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Plant Inventory No. 200, Part III

Plant Materials Introduced
September 1 to December 31, 1991
(Nos. 555396 to 559358)

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

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

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PI 555396 to 555399. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Leffel, R.C., Agricultural Research Service -- USDA, Soybean and Alfalfa Research Laboratory, Beltsville, Maryland, United States. **remarks:** BARC-6, BARC-7, BARC-8, BARC-9 High Protein Soybean Germplasms. Received August 26, 1991.

- PI 555396 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Soybean and Alfalfa Research Laboratory, Beltsville, Maryland 20705. **cultivar:** BARC-6. **pedigree:** CX797-21 X D76-8070. CX797-21 is from 'Cutler 71' (3) X 'Pando'. D76-8070 was derived from intercrosses of selections from four crosses: 'Hill' X 'Sioux', FC31745 X D49-2510, Hill X PI 96983, and D49-2491 (4) X PI 163453. **other id:** GP-127. **group:** CSR-SOYBEAN. **remarks:** High-protein, lower oil (506 and 157g kg-1 respectively) soybean of Group III maturity with indeterminate stem. Seed yellow with black hila. Flowers purple. Pods brown. Pubescence tawny. Seed size, plant height, and lodging score averaged 190mg sd-1, 100cm, and 2.8 (intermediate), respectively. Breeding Material. Seed.
- PI 555397 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Soybean and Alfalfa Research Laboratory, Beltsville, Maryland 20705. **cultivar:** BARC-7. **pedigree:** CX797-21 X D80-6931. CX797-21 is from 'Cutler 71' (3) X 'Pando'. D80-6931 is from 'Tracy' (4) X PI86490. **other id:** GP-128. **group:** CSR-SOYBEAN. **remarks:** High-protein, lower oil (491 and 148g kg-1 respectively) soybean of Group IVS maturity with determinate stem. Seed yellow with black hila. Flowers purple. Pubescence tawny (near grey?). Pods tan and brown. Seed size, plant height, and lodging score averaged 160mg sd-1, 80cm, and 2.2 respectively. Breeding Material. Seed.
- PI 555398 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Soybean and Alfalfa Research Laboratory, Beltsville, Maryland 20705. **cultivar:** BARC-8. **pedigree:** CX797-21 X NC-2-62. CX797-21 is from 'Cutler 71' (3) X 'Pando'. NC-2-62 is a subline of the high-protein germplasm population, NC-2, developed by seven cycles of recurrent selection (Crop Sci 26: 211.1986.). **other id:** GP-129. **group:** CSR-SOYBEAN. **remarks:** High-protein, lower oil (528 and 148g kg-1 respectively) soybean of Group V maturity with determinate stem. Seed yellow with black hila. Flowers white. Pods tan. Pubescence tawny. Seed size, plant height, and lodging score averaged 130mg sd-1, 75cm and 1.8, respectively. Breeding Material. Seed.

PI 555396 to 555399-continued

PI 555399 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Soybean and Alfalfa Research Laboratory, Beltsville, Maryland 20705. **cultivar:** BARC-9. **pedigree:** CX797-21 X NC-2-62. CX797-21 is from 'Cutler 71' (3) X 'Pando'. NC-2-62 is a subline of the high-protein germplasm population, NC-2, developed by seven cycles of recurrent selection (Crop Sci 26: 211.1986.). **other id:** GP-130. **group:** CSR-SOYBEAN. **remarks:** High-protein, lower oil (529 and 147g kg-1 respectively) soybean of Group IVS maturity with indeterminate stem. Seed yellow with black hila. Flowers white. Pods tan. Pubescence tawny. Seed size, plant height, and lodging score averaged 160mg sd-1, 115cm and 3.0, respectively. Breeding Material. Seed.

PI 555400. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: Sniff, D.G., Brawley, California, United States.
Received January 01, 1978.

origin: United States. **cultivar:** ABADA. **other id:** 78-13. **remarks:** Name created from first names of Dr. and Mrs. Sniff (Abby and Dana), Indio, California. Black, soft and melting, flavor very sweet and rather cloying, early ripening. Female plant. Perennial. Cutting.

PI 555401 to 555404. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. **Received** January 01, 1964.

PI 555401 **origin:** United States. **pedigree:** Abada x Medjool. **other id:** 64-343-51. **remarks:** Soft, good black date. Female plant. Perennial. Seed.

PI 555402 **origin:** United States. **cultivar:** DEGLET NOOR BC4. **other id:** 64-354-22. **remarks:** Male plant. Perennial. Seed.

PI 555403 **origin:** United States. **cultivar:** HALAWY BC3. **other id:** 64-351-1. **remarks:** Male plant. Perennial. Seed.

PI 555404 **origin:** United States. **cultivar:** HALAWY BC3. **other id:** 64-351-18. **remarks:** Male plant. Perennial. Seed.

PI 555405 to 555409. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. **Received** January 01, 1966.

PI 555405 to 555409-continued

- PI 555405 **origin:** United States. **cultivar:** AMIR HAJJ BC2. **other id:** 66-11-50. **remarks:** Male plant. Perennial. Seed.
- PI 555406 **origin:** United States. **cultivar:** AMIR HAJJ BC2. **other id:** 66-11-52. **remarks:** Male plant. Perennial. Seed.
- PI 555407 **origin:** United States. **cultivar:** ZAHIDI BC2. **other id:** 66-14-50. **remarks:** Male plant. Perennial. Seed.
- PI 555408 **origin:** United States. **cultivar:** ZAHIDI BC2. **other id:** 66-14-52. **remarks:** Male plant. Perennial. Seed.
- PI 555409 **origin:** United States. **cultivar:** ZAHIDI BC2. **other id:** 66-15-51. **remarks:** Male plant. Perennial. Seed.

PI 555410 to 555411. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. Received January 01, 1978.

- PI 555410 **origin:** United States. **cultivar:** BARHEE A-19. **other id:** 78-7. **remarks:** Many inflorescences, flowers late. Pollen good for use on Deglet Noor, induces large fruit but late ripening. Produces several offshoots per palm. Male plant. Perennial. Seed.
- PI 555411 **origin:** United States. **cultivar:** FARD #4. **other id:** 78-10. **remarks:** Pollen induces early ripening/hastens ripening on late inflorescences, but results in small fruit. Not as vigorous as some males. Pollen yield average, inflorescences relatively small. Flowers midseason. Low and high offshoots. Male plant. Perennial. Cutting.

PI 555412 to 555414. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. Received January 01, 1960.

- PI 555412 **origin:** United States. **cultivar:** BARHEE BC3. **other id:** 60-270-9. **remarks:** Male plant. Perennial. Seed.
- PI 555413 **origin:** United States. **cultivar:** DAYRI BC2. **other id:** 60-271-2. **remarks:** Male plant. Perennial. Seed.
- PI 555414 **origin:** United States. **cultivar:** DAYRI BC2. **other id:** 60-271-7. **remarks:** Male plant. Perennial. Seed.

PI 555415 to 555418. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. Received January 01, 1970.

PI 555415 **origin:** United States. **cultivar:** BARHEE BC4. **other id:** 70-41-53. **remarks:** Male plant. Perennial. Seed.

PI 555416 **origin:** United States. **cultivar:** DAYRI BC3. **other id:** 70-39-51. **remarks:** Male plant. Perennial. Seed.

PI 555417 **origin:** United States. **cultivar:** DAYRI BC3. **other id:** 70-39-53. **remarks:** Male plant. Perennial. Seed.

PI 555418 **origin:** United States. **cultivar:** THOORY BC4. **other id:** 70-43-50. **remarks:** Male plant. Perennial. Seed.

PI 555419. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. Received January 01, 1974.

origin: United States. **cultivar:** BARHEE BC4. **other id:** 74-31-50. **remarks:** Male plant. Perennial. Seed.

PI 555420. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: Boyer Gardens, Indio, California, United States. Received March 01, 1968.

origin: United States. **cultivar:** BOYER #11. **other id:** 78-8. **remarks:** Produces 25-35 inflorescences per year, unusually heavy producer. Early. Rate of growth less than that of Deglet Noor and Crane male. Heavy pollen producer. Male plant. Perennial. Cutting.

PI 555421. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: Sunipalms (Crane ranch), Indio, California, United States. Received January 01, 1978.

origin: United States. **cultivar:** CRANE. **other id:** 78-9. **remarks:** Flowers early. Grows as fast as parent Deglet Noor. Produces few offshoots. Male plant. Perennial. Cutting.

PI 555422 to 555423. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. Received January 01, 1961.

PI 555422 to 555423-continued

PI 555422 **origin:** United States. **pedigree:** Dayri x Deglet Noor BC3. **other id:** 61-414-6. **remarks:** Male plant. Perennial. Seed.

PI 555423 **origin:** United States. **cultivar:** KHALASA BC2. **other id:** 61-411-2. **remarks:** Male plant. Perennial. Cutting.

PI 555424 to 555431. Phoenix dactylifera L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. Received January 01, 1971.

PI 555424 **origin:** United States. **pedigree:** Dayri x Deglet Noor (64-354-22 BC4). **other id:** 71-15-50. **remarks:** Male plant. Perennial. Seed.

PI 555425 **origin:** United States. **pedigree:** Horra x Dayri. **other id:** 71-38-10. **remarks:** Medium buff-brown, semidry to dry, low tannin, potential semidry breeding date. Best flavor of all dry/semidry types. Female plant. Perennial. Seed.

PI 555426 **origin:** United States. **pedigree:** Medjool x (Dayri x Deglet Noor). **other id:** 71-25-15. **remarks:** Black, soft to semidry. Good flavor. Keeps well. Female plant. Perennial. Seed.

PI 555427 **origin:** United States. **pedigree:** Medjool x (Dayri x Deglet Noor). **other id:** 71-25-36. **remarks:** Dark brown, soft to semidry, largest date at Indio. Fair quality, mild flavor. A novelty. Female plant. Perennial. Seed.

PI 555428 **origin:** United States. **pedigree:** Thoory x Deglet Noor. **other id:** 71-8-1. **remarks:** Buff-brown, semidry. Good, interesting, mild flavor. Female plant. Perennial. Seed.

PI 555429 **origin:** United States. **pedigree:** Thoory x Halawy. **other id:** 71-12-33. **remarks:** Bright, medium brown, semidry. Flesh of medium thickness. Small seed in large cavity. Skin separation could be problem. Good, distinctive flavor. One of best semidry hybrids. Female plant. Perennial. Seed.

PI 555430 **origin:** United States. **pedigree:** Thoory x Halawy. **other id:** 71-12-53. **remarks:** Male plant. Perennial. Seed.

PI 555424 to 555431-continued

PI 555431 **origin:** United States. **pedigree:** Thoory x Khadrawy.
other id: 71-11-21. **remarks:** Bright medium amber brown,
semidry. Some fruit nearly as large as Medjool. Early.
Marginal because susceptible to severe rain damage.
Khalal mild flavored. Female plant. Perennial. Seed.

PI 555432 to 555440. Phoenix dactylifera L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United
States. Received January 01, 1969.

PI 555432 **origin:** United States. **cultivar:** DEGLET NOOR BC5. **other**
id: 69-150-52. **remarks:** Male plant. Perennial. Seed.

PI 555433 **origin:** United States. **cultivar:** DEGLET NOOR BC5. **other**
id: 69-150-50. **remarks:** Male plant. Perennial. Seed.

PI 555434 **origin:** United States. **cultivar:** HALAWY BC4. **other id:**
69-152-50. **remarks:** Male plant. Perennial. Seed.

