar. Seed.
           Cultivar. Seed.
PI 550080  origin: United States. cultivar: 246 + 27 BLUE LAKE
           POLE. Annual. Cultivar. Seed.
           Cultivar. Seed.
PI 550082  origin: Mexico. cultivar: 262 + 207.60. Annual.
           Cultivar. Seed.
           Cultivar. Seed.
PI 550084  origin: United States. cultivar: 2641 + 149. Annual.
           Cultivar. Seed.
           Cultivar. Seed.
           Cultivar. Seed.
PI 550087  origin: United States. cultivar: 459 + 0. Annual.
           Cultivar. Seed.
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<th>Origin</th>
<th>Cultivar Description</th>
<th>Category</th>
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<td>United States</td>
<td>cultivar: 491 + 0. Annual. Cultivar. Seed.</td>
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PI 550056 to 550114—continued


PI 550115 to 550117. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Sunseeds, Inc., California, United States. Received 1983.


PI 550118 to 550121. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1983.


PI 550122 to 550123. Phaseolus vulgaris L. FABACEAE Bean


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.


PI 550125 to 550128. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Royal Sluis, Netherlands. Received 1983.


PI 550129. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Dean, Leslie L., United States. Received 1983.


PI 550130. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Musser Seed Company, Inc., California, United States. Received 1983.

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.


PI 550137. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Holland-Select B.V., Netherlands. Received 1984.


PI 550138 to 550139. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1984.


PI 550140 to 550142. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Royal Sluis, Netherlands. Received 1984.


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  

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  

PI 550156  

PI 550157  

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: PGR15781. Annual.
Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

PI 550162 origin: Portugal. cultivar: PGR15785. Annual.
Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

PI 550168 origin: Portugal. cultivar: PGR15791. Annual.
Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.

Cultivar. Seed.
PI 550158 to 550211-continued

PI 550192  
origin: Turkey.  
Seed.

PI 550193  
origin: Turkey.  
Seed.

PI 550194  
origin: Turkey.  
Seed.

PI 550195  
origin: Turkey.  
Seed.

PI 550196  
origin: Turkey.  
Seed.

PI 550197  
origin: Turkey.  
Seed.

PI 550198  
origin: Turkey.  
Seed.

PI 550199  
origin: Turkey.  
Seed.

PI 550200  
origin: Turkey.  
Seed.

PI 550201  
origin: Turkey.  
Seed.

PI 550202  
origin: Turkey.  
Seed.

PI 550203  
origin: Turkey.  
Seed.

PI 550204  
origin: Turkey.  
Seed.

PI 550205  
origin: Turkey.  
Seed.

PI 550206  
origin: Turkey.  
Seed.

PI 550207  
origin: Turkey.  
Seed.

PI 550208  
origin: Turkey.  
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 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:** CREESEBACK 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 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 550256 to 550257. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Wilbur-Ellis Company, United States. Received 1985.


PI 550258 to 550259. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1985.


PI 550260 to 550263. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1985.


PI 550260 to 550263—continued

PI 550262  
cultivar: TESS. other id: PVP 8500135.  

PI 550263  
cultivar: VOLARE. other id: PVP 8500136.  

PI 550264. Phaseolus vulgaris L. FABACEAE Bean


origin: United States. origin institute: Agri Sales, Inc..  
cultivar: AGRI-I. other id: PVP 8500104.  

PI 550265. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Sacramento Valley Milling Co., California, United States. Received 1985.

cultivar: LASSEN. other id: PVP 8500164.  

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.  

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 550270. Phaseolus vulgaris L. FABACEAE Bean

*Donated by:* Gallatin Valley Seed Co., Idaho, United States. Received 1986.


PI 550271. Phaseolus vulgaris L. FABACEAE Bean

*Donated by:* Gentec, Inc., United States. Received 1986.


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 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 550280 to 550287. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1986.

PI 550280 to 550287-continued

PI 550281  

PI 550282  

PI 550283  

PI 550284  

PI 550285  

PI 550286  

PI 550287  

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 550291. Phaseolus vulgaris L. FABACEAE Bean


PI 550292 to 550293. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Gallatin Valley Seed Co., Idaho, United States. Received 1987.


PI 550294. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1987.

PI 550295 to 550340. Phaseolus vulgaris L. FABACEAEBean

*Donated by:* Colorado USDA, ARS, Colorado, United States. Received 1987.