PI 555435 **origin:** United States. **cultivar:** KHADRAWY BC4. **other**
id: 69-154-28. **remarks:** Male plant. Perennial. Seed.

PI 555436 **origin:** United States. **cultivar:** KHALASA BC2. **other id:**
69-155-51. **remarks:** Male plant. Perennial. Cutting.

PI 555437 **origin:** United States. **pedigree:** Khalasa x Khalasa
(61-411-2). **other id:** 69-155-14. **remarks:** Dark brown,
soft, small, well-flavored date. Kept for quality and
small size. Female plant. Perennial. Seed.

PI 555438 **origin:** United States. **cultivar:** MEDJOOL BC4. **other id:**
69-156-52. **remarks:** Male plant. Perennial. Seed.

PI 555439 **origin:** United States. **cultivar:** MEDJOOL BC3. **other id:**
69-157-51. **remarks:** Male plant. Perennial. Seed.

PI 555440 **origin:** United States. **cultivar:** TAZIZOOT BC3. **other**
id: 69-158-51. **remarks:** Male plant. Perennial. Seed.

PI 555441. Phoenix dactylifera L. ARECACEAE Date

Received .

origin: UNKNOWN. **cultivar:** HILALI. **other id:** 58-352-1.
remarks: Male plant. Perennial. Cutting.

PI 555442. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: Hayes, B.H., U.S. Date and Citrus Station, Indio, California, United States. Received January 01, 1924.

origin: United States. **cultivar:** HAZIZ. **other id:** 78-24. **remarks:** Named for B. H. Hayes who developed variety at Indio, California. Fruit somewhat similar to Halawy but larger, sometimes has dry portions at base. Mild, pleasing flavor, midseason ripening. Slightly less susceptible to rain damage than Deglet Noor. Female plant. Perennial. Cutting.

PI 555443. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: Brown, Tom, Coachella, California, United States. Received January 01, 1978.

origin: United States. **cultivar:** JARVIS #1. **other id:** 78-11. **remarks:** Early flowering. Numerous, large inflorescences produce large amount of pollen. Pollen excellent for use on Deglet Noor flowers. Large numbers of offshoots. Male plant. Perennial. Cutting.

PI 555444. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. Received January 01, 1963.

origin: United States. **cultivar:** KHADRAWY BC3. **other id:** 63-394-25. **remarks:** Male plant. Perennial. Seed.

PI 555445. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Indio, California, United States. Received January 01, 1962.

origin: United States. **cultivar:** THOORY BC3. **other id:** 62-431-3. **remarks:** Male plant. Perennial. Seed.

PI 555446. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Brawley, California, United States. Received January 01, 1971.

origin: United States. **pedigree:** Thoory x (Dayri x Deglet Noor). **other id:** 71-14-1. **remarks:** Medium brown. Promising semidry. Good flavor and texture. Female plant. Perennial. Seed.

PI 555447 to 555448. *Phoenix dactylifera* L. ARECACEAE Date

Donated by: U.S. Date and Citrus Station, Brawley, California, United States. Received January 01, 1978.

PI 555447 **origin:** United States. **other id:** 78-3-2. **remarks:** Male plant. Perennial. Seed.

PI 555448 **origin:** United States. **other id:** 78-4-2. **remarks:** Male plant. Perennial. Seed.

PI 555449. *Hordeum vulgare* L. POACEAE Barley

Donated by: Risius, M.L., Pennsylvania Agr. Exp. Sta., Pennsylvania State University, University Park, Pennsylvania, United States. Received September 10, 1991.

origin: United States. **origin institute:** Pennsylvania Agr. Exp. Sta., Pennsylvania. **cultivar:** PENNBAR 66. **pedigree:** Harrison/3/Cebada Capa/Wong//Awnleted Hudson Sel./4/Hanover /Jefferson//Barsoy. **other id:** PA8444-66. **other id:** PVP 9200049. **source:** Pending. **group:** PVPO. **remarks:** Six-rowed, hulled, feed variety. Spike with rough awns. Heads semi-nodding to nodding at maturity. Stem neck straight. Exhibits moderate field resistance to the causal organisms of leaf rust (*Puccinia hordei*), net blotch (*Pyrenophora teres*) and scald (*Rhynchosporium secalis*) prevalent in Pennsylvania. Winterhardiness is comparable to that of Pennco and Maury. Winter Annual. Cultivar. Seed.

PI 555450. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Miller, D.A., Illinois Agr. Exp. Sta., University of Illinois, Urbana, Illinois, United States. Received September 10, 1991.

origin: United States. **origin institute:** Illinois Agr. Exp. Sta., University of Illinois, Urbana, Illinois 61801. **cultivar:** IL 83-2. **pedigree:** Selection from WL303, Saranac, Honeoye, and Vernal. **other id:** GP-193. **source:** Crop Sci. 26(4):837 1986. **group:** CSR-ALFALFA. **remarks:** Over 35% branched-rooted plants. Resistance good to heaving. Good winterhardiness. 58% resistant to bacterial wilt. Exhibits rapid establishment under less than ideal conditions. Maybe useful as a source of branched rooted characteristics for future breeding programs in the development of cultivars for shallow soils or resistance to heaving. Perennial. Breeding Material. Seed.

PI 555451. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Caddel, J.L., Oklahoma Agr. Exp. Sta., Oklahoma State University, Stillwater, Oklahoma, United States. **remarks:** OK 51 Alfalfa Germplasm. Received September 10, 1991.

origin: United States. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Oklahoma 74078-0507. **cultivar:** OK 51. **pedigree:** Selection from WL 314. **other id:** GP-257. **group:** CSR-ALFALFA. **remarks:** Moderately fall dormant. Flower color >99% purple and <1% variegated. Growth habit erect in mid-summer and semi-erect in fall. Susceptible to *Aphanomyces* root rot (*Aphanomyces euteiches*) and anthracnose (Race 1) (*Colletotrichum trifolii*). Resistance to spotted alfalfa aphid (*Therioaphis maculata*) and blue alfalfa aphid (*Acyrtosiphon kondoi*) collected in Oklahoma, fusarium wilt (*Fusarium oxysporum*),. Perennial. Breeding Material. Seed.

PI 555452. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Caddel, J.L., Oklahoma Agr. Exp. Sta., Oklahoma State University, Stillwater, Oklahoma, United States. **remarks:** OK 85 Alfalfa Germplasm. Received September 10, 1991.

origin: United States. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Stillwater, Oklahoma 74078-0507. **cultivar:** OK 85. **pedigree:** Selection from 23 cultivars. **other id:** GP-258. **group:** CSR-ALFALFA. **remarks:** Moderately fall dormant. Flower color 95% purple, 3% variegated and 2% yellow or cream. Growth habit erect in mid-summer and semi-erect in fall. Susceptible to *Aphanomyces* root rot (*A. euteiches*) and anthracnose (Race 1) (*Colletotrichum trifolii*). Resistance to spotted alfalfa aphid (*Therioaphis maculata*) and blue alfalfa aphid (*Acyrtosiphon kondoi*) collected in Oklahoma and fusarium. Perennial. Breeding Material. Seed.

PI 555453. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Shipe, E.R., South Carolina Agr. Exp. Sta., Clemson University, Clemson, South Carolina, United States. **remarks:** Hagood Soybean. Received September 10, 1991.

origin: United States. **origin institute:** South Carolina Agr. Exp. Sta., Clemson University, Clemson, South Carolina 29634-0359. **cultivar:** Hagood. **pedigree:** Centennial x Young. **other id:** SC84-818. **other id:** CV-296. **group:** CSR-SOYBEAN. **remarks:** Maturity Group VII matures October 20-27 in the Southern U.S. Growth habit determinate. Flowers white. Pubescence gray. Pod walls tan. Mature plants average 93-98cm in height. Seed yellow with variable buff hila. Seed size averages 14.2 g/100 seed. Seed protein and oil averaged 42.3% and 20.1%, respectively, over 28 environments in the Southern U.S., 1988-1990. Resistant to soybean cyst nematode. Spring Annual. Cultivar. Seed.

PI 555454. *Beta vulgaris* L. CHENOPODIACEAE Sugar beet

Donated by: Campbell, L.G., Agricultural Research Service -- USDA, Northern Crop Science Lab., Fargo, North Dakota, United States. Received September 10, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., Fargo, North Dakota 58105-5677. **cultivar:** F1011. **pedigree:** Selected (six cycles) from PI 266100 (originally from Poland). **other id:** GP-134. **group:** CSR-SUGARBEET. **remarks:** 167 accessions of the NC-7 Beta collection were screened for high sucrose concentration. High sucrose individuals from lines with above average sucrose were selected for 6 cycles. Hypocotyls pink. Seed multigerm. Sucrose concentration was 1.2% greater than Ultramono, a commercial hybrid. Root yield was 60% of Ultramono. Biennial. Breeding Material. Seed.

PI 555455. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Nunhems Seed Corporation, United States. Received September 11, 1991.

origin: United States. **origin institute:** Nunhems Seed Corporation. **cultivar:** FESCA. **other id:** PVP 9100212. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555456. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Pioneer Hi-Bred International, Inc., United States. Received September 11, 1991.

PI 555456-continued

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHA331. **other id:** PVP 9100232. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555457. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Pioneer Hi-Bred International, Inc., United States. Received September 11, 1991.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PHB331. **other id:** PVP 9100233. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555458. *Triticum aestivum* L. POACEAE Wheat

Donated by: Utah Agr. Exp. Sta., Utah, United States. Received September 11, 1991.

origin: United States. **origin institute:** Utah Agr. Exp. Sta., Utah. **cultivar:** PROMONTORY. **other id:** PVP 9100244. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555459. *Dactylis glomerata* L. POACEAE Orchardgrass

Donated by: University of Missouri, Missouri, United States. Received September 11, 1991.

origin: United States. **origin institute:** University of Missouri, Missouri. **cultivar:** JUSTUS. **other id:** PVP 9100245. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555460. *Lactuca sativa* L. ASTERACEAE Lettuce

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

origin: United States. **origin institute:** Genecorp, Inc.. **cultivar:** PRO 917. **other id:** PVP 9100246. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555461. *Lactuca sativa* L. ASTERACEAE Lettuce

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

origin: United States. **origin institute:** Genecorp, Inc..
cultivar: BASORE 920. **other id:** PVP 9100247. **source:**
Pending. **group:** PVPO. Cultivar. Seed.

PI 555462. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received September 11, 1991.

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** F118. **other id:** PVP 9100248.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 555463. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ziller Seed Farms, Inc., United States. Received September 11, 1991.

origin: United States. **origin institute:** Ziller Seed Farms, Inc.. **cultivar:** BT1422. **other id:** PVP 9100249.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 555464. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ziller Seed Farms, Inc., United States. Received September 11, 1991.

origin: United States. **origin institute:** Ziller Seed Farms, Inc.. **cultivar:** BT 2877. **other id:** PVP 9100250.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 555465. *Triticum aestivum* L. POACEAE Wheat

Donated by: Ohio State University - OARDC, Ohio, United States. Received September 11, 1991.

origin: United States. **origin institute:** Ohio State University - OARDC, Ohio. **cultivar:** EXCEL. **other id:** PVP 9100251. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555466. *Brassica napus* L. BRASSICACEAE Rape

Donated by: Plant Breeding International, United States. Received September 11, 1991.

origin: United States. origin institute: Plant Breeding International. cultivar: CAPRICORN. other id: PVP 9100252. source: Pending. group: PVPO. Cultivar. Seed.

PI 555467. *Brassica napus* L. BRASSICACEAE Rape

Donated by: Plant Breeding International, United States. Received September 11, 1991.

origin: United States. origin institute: Plant Breeding International. cultivar: CORVETTE. other id: PVP 9100253. source: Pending. group: PVPO. Cultivar. Seed.

PI 555468. *Nicotiana acaulis* Speg. SOLANACEAE

Received .

origin: Argentina. other id: TW 1. other id: 1. Annual. Wild. Seed.

PI 555469. *Nicotiana acuminata* (Graham) Hook. SOLANACEAE

Donated by: North Carolina Agr. Exp. Sta., North Carolina, United States. Received 1977.

origin: UNKNOWN. other id: TW 4. other id: 50B. Annual. Wild. Seed.

PI 555470. *Nicotiana acuminata* (Graham) Hook. SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received .

origin: UNKNOWN. other id: TW 3. other id: 2A. Annual. Wild. Seed.

PI 555471. *Nicotiana acuminata* (Graham) Hook. SOLANACEAE

Received .

origin: UNKNOWN. other id: TW 2. other id: 2. Annual. Wild. Seed.

PI 555472. *Nicotiana africana* Merxm. SOLANACEAE

Donated by: North Carolina Agr. Exp. Sta., North Carolina, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 6. **other id:** 71. Annual.
Wild. Seed.

PI 555473. *Nicotiana alata* Link & Otto SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1961.

origin: UNKNOWN. **other id:** TW 9. **other id:** 5926.
Annual. Wild. Seed.

PI 555474. *Nicotiana alata* Link & Otto SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. **other id:** TW 8. **other id:** 4. Annual.
Wild. Seed.

PI 555475. *Nicotiana arentsii* Goodsp. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1974.

origin: UNKNOWN. **other id:** TW 12. **other id:** 6. Annual.
Wild. Seed.

PI 555476. *Nicotiana attenuata* Torrey ex S. Watson SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 13. **other id:** 7. Annual.
Wild. Seed.

PI 555477. *Nicotiana benavidesii* Goodsp. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1974.

origin: UNKNOWN. **other id:** TW 15. **other id:** 8. Annual.
Wild. Seed.

PI 555478. *Nicotiana benthamiana* Domin SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 16. other id: 9. Annual.
Wild. Seed.

PI 555479 to 555484. *Nicotiana bigelovii* (Torrey) S. Watson SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1961.

PI 555479 origin: UNKNOWN. other id: TW 21. other id: 5938.
Annual. Wild. Seed.

PI 555480 origin: UNKNOWN. other id: TW 22. other id: 5939.
Annual. Wild. Seed.

PI 555481 origin: UNKNOWN. other id: TW 23. other id: 5940.
Annual. Wild. Seed.

PI 555482 origin: UNKNOWN. other id: TW 24. other id: 5941.
Annual. Wild. Seed.

PI 555483 origin: UNKNOWN. other id: TW 25. other id: 5942.
Annual. Wild. Seed.

PI 555484 origin: UNKNOWN. other id: TW 26. other id: 5943.
Annual. Wild. Seed.

PI 555485 to 555487. *Nicotiana bigelovii* (Torrey) S. Watson SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

PI 555485 origin: UNKNOWN. other id: TW 18. other id: 10.
Annual. Wild. Seed.

PI 555486 origin: UNKNOWN. other id: TW 19. other id: 12.
Annual. Wild. Seed.

PI 555487 origin: UNKNOWN. other id: TW 20. other id: 13.
Annual. Wild. Seed.

PI 555488. *Nicotiana bigelovii* (Torrey) S. Watson SOLANACEAE

Donated by: Jares, T., Dept. of Plant Pathology, Cornell Univ., 334 Plant Science Bldg., Ithaca, New York, United States. Received 1983.

PI 555488-continued

origin: UNKNOWN. other id: TW 27. Annual. Wild.

PI 555489. *Nicotiana bonariensis* Lehm. SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. other id: TW 28. other id: 11.
Annual. Wild. Seed.

PI 555490. *Nicotiana clevelandii* A. Gray SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1961.

origin: UNKNOWN. other id: TW 31. other id: 5947.
Annual. Wild. Seed.

PI 555491. *Nicotiana clevelandii* A. Gray SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 30. other id: 14.
Annual. Wild. Seed.

PI 555492. *Nicotiana clevelandii* A. Gray SOLANACEAE

Donated by: Plant Virus Indicator Col, UNKNOWN. Received 1975.

origin: UNKNOWN. other id: TW 32. other id: GRAY.
Annual. Wild. Seed.

PI 555493. *Nicotiana cordifolia* Philippi SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 33. other id: 15.
Annual. Wild. Seed.

PI 555494. *Nicotiana cordifolia* Philippi SOLANACEAE

Donated by: North Carolina Agr. Exp. Sta., North Carolina, United States. Received 1977.

PI 555494-continued

origin: UNKNOWN. other id: TW 34. other id: 15A.
Annual. Wild. Seed.

PI 555495 to 555498. *Nicotiana debneyi* Domin SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville,
Maryland, United States. Received 1961.

PI 555495 origin: UNKNOWN. other id: TW 41. other id: 5950.
Annual. Wild. Seed.

PI 555496 origin: UNKNOWN. other id: TW 42. other id: 5951.
Annual. Wild. Seed.

PI 555497 origin: UNKNOWN. other id: TW 43. other id: 5953.
Annual. Wild. Seed.

PI 555498 origin: UNKNOWN. other id: TW 44. other id: 5955.
Annual. Wild. Seed.

PI 555499. *Nicotiana debneyi* Domin SOLANACEAE

Donated by: Plant Virus Indicator Col, UNKNOWN. Received 1975.

origin: UNKNOWN. other id: TW 45. Annual. Wild. Seed.

PI 555500. *Nicotiana exigua* Wheeler SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville,
Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 48. other id: 20.
Annual. Wild. Seed.

PI 555501. *Nicotiana forgetiana* Hort. ex Hemsley SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United
States. Received 1977.

origin: UNKNOWN. other id: TW 50. other id: 21A.
Annual. Wild. Seed.

PI 555502. *Nicotiana forgetiana* Hort. ex Hemsley SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville,
Maryland, United States. Received 1962.

PI 555502-continued

origin: UNKNOWN. **other id:** TW 51. **other id:** 21B.
Annual. Wild. Seed.

PI 555503. *Nicotiana fragrans* Hook. SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 52. **other id:** 22.
Annual. Wild. Seed.

PI 555504. *Nicotiana glauca* Graham SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. **other id:** TW 53. **other id:** 23.
Annual. Wild. Seed.

PI 555505 to 555506. *Nicotiana glutinosa* L. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1961.

PI 555505 **origin:** UNKNOWN. **other id:** TW 61. **other id:** 5928.
Annual. Wild. Seed.

PI 555506 **origin:** UNKNOWN. **other id:** TW 62. **other id:** 5963.
Annual. Wild. Seed.

PI 555507. *Nicotiana glutinosa* L. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. **other id:** TW 58. **other id:** 24.
Annual. Wild. Seed.

PI 555508 to 555509. *Nicotiana glutinosa* L. SOLANACEAE

Donated by: Plant Virus Indicator Col, UNKNOWN. Received 1976.

PI 555508 **origin:** UNKNOWN. **other id:** TW 63. Annual. Wild. Seed.

PI 555509 **origin:** UNKNOWN. **other id:** TW 64. Annual. Wild. Seed.

PI 555510. *Nicotiana glutinosa* L. SOLANACEAE

Donated by: Plant Virus Indicator Col, UNKNOWN. Received 1975.

origin: UNKNOWN. **other id:** TW 59. **other id:** 24A.
Annual. Wild. Seed.

PI 555511. *Nicotiana glutinosa* L. SOLANACEAE

Donated by: Plant Virus Indicator Col, UNKNOWN. Received 1979.

origin: UNKNOWN. **other id:** TW 65. Annual. Wild. Seed.

PI 555512. *Nicotiana glutinosa* L. SOLANACEAE

Donated by: Jares, T., Dept. of Plant Pathology, Cornell Univ., 334 Plant Science Bldg., Ithaca, New York, United States. Received 1983.

origin: UNKNOWN. **other id:** TW 66. Annual. Wild. Seed.

PI 555513 to 555514. *Nicotiana* hybrid SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1961.

PI 555513 **origin:** UNKNOWN. **pedigree:** TABACUM X GLUTINOSA. **other id:** TH 44. **other id:** 5983. Annual. Cultivated. Seed.

PI 555514 **origin:** UNKNOWN. **pedigree:** TABACUM X GLAUCA. **other id:** TH 45. **other id:** 5984. Annual. Cultivated. Seed.

PI 555515 to 555524. *Nicotiana* hybrid SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

PI 555515 **origin:** UNKNOWN. **pedigree:** 4N(big x tab). **other id:** TH 1. **other id:** B1. Annual. Cultivated. Seed.

PI 555516 **origin:** UNKNOWN. **pedigree:** 4N(tab x sua). **other id:** TH 2. **other id:** B4. Annual. Cultivated. Seed.

PI 555517 **origin:** UNKNOWN. **pedigree:** 4N(tab x glu). **other id:** TH 4. **other id:** B6. Annual. Cultivated. Seed.

PI 555518 **origin:** UNKNOWN. **pedigree:** 4N(deb x tab). **other id:** TH 5. **other id:** B7. Annual. Cultivated. Seed.

PI 555515 to 555524-continued

PI 555519 **origin:** UNKNOWN. **pedigree:** 4N(tab x lon). **other id:** TH 8. **other id:** B14. Annual. Cultivated. Seed.

PI 555520 **origin:** UNKNOWN. **pedigree:** 4N(glu x tab). **other id:** TH 10. **other id:** B17. Annual. Cultivated. Seed.

PI 555521 **origin:** UNKNOWN. **pedigree:** 4N(tab x kni). **other id:** TH 12. **other id:** B21. Annual. Cultivated. Seed.

PI 555522 **origin:** UNKNOWN. **pedigree:** 4N(big-deb-tab). **other id:** TH 16. **other id:** B29. Annual. Cultivated. Seed.

PI 555523 **origin:** UNKNOWN. **pedigree:** 4N(rep x syl). **other id:** TH 21. **other id:** B38. Annual. Cultivated. Seed.

PI 555524 **origin:** UNKNOWN. **pedigree:** 4N(glu x syl). **other id:** TH 24. **other id:** B45. Annual. Cultivated. Seed.

PI 555525. *Nicotiana* hybrid SOLANACEAE

Donated by: North Carolina USDA, ARS, North Carolina, United States.
Received 1970.

origin: UNKNOWN. **pedigree:** 4N(tab x nud). **other id:** TH 29. **other id:** B52. Annual. Cultivated. Seed.

PI 555526. *Nicotiana* hybrid SOLANACEAE

Donated by: Plant Virus Indicator Col, UNKNOWN. **Received** 1976.

origin: UNKNOWN. **pedigree:** CLEVELANDII X GLUTI. **other id:** TH 46. Annual. Cultivated. Seed.

PI 555527. *Nicotiana knightiana* Goodsp. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. **Received** 1962.

origin: United States. **other id:** TW 73. **other id:** 27. Annual. Wild. Seed.

PI 555528. *Nicotiana langsдорffii* J. A. Weinm. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. **Received** 1961.

origin: UNKNOWN. **other id:** TW 76. **other id:** 604. Annual. Wild. Seed.

PI 555529. *Nicotiana langsdorffii* J. A. Weinm. SOLANACEAE

Donated by: North Carolina USDA, ARS, North Carolina, United States.
Received 1978.

origin: UNKNOWN. **other id:** TW 75. **other id:** 28B.
Annual. Wild. Seed.