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 550344 to 550346. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Asgrow Seed Company, Michigan, United States. Received 1988.


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 to 550401-continued

PI 550352  origin: United States.  
cultivar: BIBE.  Annual.  
Cultivar.  Seed.

PI 550353  origin: United States.  
cultivar: BIBY.  Annual.  
Cultivar.  Seed.

PI 550354  origin: United States.  
cultivar: BICA.  Annual.  
Cultivar.  Seed.

PI 550355  origin: United States.  
cultivar: BICY.  Annual.  
Cultivar.  Seed.

PI 550356  origin: United States.  
cultivar: BIF.  Annual.  
Cultivar.  Seed.

PI 550357  origin: United States.  
cultivar: BIFF.  Annual.  
Cultivar.  Seed.

PI 550358  origin: United States.  
cultivar: BIGS.  Annual.  
Cultivar.  Seed.

PI 550359  origin: United States.  
cultivar: BIKA.  Annual.  
Cultivar.  Seed.

PI 550360  origin: United States.  
cultivar: BIKE.  Annual.  
Cultivar.  Seed.

PI 550361  origin: United States.  
cultivar: BIM.  Annual.  
Cultivar.  Seed.

PI 550362  origin: United States.  
cultivar: BIOT.  Annual.  
Cultivar.  Seed.

PI 550363  origin: United States.  
cultivar: BIPI.  Annual.  
Cultivar.  Seed.

PI 550364  origin: United States.  
cultivar: BIR.  Annual.  
Cultivar.  Seed.

PI 550365  origin: United States.  
cultivar: BIS.  Annual.  
Cultivar.  Seed.

PI 550366  origin: United States.  
cultivar: BIVA.  Annual.  
Cultivar.  Seed.

PI 550367  origin: United States.  
cultivar: BLACK VALENTINE GP.  
Annual.  Cultivar.  Seed.

PI 550368  origin: United States.  
cultivar: BROWN SUGAR CROWDER.  
Annual.  Cultivar.  Seed.
PI 550347 to 550401-continued


<table>
<thead>
<tr>
<th>PI 550347 to 550401-continued</th>
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<tbody>
<tr>
<td>PI 550386  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRACAB. Annual. Cultivar. Seed.</td>
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<tr>
<td>PI 550387  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRAF. Annual. Cultivar. Seed.</td>
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<tr>
<td>PI 550388  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRAG. Annual. Cultivar. Seed.</td>
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<td>PI 550389  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRAGE. Annual. Cultivar. Seed.</td>
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<td>PI 550390  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRALA. Annual. Cultivar. Seed.</td>
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<td>PI 550391  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRALL. Annual. Cultivar. Seed.</td>
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<td>PI 550392  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRAMA. Annual. Cultivar. Seed.</td>
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<td>PI 550393  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRAMO. Annual. Cultivar. Seed.</td>
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<td>PI 550394  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRANA. Annual. Cultivar. Seed.</td>
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<td>PI 550395  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRAPA. Annual. Cultivar. Seed.</td>
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<td>PI 550396  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRAPE. Annual. Cultivar. Seed.</td>
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<tr>
<td>PI 550397  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRASS. Annual. Cultivar. Seed.</td>
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<tr>
<td>PI 550398  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRASY. Annual. Cultivar. Seed.</td>
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<td>PI 550399  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRATA. Annual. Cultivar. Seed.</td>
</tr>
<tr>
<td>PI 550400  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRATE. Annual. Cultivar. Seed.</td>
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<tr>
<td>PI 550401  <strong>origin:</strong> United States.  <strong>cultivar:</strong> TRAVY. Annual. Cultivar. Seed.</td>
</tr>
</tbody>
</table>
PI 550402. Phaseolus vulgaris L. FABACEAE Bean


PI 550403 to 550408. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1988.


PI 550409 to 550419. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Co., Idaho, United States. Received 1989.

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.  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 550440. Zea mays L. subsp. mays POACEAE Corn

Donated by: Agricultural Research Service -- USDA, Iowa State University, Ames, Iowa, United States. Received 1966.


PI 550441. Zea mays L. subsp. mays POACEAE Corn

Donated by: Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri, United States. Received 1968.