PI 555530. *Nicotiana linearis* Philippi SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville,
Maryland, United States. Received 1962.

origin: UNKNOWN. **other id:** TW 77. **other id:** 29.
Annual. Wild. Seed.

PI 555531 to 555532. *Nicotiana longiflora* Cav. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville,
Maryland, United States. Received 1962.

PI 555531 **origin:** UNKNOWN. **other id:** TW 78. **other id:** 30.
Annual. Wild. Seed.

PI 555532 **origin:** UNKNOWN. **other id:** TW 79. **other id:** 30A.
Annual. Wild. Seed.

PI 555533 to 555534. *Nicotiana longiflora* Cav. SOLANACEAE

Donated by: North Carolina Agr. Exp. Sta., North Carolina, United
States. Received 1977.

PI 555533 **origin:** UNKNOWN. **other id:** TW 80. **other id:** 30B.
Annual. Wild. Seed.

PI 555534 **origin:** UNKNOWN. **other id:** TW 81. **other id:** 30C.
Annual. Wild. Seed.

PI 555535. *Nicotiana maritima* Wheeler SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United
States. Received 1977.

origin: UNKNOWN. **other id:** TW 82. **other id:** 31.
Annual. Wild. Seed.

PI 555536. *Nicotiana megalosiphon* Van Heurck & Mull. Arg. SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 83. **other id:** 32.
Annual. Wild. Seed.

PI 555537. *Nicotiana miersii* J. Remy SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. **other id:** TW 85. **other id:** 33.
Annual. Wild. Seed.

PI 555538. *Nicotiana nesophila* I. M. Johnst. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. **other id:** TW 86. **other id:** 34.
Annual. Wild. Seed.

PI 555539. *Nicotiana nesophila* I. M. Johnst. SOLANACEAE

Donated by: North Carolina Agr. Exp. Sta., North Carolina, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 87. **other id:** 34A.
Annual. Wild. Seed.

PI 555540. *Nicotiana nudicaulis* S. Watson SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 90. **other id:** 36.
Annual. Wild. Seed.

PI 555541. *Nicotiana occidentalis* Wheeler SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. **other id:** TW 91. **other id:** 37.
Annual. Wild. Seed.

PI 555542. *Nicotiana otophora* Griseb. SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 94. **other id:** 38.
Annual. Wild. Seed.

PI 555543. *Nicotiana palmeri* A. Gray SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 98. **other id:** 39.
Annual. Wild. Seed.

PI 555544. *Nicotiana paniculata* L. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1961.

origin: UNKNOWN. **other id:** TW 103. **other id:** 5929.
Annual. Wild. Seed.

PI 555545. *Nicotiana paniculata* L. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. **other id:** TW 99. **other id:** 40.
Annual. Wild. Seed.

PI 555546. *Nicotiana pauciflora* J. Remy SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 104. **other id:** 41.
Annual. Wild. Seed.

PI 555547. *Nicotiana petunioides* (Griseb.) Millan SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 105. **other id:** 42.
Annual. Wild. Seed.

PI 555548. *Nicotiana plumbaginifolia* Viv. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 106. other id: 43A.
Annual. Wild. Seed.

PI 555549. *Nicotiana raimondii* Macbr. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 109. other id: 45.
Annual. Wild. Seed.

PI 555550. *Nicotiana raimondii* Macbr. SOLANACEAE

Donated by: North Carolina Agr. Exp. Sta., North Carolina, United States. Received 1977.

origin: UNKNOWN. other id: TW 102. other id: 40C.
Annual. Wild. Seed.

PI 555551. *Nicotiana repanda* Willd. ex Lehm. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1961.

origin: UNKNOWN. other id: TW 111. other id: 5930.
Annual. Wild. Seed.

PI 555552. *Nicotiana repanda* Willd. ex Lehm. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 110. other id: 46.
Annual. Wild. Seed.

PI 555553. *Nicotiana rotundifolia* Lindley SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 114. other id: 47.
Annual. Wild. Seed.

PI 555554 to 555555. *Nicotiana rustica* L. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

PI 555554 **origin:** UNKNOWN. **other id:** TW 117. **other id:** 48.
Annual. Wild. Seed.

PI 555555 **origin:** UNKNOWN. **other id:** TW 118. **other id:** 49.
Annual. Wild. Seed.

PI 555556. *Nicotiana rustica* L. SOLANACEAE

Donated by: Plant Virus Indicator Col, UNKNOWN. Received 1975.

origin: UNKNOWN. **other id:** TR 70. Annual. Cultivated.
Seed.

PI 555557. *Nicotiana setchellii* Goodsp. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1978.

origin: UNKNOWN. **other id:** TW 121. **other id:** 51.
Annual. Wild. Seed.

PI 555558. *Nicotiana solanifolia* Walp. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1978.

origin: UNKNOWN. **other id:** TW 123. **other id:** 52.
Annual. Wild. Seed.

PI 555559. *Nicotiana spegazzinii* Millan SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1964.

origin: UNKNOWN. **other id:** TW 125. **other id:** GRB.
Annual. Wild. Seed.

PI 555560. *Nicotiana stocktonii* T. S. Brandegees SOLANACEAE

Donated by: Sisson, V., USDA, ARS, Tobacco Research Laboratory, Oxford, North Carolina, United States. Received 1977.

origin: UNKNOWN. **other id:** TW 126. **other id:** 54.
Annual. Wild. Seed.

PI 555561. *Nicotiana suaveolens* Lehm. SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1968.

origin: UNKNOWN. **other id:** TW 133. **other id:** 5974.
Annual. Wild. Seed.

PI 555562 to 555564. *Nicotiana suaveolens* Lehm. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1961.

PI 555562 **origin:** UNKNOWN. **other id:** TW 132. **other id:** 5924.
Annual. Wild. Seed.

PI 555563 **origin:** UNKNOWN. **other id:** TW 134. **other id:** 5976.
Annual. Wild. Seed.

PI 555564 **origin:** UNKNOWN. **other id:** TW 135. **other id:** 5977.
Annual. Wild. Seed.

PI 555565. *Nicotiana suaveolens* Lehm. SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received .

origin: UNKNOWN. **other id:** TW 127. **other id:** 18.
Annual. Wild. Seed.

PI 555566. *Nicotiana suaveolens* Lehm. SOLANACEAE

Donated by: North Carolina USDA, ARS, North Carolina, United States. Received 1970.

origin: UNKNOWN. **other id:** TW 129. **other id:** 55A.
Annual. Wild. Seed.

PI 555567 to 555568. *Nicotiana suaveolens* Lehm. SOLANACEAE

Donated by: North Carolina Agr. Exp. Sta., North Carolina, United States. Received 1977.

PI 555567 **origin:** Zimbabwe. **other id:** TW 130. **other id:** 55B.
Annual. Wild. Seed.

PI 555568 **origin:** Belgium. **other id:** TW 131. **other id:** 55C.
Annual. Wild. Seed.

PI 555569. *Nicotiana sylvestris* Speg. & O. Comes SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 136. other id: 56.
Annual. Wild. Seed.

PI 555570. *Nicotiana sylvestris* Speg. & O. Comes SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. other id: TW 137. other id: 56A.
Annual. Wild. Seed.

PI 555571. *Nicotiana sylvestris* Speg. & O. Comes SOLANACEAE

Donated by: Plant Virus Indicator Col, UNKNOWN. Received 1976.

origin: UNKNOWN. other id: TW 138. Annual. Wild.
Seed.

PI 555572. *Nicotiana tomentosiformis* Goodsp. SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 142. other id: 59.
Annual. Wild. Seed.

PI 555573. *Nicotiana trigonophylla* Dunal SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1977.

origin: UNKNOWN. other id: TW 143. other id: 60.
Annual. Wild. Seed.

PI 555574. *Nicotiana undulata* Ruiz Lopez & Pavon SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1962.

origin: UNKNOWN. other id: TW 145. other id: 61A.
Annual. Wild. Seed.

PI 555575. *Nicotiana undulata* Ruiz Lopez & Pavon SOLANACEAE

Donated by: North Carolina USDA, ARS, North Carolina, United States.
Received 1970.

origin: UNKNOWN. **other id:** TW 146. **other id:** 61B.
Annual. Wild. Seed.

PI 555576 to 555577. *Nicotiana x sanderae* Will. Watson SOLANACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville,
Maryland, United States. Received 1961.

PI 555576 **origin:** UNKNOWN. **other id:** TW 156. **other id:** 5931.
Annual. Wild. Seed.

PI 555577 **origin:** UNKNOWN. **other id:** TW 157. **other id:** 5972.
Annual. Wild. Seed.

PI 555578. *Nicotiana x sanderae* Will. Watson SOLANACEAE

Donated by: Beltsville USDA, ARS, Beltsville, Maryland, United
States. Received 1977.

origin: UNKNOWN. **other id:** TW 152. **other id:** 50A.
Annual. Wild. Seed.

PI 555579 to 555581. *Nicotiana x sanderae* Will. Watson SOLANACEAE

Donated by: North Carolina Agr. Exp. Sta., North Carolina, United
States. Received 1977.

PI 555579 **origin:** UNKNOWN. **other id:** TW 153. **other id:** 50B.
Annual. Wild. Seed.

PI 555580 **origin:** UNKNOWN. **other id:** TW 154. **other id:** 50C.
Annual. Wild. Seed.

PI 555581 **origin:** UNKNOWN. **other id:** TW 155. **other id:** 50D.
Annual. Wild. Seed.

PI 555582 to 555585. *Hordeum vulgare* L. POACEAE Barley

Donated by: Kolding, M.F., Oregon Agr. Exp. Sta., 1910 SW 44,
Pendleton, Oregon, United States. Received September 20, 1991.

- PI 555582 **origin:** United States. **origin institute:** Oregon Agr. Exp. Sta., Pendleton, Oregon 97801. **cultivar:** FB81019. **pedigree:** Lakeland/Kmk,E822/FB79204,J126/WA1245-68,FB763054/FB76030, Dto/Ccd//Hiproly/3/Heines Hanna/Julia//A989. **remarks:** Six-row, mid-short, semi-prostrate winter habit, with awned, semi-dense spikes. Stem normal. Kernels covered, white hulled with white aleurone. Basal rachis short straight with edge hairs short to wanting. Lemma awns rough. Lemma hairs wanting. Lemma base depressed. Collar closed. Glume awn normal. Adaptation to irrigated soils and areas where Barley Yellow Dwarf Virus is a problem in Oregon. Breeding Material. Seed.
- PI 555583 **origin:** United States. **origin institute:** Oregon Agr. Exp. Sta., Pendleton, Oregon 97801. **cultivar:** FB84221-91A. **pedigree:** Ltr/Oly//Alpine, OR7107/Hiproly, FB77818/3/MN 66-85/Calaya/2 /OR7107/Hiproly. **remarks:** Six-row, medium height, semi-prostrate, winter habit, with rough awned, lax spikes. Stem normal. Kernels covered, white hulled with white aleurone. Basal rachis short, straight. Collar varies from open to closed. Glume awn normal. Lemma hairs wanting. Lemma awns rough. Lemma nerves near smooth and prominent. Lemma base is depression. Adaptation to irrigated soils and areas where Barley Yellow Dwarf Virus is. Breeding Material. Seed.
- PI 555584 **origin:** United States. **origin institute:** Oregon Agr. Exp. Sta., Pendleton, Oregon 97801. **cultivar:** FB84435-91A. **pedigree:** Belts 67-1608/Sir/3/Dto/Ccd//Hiproly, FB75019/FB77818-85Hy, Lth/Oly//Apn, OR7107/Hiproly/2/MB763167-917, German Introduction/WA 1356-70/2/Ione/Ltr. Pedigree in short form:FB75019/FB77818/2/MB763167. **remarks:** Six-row, medium height, near prostrate winter habit with rough awned, mid-dense spikes with tendency to become dense near proximal end of spike. Kernels covered. Hull white. Aleurone white. Basal rachis short-straight. Collar closed. Glume awn normal. Rachilla tend to smooth. Adapted to irrigation. Exhibited excellent tolerance to fall infestations of Barley Yellow Dwarf Virus in eastern Oregon. Breeding Material. Seed.

PI 555582 to 555585-continued

PI 555585 **origin:** United States. **origin institute:** Oregon Agr. Exp. Sta., Pendleton, Oregon 97801. **cultivar:** FB84435-91B. **pedigree:** Belts 67-1608/Sir/3/Dto/Ccd//Hiproly, FB75019/FB77818-85Hy, Lth/Oly//Apn, OR7107/Hiproly/2/MB763167-917, German Introduction/WA 1356-70/2/Ione/Ltr. Pedigree in short form:FB75019/FB77818/2/MB763167. **remarks:** Six-row, medium height, near prostrate winter habit with rough awned, mid-dense spikes. Kernels covered. Hull white. Aleurone white. Basal rachis short-straight. Glume awn normal. Rachilla normal hairy. Rachis edge normal long haired. Adapted to irrigation. Exhibited excellent tolerance to fall infestations of Barley Yellow Dwarf Virus in eastern Oregon. Moderately resistant to Barley Leaf. Breeding Material. Seed.

PI 555586. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Forsberg, R.A., Wisconsin Agr. Exp. Sta., University of Wisconsin, Madison, Wisconsin, United States. Received September 20, 1991.

origin: United States. **origin institute:** Wisconsin Agr. Exp. Sta., University of Wisconsin, Madison, Wisconsin 53706. **cultivar:** GLACIER. **pedigree:** OH 112/Argee/2/Argee. **other id:** X1625-1-1. **remarks:** Bearded, white-chaffed, soft, red winter variety. Higher grain yield averages than both Agree and Merrimac while retaining the high level of winterhardiness typical of Agree and Merrimac. 2-4 days earlier, 2-5 inches shorter, and has stiffer straw than Agree and Merrimac. Excellent milling and baking quality. Excellent winterhardiness. High resistance to leaf rust, the barley yellow dwarf. Winter Annual. Cultivar. Seed.

PI 555587. *Desmanthus illinoensis* (Michaux) MacMillan ex Robinson & Fern. FABACEAE

Donated by: Sperling, C.R., National Germplasm Resources Lab, USDA-ARS, Rm. 329, B-001, Beltsville, Maryland, United States. Received September 12, 1991.

PI 555587-continued

origin: United States. **collected:** September 06, 1991.
locality: In moist sand along lake shore where spring
wind driven ice disturbs soil. Approx. 4.8km E of town of
Herman on State Hwy. #27, SE corner of Long Lake, Grant
County, Minnesota. (SE1/4, SW1/4 Sec. 8 T127N R43W).
remarks: Plants to 2ft. tall, few producing seed. Growing
among *Scripus* sp. and *Bidens* sp. Infrequent at this site,
the northernmost for the species, and rare in the region.
Herbarium voucher no. 4184 collected 08/17/78 by C.R.
Sperling. Wild. Seed.

PI 555588 to 555596. *Abelmoschus esculentus* (L.) Moench MALVACEAE
Okra

Donated by: Hamon, S., Laboratoire de Genetique,, Centre
d'Adiopodoume, ORSTOM, Abidjan, Ivory Coast. **remarks:** Received
through IBPGR, Rome, Italy. Received June 28, 1989.

PI 555588 **donor id:** ORS 2915. **origin:** Sudan. Seed.

PI 555589 **donor id:** ORS 2916. **origin:** Nepal. **locality:** Ghorahi.
Seed.

PI 555590 **donor id:** ORS 2918. **origin:** Nepal. **locality:** Chisapa.
Seed.

PI 555591 **donor id:** ORS 2919. **origin:** Nepal. **locality:** Chisapa.
Seed.

PI 555592 **donor id:** ORS 2967. **origin:** Nigeria. **locality:** Chisapa.
Seed.

PI 555593 **donor id:** ORS 2974. **origin:** Nigeria. Seed.

PI 555594 **donor id:** ORS 3020. **origin:** Nigeria. **locality:**
Abeokuta, Ogun Province. **latitude:** 07 deg. 10 min. N.
longitude: 003 deg. 21 min. E. Seed.

PI 555595 **donor id:** ORS 3021. **origin:** Nigeria. **locality:**
Abeokuta, Ogun Province. **latitude:** 07 deg. 10 min. N.
longitude: 003 deg. 21 min. E. Seed.

PI 555596 **donor id:** ORS 3043. **origin:** Nigeria. **locality:** Ibadan,
Oyo Province. **latitude:** 07 deg. 22 min. N. **longitude:**
003 deg. 51 min. E. Seed.

PI 555597. *Capsicum* sp. SOLANACEAE

Donated by: Fery, R.L., USDA/ARS/SAA, U.S. Vegetable Laboratory,
2875 Savannah Highway, Charleston, South Carolina, United States.
Received September 04, 1991.

origin: United States. **cultivar:** SANTAKA. **remarks:**
Tolerance to Bentazon herbicide. Possesses *Xanthomonas*
tolerance. Cultivar. Seed.

PI 555598 to 555600. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Vegetable and Flower Research Institute, Beijing, China.
Received September 04, 1991.

PI 555598 **donor id:** II6C0073. **origin:** China. **cultivar:** LIAO JIAO
1 HAO. Cultivar. Seed.

PI 555599 **donor id:** II6C0591. **origin:** China. **cultivar:** SHUANG FU
TIAN JIAO. Cultivar. Seed.

PI 555600 **donor id:** II6C0820. **origin:** China. **cultivar:** TONG AN
XIAO MI JIAO. Cultivar. Seed.

PI 555601 to 555604. *Solanum melongena* L. SOLANACEAE Eggplant

Donated by: Vegetable and Flower Research Institute, Beijing, China.
Received September 04, 1991.

PI 555601 **donor id:** II6B0033. **origin:** China. **cultivar:** HU SHI
DENG PAO QIE. Cultivar. Seed.

PI 555602 **donor id:** II6B0235. **origin:** China. **cultivar:** DU SHAN
CHANG QIE. Cultivar. Seed.

PI 555603 **donor id:** II6B0424. **origin:** China. **cultivar:** DA QING
QIE. Cultivar. Seed.

PI 555604 **donor id:** II6B0571. **origin:** China. **cultivar:** TONG XUAN
(1) HAO. Cultivar. Seed.

PI 555605. *Canavalia ensiformis* (L.) DC. FABACEAE Jackbean

Donated by: Anthony, M.R., R.R.2, Box 271, Muncie, Indiana, United
States. Received September 04, 1991.

origin: United States. **cultivar:** TENNESSEE RIVER BEAN.
Cultivar. Seed.

PI 555606. *Luffa* sp. CUCURBITACEAE

Donated by: DeCourley, C., Univ. of Missouri - Columbia, Univ. Extension, Dept. of Hort., 1-40 Agriculture Bldg., Columbia, Missouri, United States. Received September 04, 1991.

origin: UNKNOWN. **remarks:** Imported. Fiber quality excellent. Fruit did not set or mature quickly. Seed.

PI 555607 to 555609. *Vigna mungo* (L.) Hepper FABACEAE Black gram

Donated by: Iizuka, M., Chiba University, Faculty of Horticulture, Matsudo-shi, Chiba-Ken, Japan. **remarks:** Received through the IBPGR Sponsored Multicrops Collection Mission to Nepal, 1984 - 1985. Received September 04, 1991.

PI 555607 **donor id:** N-2063a. **origin:** Nepal. **collector id:** N-2063a. **locality:** Nurke village. **elevation:** 1700m. Wild. Seed.

PI 555608 **donor id:** N-2160a. **origin:** Nepal. **local name:** Gahal. **collected:** November 19, 1984. **collector id:** N-2160a. **locality:** Khewachha village. **elevation:** 1100m. Wild. Seed.

PI 555609 **donor id:** N-2176b. **origin:** Nepal. **local name:** Gahal. **collected:** November 20, 1984. **collector id:** N-2176b. **locality:** Lamsua Bitalab village. **elevation:** 850m. Wild. Seed.

PI 555610. *Vigna umbellata* (Thunb.) Ohwi & H. Ohashi FABACEAE
Ricebean

Donated by: Iizuka, M., Chiba University, Faculty of Horticulture, Matsudo-shi, Chiba-Ken, Japan. **remarks:** Received through the IBPGR Sponsored Multicrops Collection Mission to Nepal, 1984 - 1985. Received September 04, 1991.

donor id: U-8055a. **origin:** Nepal. **local name:** Kalo bhatta. **collected:** November 29, 1984. **collector id:** U-8055a. **locality:** Kothiya village. **elevation:** 160m. Wild. Seed.

PI 555611. *Capsicum annuum* L. SOLANACEAE Bell pepper

Donated by: Bosland, P.W., New Mexico State University, College of Agric. & Home Economics, Dept. of Agron. & Hort., Box 30003, Las Cruces, New Mexico, United States. Received September 04, 1991.

PI 555611-continued

donor id: NM89C122. **origin:** United States. **other id:** SA279. **source:** P.G. Smith Collection. Cultivated. Seed.

PI 555612. *Capsicum chacoense* Hunz. SOLANACEAE

Donated by: Bosland, P.W., New Mexico State University, College of Agric. & Home Economics, Dept. of Agron. & Hort., Box 30003, Las Cruces, New Mexico, United States. Received September 04, 1991.

donor id: NM89C123. **origin:** United States. **other id:** SA185. **source:** P.G. Smith Collection. Cultivated. Seed.

PI 555613 to 555649. *Capsicum* sp. SOLANACEAE

Donated by: Bosland, P.W., New Mexico State University, College of Agric. & Home Economics, Dept. of Agron. & Hort., Box 30003, Las Cruces, New Mexico, United States. Received September 04, 1991.

PI 555613 **donor id:** NM89C130. **origin:** Mexico. **other id:** BG1684. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555614 **donor id:** NM89C144. **origin:** Mexico. **other id:** BG1535. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555615 **donor id:** NM89C145. **origin:** Mexico. **other id:** BG1645. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555616 **donor id:** NM89C146. **origin:** Mexico. **other id:** BG2815. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555617 **donor id:** NM89C147. **origin:** Mexico. **other id:** BG3195. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555618 **donor id:** NM89C148. **origin:** Mexico. **other id:** BG3209. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555619 **donor id:** NM89C151. **origin:** Mexico. **other id:** BG3231. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555620 **donor id:** NM89C152. **origin:** Mexico. **other id:** BG3235. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555621 **donor id:** NM89C154. **origin:** Mexico. **other id:** BG3575. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555622 **donor id:** NM89C155. **origin:** Mexico. **other id:** BG3576. **source:** Mexico Germplasm Bank. Cultivated. Seed.