PI 550442. Zea mays L. subsp. mays POACEAE Corn

PI 550442-continued


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 550445


PI 550446


PI 550447


PI 550448


PI 550449

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.  
other id: GP-16.  
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.  
group: CSR-MAIZE.  

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, Hydl100.3, and A148.  
other id: GP-18.  
group: CSR-MAIZE.  

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.  
other id: GP-19.  
group: CSR-MAIZE.  
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.  

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.  

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.  
**group:** CSR-MAIZE.  
PI 550467  

PI 550468  

PI 550469  

PI 550470  

PI 550471  
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, 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.  
**group:** CSR-MAIZE.  

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.

**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.  
**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.

618
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.  
**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, Mo11, Mo17, Mo19), 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.  
**group**: CSR-MAIZE.  

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.  
**group**: CSR-MAIZE.  

PI 550478  
**origin**: United States.  
**origin institute**: Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010.  
**cultivar**: BS12(H1)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.  
**group**: CSR-MAIZE.  
**Annual. Breeding Material. Seed.**
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.  
**group**: CSR-MAIZE.  

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.  
**group**: CSR-MAIZE.  

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.  
**group**: CSR-MAIZE.  
**remarks**: Selection was primarily for yield. Some selection for resistance to lodging, first brood corn borer leaf feeding, and Diplodia zeae. 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.  
**group**: CSR-MAIZE.  

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.  
**group**: CSR-MAIZE.  
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 550487 to 550491. Zea mays L. subsp. mays POACEAE Corn

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  

PI 550490  

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 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


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.


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 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, Mo12. 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/Amerciano Sta. Tereza I 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 CSR-MAIZE. 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 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 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


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**


**PI 550509**


**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 550515

PI 550516

PI 550517

PI 550518


PI 550508 to 550524-continued

PI 550519  
origin: United States.  
cultivar: T220.  
pedigree: T61/Hills Yellow Dent and backcrossed once to T61.  
other id: GP-112.  
group: CSR-MAIZE.  

PI 550520  
origin: United States.  
cultivar: T224.  
pedigree: T115/I205/L289 and backcrossed once to T115.  
other id: GP-113.  
group: CSR-MAIZE.  

PI 550521  
origin: United States.  
cultivar: T226.  
pedigree: Cross between a selection from the Huffman variety and RB893 with one backcross to RB893.  
other id: GP-114.  
group: CSR-MAIZE.  

PI 550522  
origin: United States.  
cultivar: T232.  
pedigree: Selection from a cross between Jellicorse and Teko Yellow.  
other id: GP-115.  
group: CSR-MAIZE.  
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

**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.  
**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.  
**group**: CSR-MAIZE.  

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.  
**group**: CSR-MAIZE.  
PI 550532. Zea mays L. subsp. mays POACEAE Corn


PI 550534. Zea mays L. subsp. mays POACEAE Corn

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  
**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  
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 (Kabatiella 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.  
**group:** CSR-MAIZE.  

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.  
I 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.


I 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 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.  
group: CSR-MAIZE.  

PI 550549 to 550554. Zea mays L. subsp. mays POACEAE Corn


PI 550549  
origin: United States.  
cultivar: NDSG(MS)C5.  
pedigree: Synthetic developed from NDSG by 5 cycles of mass selection for yield and standability.  
other id: GP-133.  
group: CSR-MAIZE.  

PI 550550  
origin: United States.  
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.  
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 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.  
**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.  
**group:** CSR-MAIZE.  

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.  
**group:** CSR-MAIZE.  

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.  
**group:** CSR-MAIZE.  
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.


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.
PI 550558-continued


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.


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 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.

PI 550564. Zea mays L. subsp. mays POACEAE Corn


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 550567


PI 550568


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


PI 550570

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

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


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.


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.