PI 555613 to 555649-continued

- PI 555623 **donor id:** NM89C159. **origin:** Mexico. **other id:** BG3429.
source: Mexico Germplasm Bank. Cultivated. Seed.
- PI 555624 **donor id:** NM89C163. **origin:** Mexico. **other id:** BG30.
source: Mexico Germplasm Bank. Cultivated. Seed.
- PI 555625 **donor id:** NM89C164. **origin:** Mexico. **other id:** BG31.
source: Mexico Germplasm Bank. Cultivated. Seed.
- PI 555626 **donor id:** NM89C281. **origin:** Mexico. **other id:** BG3715.
source: Mexico Germplasm Bank. Cultivated. Seed.
- PI 555627 **donor id:** NM89C170. **origin:** Guatemala. **local name:**
Cobanero. **other id:** 524. **source:** Guatemalan Collection.
Cultivated. Seed.
- PI 555628 **donor id:** NM89C171. **origin:** Guatemala. **local name:**
Cuerudo. **other id:** 525. **source:** Guatemalan Collection.
Cultivated. Seed.
- PI 555629 **donor id:** NM89C172. **origin:** Guatemala. **local name:**
Chocolate. **other id:** 542. **source:** Guatemalan
Collection. Cultivated. Seed.
- PI 555630 **donor id:** NM89C173. **origin:** Guatemala. **local name:**
Amarillo Dulce. **other id:** 566. **source:** Guatemalan
Collection. Cultivated. Seed.
- PI 555631 **donor id:** NM89C174. **origin:** Guatemala. **local name:**
Dulce. **other id:** 567. **source:** Guatemalan Collection.
Cultivated. Seed.
- PI 555632 **donor id:** NM89C175. **origin:** Guatemala. **local name:**
Habanero Rojo. **other id:** 570. **source:** Guatemalan
Collection. Cultivated. Seed.
- PI 555633 **donor id:** NM89C176. **origin:** Guatemala. **local name:**
Chile Corto. **other id:** 576. **source:** Guatemalan
Collection. Cultivated. Seed.
- PI 555634 **donor id:** NM89C177. **origin:** Guatemala. **local name:**
Diente de Perro. **other id:** 583. **source:** Guatemalan
Collection. Cultivated. Seed.
- PI 555635 **donor id:** NM89C178. **origin:** Guatemala. **local name:**
Chiltepe. **other id:** 584. **source:** Guatemalan Collection.
Cultivated. Seed.
- PI 555636 **donor id:** NM89C179. **origin:** Guatemala. **local name:**
Diente de Perro. **other id:** 628. **source:** Guatemalan
Collection. Cultivated. Seed.

PI 555613 to 555649-continued

- PI 555637 **donor id:** NM89C180. **origin:** Guatemala. **local name:** Tal.
other id: 678. **source:** Guatemalan Collection.
Cultivated. Seed.
- PI 555638 **donor id:** NM89C181. **origin:** Guatemala. **local name:** Cola
de Alacran. **other id:** 733. **source:** Guatemalan
Collection. Cultivated. Seed.
- PI 555639 **donor id:** NM89C182. **origin:** Guatemala. **local name:** Sto.
Domingo. **other id:** 844. **source:** Guatemalan Collection.
Cultivated. Seed.
- PI 555640 **donor id:** NM89C184. **origin:** Guatemala. **local name:**
Sambo. **other id:** 927. **source:** Guatemalan Collection.
Cultivated. Seed.
- PI 555641 **donor id:** NM89C185. **origin:** Guatemala. **local name:**
Cahobanero. **other id:** 929. **source:** Guatemalan
Collection. Cultivated. Seed.
- PI 555642 **donor id:** NM89C186. **origin:** Guatemala. **local name:**
Cahobanero. **other id:** 936. **source:** Guatemalan
Collection. Cultivated. Seed.
- PI 555643 **donor id:** NM89C187. **origin:** Guatemala. **local name:**
Chile Chiquito. **other id:** 953. **source:** Guatemalan
Collection. Cultivated. Seed.
- PI 555644 **donor id:** NM89C277. **origin:** Guatemala. **other id:** 1070.
source: Guatemalan Collection. Cultivated. Seed.
- PI 555645 **donor id:** NM89C279. **origin:** Guatemala. **other id:** 1161.
source: Guatemalan Collection. Cultivated. Seed.
- PI 555646 **donor id:** NM89C220. **origin:** USSR. **other id:** VR Taltos.
source: USSR Collection. Cultivated. Seed.
- PI 555647 **donor id:** NM89C221. **origin:** USSR. **other id:** Podarok
Moldavi. **source:** USSR Collection. Cultivated. Seed.
- PI 555648 **donor id:** NM89C222. **origin:** USSR. **other id:** VR
Feherozon. **source:** USSR Collection. Cultivated. Seed.
- * PI 555649 **Capsicum annuum** L. SOLANACEAE
donor id: NMCA929. **origin:** Sudan. **cultivar:** African
Pequin. **remarks:** Piquin Type. Cultivated. Seed.

PI 555650. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. **Received** October
01, 1991.

PI 555650-continued

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** LIBC 4. **other id:** PVP 9100255. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555651. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Dekalb Plant Genetics, United States. Received October 01, 1991.

origin: United States. **origin institute:** Dekalb Plant Genetics. **cultivar:** 83IBI3. **other id:** PVP 9100256. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555652. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Seed Research of Oregon, Inc., Oregon, United States. Received October 01, 1991.

origin: United States. **origin institute:** Seed Research of Oregon, Inc., Oregon. **cultivar:** SR 8200. **other id:** PVP 9100258. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555653. *Lactuca sativa* L. ASTERACEAE Lettuce (cos)

Donated by: Royal Sluis, Netherlands. Received October 01, 1991.

origin: Netherlands. **origin institute:** Royal Sluis. **cultivar:** BAUTISTA. **other id:** PVP 9100259. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555654. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Olsen - Fennell Seeds, Inc., United States. Received October 01, 1991.

origin: United States. **origin institute:** Olsen - Fennell Seeds, Inc.. **cultivar:** BOARDWALK. **other id:** PVP 9100260. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 555655. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Olsen - Fennell Seeds, Inc., United States. Received October 01, 1991.

PI 555655-continued

origin: United States. **origin institute:** Olsen - Fennell
Seeds, Inc.. **cultivar:** ELEGANCE. **other id:** PVP 9100261.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 555656. *Allium cepa* L. LILIACEAE Onion

Donated by: Petoseed Company, Inc., United States. Received October
01, 1991.

origin: United States. **origin institute:** Petoseed
Company, Inc.. **cultivar:** PSX 822. **other id:** PVP
9100262. **source:** Pending. **group:** PVPO. Cultivar.
Seed.

PI 555657. *Buchloe dactyloides* (Nutt.) Engelm. POACEAE Buffalograss

Donated by: Oklahoma Agr. Exp. Sta., Oklahoma, United States.
Received October 01, 1991.

origin: United States. **origin institute:** Oklahoma Agr.
Exp. Sta., Oklahoma. **cultivar:** BISON. **other id:** PVP
9100263. **source:** Pending. **group:** PVPO. Cultivar.
Seed.

PI 555658. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by: Cascade International Seed Company, Jonathan Green &
Sons, Inc., United States. Received October 01, 1991.

origin: United States. **origin institute:** Cascade
International Seed Company, Jonathan Green & Sons, Inc..
cultivar: WASHINGTON. **other id:** PVP 9100264. **source:**
Pending. **group:** PVPO. Cultivar. Seed.

PI 555659. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received October 01, 1991.

origin: United States. **origin institute:** Holden's
Foundation Seeds, Inc.. **cultivar:** LH164. **other id:** PVP
9100265. **source:** Pending. **group:** PVPO. Cultivar.
Seed.

PI 555660. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received October 01, 1991.

origin: United States. **origin institute:** Holden's
Foundation Seeds, Inc.. **cultivar:** LH214. **other id:** PVP
9100266. **source:** Pending. **group:** PVPO. Cultivar.
Seed.

PI 555661. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Delta and Pine Land Company, United States. **Received**
October 01, 1991.

origin: United States. **origin institute:** Delta and Pine
Land Company. **cultivar:** DP 5614. **other id:** PVP 9100267.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 555662. *Verbena x hybrida* Voss VERBENACEAE Verbena

Donated by: Zaadunie B.V., Netherlands. **Received** October 01, 1991.

origin: Netherlands. **origin institute:** Zaadunie B.V..
cultivar: ROMANCE DEEPROSE. **other id:** PVP 9100268.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 555663. *Verbena x hybrida* Voss VERBENACEAE Verbena

Donated by: Zaadunie B.V., Netherlands. **Received** October 01, 1991.

origin: Netherlands. **origin institute:** Zaadunie B.V..
cultivar: ROMANCE SCARLET WITH EYE. **other id:** PVP
9100269. **source:** Pending. **group:** PVPO. Cultivar.
Seed.

PI 555664. *Verbena x hybrida* Voss VERBENACEAE Verbena

Donated by: Zaadunie B.V., Netherlands. **Received** October 01, 1991.

origin: Netherlands. **origin institute:** Zaadunie B.V..
cultivar: ROMANCE SILVER. **other id:** PVP 9100270.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 555665. *Phaseolus vulgaris* L. FABACEAE

Donated by: Kelly, J.D., Michigan Agr. Exp. Sta., Michigan State University, East Lansing, Michigan, United States; and Agricultural Research Service -- USDA. **remarks:** Chinook Light Red Kidney Bean. Received September 05, 1991.

origin: United States. **origin institute:** Michigan Agr. Exp. Sta., Michigan State University, East Lansing, Michigan 48824. **cultivar:** CHINOOK. **pedigree:** CN49242/3* Montcalm // Redkloud. **other id:** CV-95. **group:** CSR-OTHER LEGUMES. **other id:** K86506. **remarks:** Exhibits type-1 upright determinate growth habit, averages 50 cm tall. Maturity in 96 days. Carries the combination of the dominant I-gene and the recessive bc-1(2) gene which protects against necrosis-inducing strains of BCMV. Immune to indigenous rust. Resistant to alpha, beta, gamma, delta, lambda, and epsilon races of anthracnose conditioned by the ARE resistance gene. Seed averages 55.8 g/100 seeds, pink in. Spring Annual. Cultivar. Seed.

PI 555666. *Avena sativa* L. POACEAE Common oat

Donated by: Sorrells, M.E., Cornell Agr. Exp. Sta., Cornell University, Ithaca, New York, United States. **remarks:** NY90BC4. Received September 30, 1991.

origin: United States. **origin institute:** Cornell Agr. Exp. Sta., Cornell University, Ithaca, New York 14853. **cultivar:** NY90BC4. **pedigree:** Composite of tan-white lemma backcross lines derived from recurrent parent of Ogle oat (CIav 9401). **other id:** GP-54. **group:** CSR-OAT. **remarks:** Mid-season spring oat similar in most characteristics to Ogle except for lemma color trait. Lemma color uniform but may vary from cream to tan depending on the production environment. Stature, heading date, and panicle uniform. Grain yield and test weight heterogeneous. Developed as feed oat germplasm that combines wide adaptation of Ogle with white lemma color. White lemma oat grain is preferred in the. Breeding Material. Seed.

PI 555667. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Sorensen, E.L., Agricultural Research Service -- USDA, Kansas State University, Manhattan, Kansas, United States; and Kansas Agr. Exp. Sta.. **remarks:** KS219 Alfalfa Germplasm. Received October 03, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Kansas State University, Manhattan, Kansas 66506. **cultivar:** KS219. **pedigree:** Graham M6P3AN3 / Riley M4P4AN2. **other id:** GP-256. **group:** CSR-ALFALFA. **remarks:** Resistance to anthracnose (*Colletotrichum trifolii*, race 1), bacterial wilt (*Clavibacter michiganense*), downy mildew (*Peronospora trifoliorum*), Fusarium wilt (*Fusarium oxysporum*), Phytophthora root rot (*Phytophthora megasperma*), blue alfalfa aphid (*Acyrtosiphon kondoi*) pea aphid (*Acyrtosiphon pisum*), and the spotted alfalfa aphid (*Therioaphis maculata*). Cultivar. Seed.

PI 555668. *Saccharum* hybrid POACEAE Sugarcane

Donated by: Martin, F.A., Louisiana Agr. Exp. Sta., LSU Agricultural Center, Baton Rouge, Louisiana, United States; and Agricultural Research Service -- USDA; and American Sugar Cane League. **remarks:** LCP 82-89 Sugarcane. Received October 03, 1991.

origin: United States. **origin institute:** Louisiana Agr. Exp. Sta., Louisiana State University, Agricultural Center, Baton Rouge, Louisiana 70803. **cultivar:** LCP 82-89. **pedigree:** CP 52-68 / CP 72-370. Complex interspecific hybrid of *Saccharum officinarum*, *S. spontaneum*, and *S. barberi*. **other id:** CV-90. **group:** CSR-SUGARCANE. **remarks:** Yields well on both silt loam and clay textured soils. Superior to CP 70-321 in yield of total recoverable sugar per hectare (Kg ha⁻¹) and yield of cane (Mg ha⁻¹). Similar to CP 70-321 in recoverable sugar (kg Mg⁻¹) and maturity. Produces high population of medium-sized stalks of average weight. Moderate fiber content (12.6%) and good juice extraction (79.5%). Erect in growth and well suited to. Cultivar. Plant.

PI 555669. *Ulmus parvifolia* Jacq. ULMACEAE

Donated by: Townsend, A.M., U.S. National Arboretum, USDA-ARS, 3501 New York Avenue, NE, Washington, District of Columbia, United States. Received September 25, 1991.

donor id: NA 55344. **origin:** United States. **cultivar:** OHIO. **pedigree:** Clonal selection at the USDA Nursery Crops Res. Lab., Delaware, Ohio, from seedling population of unknown origin. **remarks:** Tree moderately vase-shaped crown similar to more upright American elm. Leaves small (avg. 38mm long x 20mm wide), turn greyed red (178A) in autumn. Fruits red purple (59A). Bark lacebark quality, mixed colors & textures. Outer bark black (202C), grey (201C), & greyed green (195A), but flakes off with age, revealing grey orange (165B) color. Cold tolerant reliability to zone 5a. Highly resistant to. Tree. Cultivar. Plant.

PI 555670. *Lablab purpureus* (L.) Sweet FABACEAE

Donated by: Dietz, S.M., Regional Plant Introduction Station, USDA-ARS, Washington State University, 59 Johnson Hall, Pullman, Washington, United States. Received September 23, 1991.

origin: China. **locality:** Arbor, next to the old seed storage facility, Beijing. Wild. Seed.

PI 555671 to 555681. *Sorghum bicolor* (L.) Moench POACEAE Grain sorghum

Donated by: York, J.O., Arkansas Agr. Exp. Sta., Fayetteville, Arkansas, United States. Received September 20, 1991.

PI 555671 **origin:** United States. **cultivar:** R LINE AR 3019. **pedigree:** Selection from TAM Bulk 45, a sorghum anthracnose resistant population [*Collectotrichum graminicola*]. **other id:** Ark 1015. **remarks:** 3-dwarf R line that restores pollen to A(1) cytoplasm. Grain has a white and pearly pericarp, yellow endosperm, and mahogany glumes. Panicle exertion above the flag leaf (10cm), panicle type open. Plant averages 107cm in height. Flowers approximately 76 days after emergence. Seed circular in shape, flat. Stalks sturdy, juicy, and have few tillers. Relatively free of leaf diseases. Holds this resistance. Spring Annual. Breeding Material. Seed.

PI 555671 to 555681-continued

- PI 555672 **origin:** United States. **cultivar:** R LINE AR 3021.
pedigree: Selected from TAM Bulk 42 population. **other id:** Ark 1009. **remarks:** 3-dwarf R line that restores pollen to A(1) cytoplasm. Grain has a pink pericarp, starchy mesocarp, and black glumes. Plant relatively short (91cm). Flowers in 76 days after emergence. Panicle extension above the flag leaf (4cm), panicle type compact. Seed average in size, round. Grain does not thresh entirely from the glumes. Relatively free of leaf diseases at mid-anthesis but deteriorate. Spring Annual. Breeding Material. Seed.
- PI 555673 **origin:** United States. **cultivar:** R LINE AR 3022.
pedigree: Selected from TAM Bulk 45, a sorghum anthraenose resistant population [Colletotrichum graminicola]. **other id:** Ark 1020. **remarks:** 3-dwarf R line that restores pollen to A(1) cytoplasm. Seed small, flat and thresh free of the glumes. Grain has a white and pearly pericarp, yellow endosperm, and mahogany glumes. The panicle exertion above the flag leaf (10cm), panicle type open. Plant averages 96cm in height. Flowers in 75 days after emergence. The line has been clean of all leaf diseases. Spring Annual. Breeding Material. Seed.
- PI 555674 **origin:** United States. **cultivar:** R LINE AR 3023.
pedigree: Selected from the cross Double Dwarf Early 'Shallu' X TX 7078. **other id:** Ark 1022. **remarks:** 3-dwarf R line that restores pollen to A(1) cytoplasm. Grain has a white and pearly pericarp, corneous endosperm, and straw colored glumes. Panicle exertion above the flag leaf (10cm), panicle type open. Plant averages 102cm in height. Flowers approximately 68 days after emergence. The line resembles the Shallus particularly the seed. This line has been clean of all leaf diseases. The stalks are very. Spring Annual. Breeding Material. Seed.
- PI 555675 **origin:** United States. **cultivar:** R LINE AR 3024.
pedigree: Selected from the cross Double Dwarf Early 'Shallu' X TX 7078. **other id:** Ark 1043. **remarks:** 3-dwarf R line that restores pollen to A(1) cytoplasm. Grain has a brownish white pericarp, brown testa, and straw glumes. Seed small and thresh freely from the glumes. Panicle exertion above the flag leaf (10cm), panicle type open. Plant averages 107cm in height. Flowers approximately 76 days after emergence. The head type resembles the shallus. This brown sorghum line gives hybrids excellent. Spring Annual. Breeding Material. Seed.

- PI 555676 **origin:** United States. **cultivar:** R LINE AR 3025.
pedigree: Selected from IS 12664c (Temple Bulk). IS 12664c is a Zerazera. **other id:** Ark 604. **remarks:** 3-dwarf brown sorghum R line that restores pollen to A(1) cytoplasm. AR 3025 X 'Wheatland' gives a 2-dwarf hybrid. Grain has a brownish white pericarp, starchy mesocarp, and black glumes. Seed small, round and thresh freely from the glumes. Panicle exertion 2.5cm above the flag leaf, panicle type compact. Plant averages 109cm in height. Flowers in approximately 75 days after emergence. Redlan X AR 3025. Spring Annual. Breeding Material. Seed.
- PI 555677 **origin:** United States. **cultivar:** R LINE AR 3026.
pedigree: Brown sorghum selection from the inbred line NB 9040. **remarks:** 3-dwarf brown sorghum R line that restores pollen to A(1) cytoplasm. Grain has brownish white pericarp, thin mesocarp, brown testa, yellow endosperm, and mahogany glumes. Seed small and thresh freely from the glumes. Panicle exertion approximately 5cm above the flag leaf, panicle type open. Plant approximately 99cm. Flowers in approximately 76 days. Stalks sturdy and juicy. Plant stands well and resembles NB. Spring Annual. Breeding Material. Seed.
- PI 555678 **origin:** United States. **cultivar:** R LINE AR 3030.
pedigree: Selected for the dominant S factor SA 6649-7-2 (Double Dwarf 'Feterita'). **other id:** Feterita.
remarks: 3-dwarf brown sorghum R line that restores pollen to A(1) cytoplasm. Grain has brownish white pericarp, starchy mesocarp, brown testa, & straw colored glumes. Seed large, flat & thresh freely from the glumes. Panicle touches flag leaf at maturity, panicle type open. Plant height averages 89cm. Flowers in approximately 74 days after emergence. Stalk is large & sturdy. Dominant S factor or spreader. Spring Annual. Breeding Material. Seed.
- PI 555679 **origin:** United States. **cultivar:** B LINE AR 3033.
pedigree: Maintained by selfing and selection in Redlan since its release in 1948. **other id:** Redlan. **remarks:** 3-dwarf B line that is sterilized by A(1) cytoplasm. Line not been found different from CSSA Reg. No. 102 Redlan. Pure line taken from that cultivar. Grain has pink pericarp, starchy mesocarp, & black glumes. Seed medium size & thresh easily from glumes. Panicle exertion above the flag leaf (7cm), panicle type semi-open. Plant height avg. 127cm. Flowers in approx. 78 days after emergence. Stalks sturdy,. Spring Annual. Breeding Material. Seed.

PI 555671 to 555681-continued

PI 555680 **origin:** United States. **cultivar:** B LINE AR 3034.
pedigree: Maintained by selfing and selection in CK 60 since its release in 1950. **other id:** CK 60. **remarks:** 3-dwarf B line that is sterilized by A(1) cytoplasm. Line not been found different from CSSA Reg. No. 97 CK 60. Pure line taken from that cultivar. Grain has white pericarp, starchy mesocarp, & black glumes. Seed large, pointed. Panicle exertion above the flag leaf (13cm), panicle type compact. Plant avg. 122cm in height. Flowers approximately 74 days after emergence. Stalks sturdy & juicy. Similar to. Spring Annual. Breeding Material. Seed.

PI 555681 **origin:** United States. **cultivar:** R LINE AR 3040.
pedigree: Brown sorghum selection from the cross of IS 2403c X AR 3003. **other id:** Ark 1071. **remarks:** 3-dwarf brown sorghum R line that restores to A(1) cytoplasm. Grain has brownish pink pericarp, starchy mesocarp, brown testa, & black glumes. Seed medium in size, round. Panicle exertion above flag leaf (4cm), panicle type open. Plant averages 112cm in height. Flowers in approx. 77 days. Stalks sturdy with few tillers. Leaves free of disease through anthesis. Stalks & leaves deteriorate rapidly as. Spring Annual. Breeding Material. Seed.

PI 555682. *Nicotiana amplexicaulis* N. Burb. SOLANACEAE Tobacco

Received .

origin: UNKNOWN. **other id:** 65A. Annual. Wild. Seed.

PI 555683. *Nicotiana attenuata* Torrey ex S. Watson SOLANACEAE Tobacco

Received .

origin: UNKNOWN. **other id:** 7A. Annual. Wild. Seed.

PI 555684. *Nicotiana benthamiana* Domin SOLANACEAE Tobacco

Received .

origin: UNKNOWN. **other id:** 9A. Annual. Wild. Seed.

PI 555685. *Nicotiana excelsior* (J. M. Black) J. M. Black SOLANACEAE Tobacco

Received .

PI 555685-continued

origin: UNKNOWN. other id: 19A. Annual. Wild. Seed.

PI 555686. *Nicotiana glauca* Graham SOLANACEAE Tree tobacco

Received .

origin: UNKNOWN. other id: 23D. Annual. Wild. Seed.

PI 555687. *Nicotiana hesperis* N. Burb. SOLANACEAE Tobacco

Received .

origin: UNKNOWN. other id: 67A. Annual. Wild. Seed.