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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 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:** ULYANOVS KAYA I.  
**other id:** 59. **locality:** Ulyanovsk. **Annual. Breeding Material. Seed.**

PI 550637  
**donor id:** VIR 462. **origin:** USSR. **cultivar:** SOCHNOVISO KOYA.  
**local name:** Highly Juicy (English translation). **other id:** 60. **locality:** Zernograd. **Annual. Breeding Material. Seed.**

PI 550638  
**origin:** USSR. **cultivar:** SEREBRISTOYE 243. **other id:** 61.  
**Annual. Breeding Material. Seed.**

PI 550639  
**donor id:** VIR 9327. **origin:** USSR. **cultivar:** KHEGARI RAN NII 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 B UROE 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.**
<table>
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<th>donor id:</th>
<th>origin:</th>
<th>cultivar:</th>
<th>other id:</th>
<th>Description</th>
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</thead>
</table>


PI 550578 to 550687-continued


PI 550688. Arachis hypogaea L. FABACEAE Peanut


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 550695.  Zea mays L.  subsp.  mays  POACEAE  Corn

  Donated by:  Lifaco Genetics, United States.  Received May 17, 1991.


PI 550696.  Triticum aestivum L.  POACEAE  Common wheat

PI 550696-continued


PI 550697. Triticum aestivum L. POACEAE Common wheat


PI 550698. Capsicum annuum L. SOLANACEAE Pepper

Donated by: Del Monte Corp., United States. Received May 17, 1991.


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.

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


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: CIt 12382. Seed.

PI 550711 origin: United States. cultivar: CALIFORNIA 6059. other id: CIt 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: CIt 13114. Seed.

PI 550713. X Tritordeum sp. POACEAE

PI 550713-continued

origin: United States. cultivar: CALIFORNIA 609. other id: CItr 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: CItr 13724. Seed.

PI 550715. X Tritordeum sp. POACEAE


origin: United States. cultivar: AGROTANA. other id: CItr 13925. Seed.

PI 550716. X Tritordeum sp. POACEAE

Donated by: CSIRO, Australia. Received June 1968.

origin: UNKNOWN. cultivar: P.6297. other id: CItr 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.


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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)CO.  *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.


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


PI 550723. Medicago sativa L. FABACEAE Alfalfa

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 (Acrithosiphon pisum), 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 (Acrithosiphon 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


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.


PI 550728. Glycine max (L.) Merr. FABACEAE Soybean


PI 550729. Glycine max (L.) Merr. FABACEAE Soybean

PI 550729-continued


PI 550730. Glycine max (L.) Merr. FABACEAE Soybean


PI 550731. Glycine max (L.) Merr. FABACEAE Soybean


PI 550732. Glycine max (L.) Merr. FABACEAE Soybean


PI 550733. Glycine max (L.) Merr. FABACEAE Soybean


PI 550734. Glycine max (L.) Merr. FABACEAE Soybean


PI 550735. Glycine max (L.) Merr. FABACEAE Soybean


PI 550736. Glycine max (L.) Merr. FABACEAE Soybean


PI 550737. Capsicum annuum L. SOLANACEAE Pepper

Donated by: Del Monte Corp., United States. Received June 07, 1991.


PI 550738. Glycine max (L.) Merr. FABACEAE Soybean

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

PI 550739. Glycine max (L.) Merr. FABACEAE Soybean

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


PI 550740. Glycine max (L.) Merr. FABACEAE Soybean

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


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 550747


PI 550748


PI 550749


PI 550750


PI 550751


PI 550752


PI 550753


PI 550754


PI 550755


PI 550756


PI 550757


PI 550758


PI 550759


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PI 550741 to 550877-continued


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PI 550741 to 550877—continued


PI 550741 to 550877-continued


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 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 to 550898-continued


PI 550899 to 550925. Zea mays L. subsp. mays POACEAE Corn


682
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 550919

PI 550920

PI 550921

PI 550922

PI 550923

PI 550924

PI 550925
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


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<td>547071-547072, 547085, 547114, 547396-547397, 548795-548796, 548811-548812, 548840, 548843, 549103, 549115, 550704, 550709</td>
</tr>
<tr>
<td>Tall wheatgrass</td>
<td>547326</td>
</tr>
<tr>
<td>Tobacco</td>
<td>547904, 548825, 549109-549110</td>
</tr>
<tr>
<td>Tomato</td>
<td>546492, 547073-547077, 548827</td>
</tr>
<tr>
<td>Triticale</td>
<td>546479, 547079, 547164, 550576</td>
</tr>
<tr>
<td>Upland cotton</td>
<td>549136-549151</td>
</tr>
<tr>
<td>Vetch</td>
<td>547068</td>
</tr>
<tr>
<td>Watermelon</td>
<td>547106, 549159-549163</td>
</tr>
</tbody>
</table>
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)
IPPO - 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)