PI 555688. *Nicotiana megalosiphon* Van Heurck & Mull. Arg. SOLANACEAE Tobacco

Received .

origin: UNKNOWN. other id: 32A. Annual. Wild. Seed.

PI 555689 to 555690. *Nicotiana occidentalis* Wheeler SOLANACEAE Tobacco

Received .

PI 555689 origin: UNKNOWN. other id: 37A. Annual. Wild. Seed.

PI 555690 origin: UNKNOWN. other id: 37B. Annual. Wild. Seed.

PI 555691. *Nicotiana rotundifolia* Lindley SOLANACEAE Tobacco

Received .

origin: UNKNOWN. other id: 47A. Annual. Wild. Seed.

PI 555692 to 555693. *Nicotiana rustica* L. SOLANACEAE Tobacco

Received .

PI 555692 origin: UNKNOWN. other id: 49A. Annual. Wild. Seed.

PI 555693 origin: UNKNOWN. other id: 49B. Annual. Wild. Seed.

PI 555694. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Clausen, R.E., University of California - Berkeley, Berkeley, California, United States. Received .

origin: United States. **pedigree:** 4N(und x tab). **other id:** B5. Annual. Genetic Material. Seed.

PI 555695 to 555696. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Clayton, USDA-ARS, Beltsville, Maryland, United States. Received .

PI 555695 **origin:** United States. **pedigree:** 4N[tabx4N(syl x oto)]. **other id:** B11. Annual. Genetic Material. Seed.

PI 555696 **origin:** United States. **pedigree:** 4N(deb x tab). **other id:** B15. Annual. Genetic Material. Seed.

PI 555697. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Kostoff, USSR. Received .

origin: USSR. **pedigree:** 4N(syl x tmf) Kostoff's Hybrid. **other id:** B12. Annual. Genetic Material. Seed.

PI 555698 to 555699. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Cameron, University of California - Berkeley, Berkeley, California, United States. Received .

PI 555698 **origin:** United States. **pedigree:** 4N(lon x tab). **other id:** B20. Annual. Genetic Material. Seed.

PI 555699 **origin:** United States. **pedigree:** 4N(deb x cle). **other id:** B28. Annual. Genetic Material. Seed.

PI 555700 to 555707. Nicotiana hybrid SOLANACEAE Tobacco

Received .

PI 555700 **origin:** United States. **pedigree:** 4N(tab HLN.B21 X glouca). **other id:** B56. Annual. Genetic Material. Seed.

PI 555701 **origin:** United States. **pedigree:** 4N(rus x tab). **other id:** B57. Annual. Genetic Material. Seed.

PI 555702 **origin:** United States. **pedigree:** [plum]tab-white. **other id:** B61. Annual. Genetic Material. Seed.

PI 555700 to 555707-continued

- PI 555703 **origin:** United States. **pedigree:** [plum]tab-coral. **other id:** B62. Annual. Genetic Material. Seed.
- PI 555704 **origin:** United States. **pedigree:** 4N(cle x glu). **other id:** B63. **other id:** N. edwardsonii. **source:** Not a valid species name. Annual. Genetic Material. Seed.
- PI 555705 **origin:** United States. **pedigree:** [cord]tab. **other id:** B64. Annual. Genetic Material. Seed.
- PI 555706 **origin:** United States. **pedigree:** 4N(sol x tab). **other id:** B65. Annual. Genetic Material. Seed.
- PI 555707 **origin:** United States. **pedigree:** 4N(tab x sol). **other id:** B66. Annual. Genetic Material. Seed.

PI 555708 to 555710. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Cameron, University of California - Berkeley, Berkeley, California, United States. Received .

- PI 555708 **origin:** United States. **pedigree:** 4N(und x tab). **other id:** B22. Annual. Genetic Material. Seed.
- PI 555709 **origin:** United States. **pedigree:** 4N(glu x tab)#1. **other id:** B35. Annual. Genetic Material. Seed.
- PI 555710 **origin:** United States. **pedigree:** 4N(glu x tab)#2. **other id:** B36. Annual. Genetic Material. Seed.

PI 555711. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Cameron, University of California, Berkeley, California, United States. Received .

origin: United States. **pedigree:** 4N(big x sua). **other id:** B27. Annual. Genetic Material. Seed.

PI 555712. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Burk, Larry G., USDA-ARS, Beltsville, Maryland, United States. Received .

origin: United States. **pedigree:** 4N(big x tab). **other id:** B33. Annual. Genetic Material. Seed.

PI 555713 to 555716. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Smith, Harold H., United States. Received .

PI 555713 **origin:** United States. **pedigree:** 4N(big x deb). **other**
id: B41. Annual. Genetic Material. Seed.

PI 555714 **origin:** United States. **pedigree:** 4N(deb x tab). **other**
id: B42. Annual. Genetic Material. Seed.

PI 555715 **origin:** United States. **pedigree:** 4N(sua x lan). **other**
id: B49. Annual. Genetic Material. Seed.

PI 555716 **origin:** United States. **pedigree:** 4N(gla x lan). **other**
id: B50. Annual. Genetic Material. Seed.

PI 555717. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Sand, S.A., United States. Received .

origin: United States. **pedigree:** 4N(lon x san). **other**
id: B48. Annual. Genetic Material. Seed.

PI 555718. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Cameron, University of California - Berkeley, Berkeley,
California, United States. Received November 1967.

origin: United States. **pedigree:** 4N(sua x tab). **other**
id: B51. Annual. Genetic Material. Seed.

PI 555719. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Kehr, United States. Received 1964.

origin: United States. **pedigree:** 4N(deb x plu). **other**
id: B53. Annual. Genetic Material. Seed.

PI 555720. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Kehr, United States. Received October 1967.

origin: United States. **pedigree:** 4N(sua x plu). **other**
id: B54. Annual. Genetic Material. Seed.

PI 555721 to 555722. Nicotiana hybrid SOLANACEAE Tobacco

Donated by: Burk, Larry G., United States. Received August 1967.

PI 555721 to 555722-continued

PI 555721 **origin:** United States. **pedigree:** 4N(syl x oto). **other id:** B55. Annual. Genetic Material. Seed.

PI 555722 **origin:** United States. **pedigree:** 4N(syl x tmf). **other id:** B60. Annual. Genetic Material. Seed.

PI 555723. *Nicotiana* hybrid SOLANACEAE Tobacco

Donated by: Hitier, United States. Received .

origin: United States. **pedigree:** 4N(sua x meg). **other id:** B58. Annual. Genetic Material. Seed.

PI 555724. *Nicotiana* hybrid SOLANACEAE Tobacco

Donated by: Wean, United States. Received .

origin: United States. **pedigree:** 4N(gos x tab). **other id:** B59. Annual. Genetic Material. Seed.

PI 555725. *Nicotiana x sanderae* Will. Watson SOLANACEAE Tobacco

Received .

origin: United States. **other id:** 50E. Annual. Wild. Seed.

PI 555726 to 555746. *Avena sativa* L. POACEAE Common oat

Donated by: Marshall, H.G., 1422 E. College Avenue, Bellefonte, Pennsylvania, United States. **remarks:** Winter Oat Lines from ARS-USDA/Penn State Program, University Park, PA. Received October 02, 1991.

PI 555726 **donor id:** PA8115-40. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** PA822-7538*3/CI 8447. **remarks:** Extremely winter-hardy line selected with a crown freezing technique. Plant height and maturity similar to Pennwin and Norline. Seed color white. Breeding Material. Seed.

PI 555726 to 555746-continued

- PI 555727 **donor id:** PA8014-608. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** PA822-7538/CI 8447//CI 8310/CI 8447. **remarks:** Very winter-hardy. Straw short, stiff. Test weight good. Seed large, broad, yellow. Breeding Material. Seed.
- PI 555728 **donor id:** PA7915-299. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** PA822-7538/CI 8447//CI 8310/CI 8447. **remarks:** Good winter hardiness. Straw medium short. Seed large, broad, yellow. Maturity medium. Breeding Material. Seed.
- PI 555729 **donor id:** PA8014-1210. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** PA822-7538/CI 8447//CI 8310/CI 8447. **remarks:** Very winter-hardy. Straw stiff, medium short. Maturity midlate. Seed large, broad, yellow. Breeding Material. Seed.
- PI 555730 **donor id:** PA8014-599. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** PA822-7538/CI 8447//CI 8310/CI 8447. **remarks:** Good winter hardiness. Straw stiff, medium height. Maturity midlate. Seed white with dark veins on lemma. Breeding Material. Seed.
- PI 555731 **donor id:** PA8014-1356. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** CI 7126/3/Ballard/4/Wintok//Wintok Sel./Hairy Culberson/3/Craig/Alamo. **remarks:** Good winter hardiness. Straw mid-tall, stiff. Maturity moderately early. Seed yellow. Breeding Material. Seed.
- PI 555732 **donor id:** PA7915-1342. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** CI 8310/CI 8447/4/Nora/3/Dubois/Milford// Nysel/Hairy Culberson. **remarks:** Good winter hardiness. Straw medium short. Maturity medium. Seed excellent, white. Breeding Material. Seed.

- PI 555733 **donor id:** PA7617-3658. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** Unknown. From PA Composite 6 after natural selection for hardiness. **remarks:** Extremely winter-hardy. Midtall with good lodging resistance. Maturity slightly earlier than Pennwin (midlate). Seed slender, white. Breeding Material. Seed.
- PI 555734 **donor id:** PA7617-3534. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** Unknown. From PA Composite 6 after natural selection for hardiness. **remarks:** Very winter-hardy. Tall with good lodging resistance. Maturity medium. Seeds white with some dark veins on the lemma. Breeding Material. Seed.
- PI 555735 **donor id:** PA7617-3633. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** Unknown. From PA Composite 6 after natural selection for hardiness. **remarks:** Very winter-hardy. Tall with good lodging resistance. Maturity midlate. Seeds yellow with dark veins on the lemma. Breeding Material. Seed.
- PI 555736 **donor id:** PA7617-3460. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** Unknown. From PA Composite 6 after natural selection for hardiness. **remarks:** Very winter-hardy. Tall height with good lodging resistance. Maturity medium early. Seed good, white with some dark veins on the lemma. Breeding Material. Seed.
- PI 555737 **donor id:** PA8019-1. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** Unknown. Derived from PA Composite 11-1 after natural selection for winter hardiness and controlled selection pressure for short plant height. **remarks:** Very winter-hardy. Maturity medium early. Height short. Panicle semicompact. Breeding Material. Seed.

- PI 555738 **donor id:** PA8014-1168. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** PA822-7538*2/CI 8447//CI 8310/CI 8447. **remarks:** Very winter-hardy. Medium short. Maturity medium late. Seed white with some dark veins on the lemma. Breeding Material. Seed.
- PI 555739 **donor id:** PA7915-55. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** PA822-7538/CI 8447/4/Nora/3/Dubois/Milford//Nysel/Hairy Culberson. **remarks:** Very winter-hardy. Height short. Maturity medium early. Lodging resistance good. Seed yellow with some dark veins on the lemma. Breeding Material. Seed.
- PI 555740 **donor id:** PA7518-1729. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** CI 8310/CI 8447. **remarks:** Very winter-hard. Medium short. Straw stiff. Panicle semi-compact. Test weight good. Seed white with dark veins on the lemma. Breeding Material. Seed.
- PI 555741 **donor id:** PA8014-840. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** Pennwin*4/CI 8447//CI 8310/CI 8447. **remarks:** Very winter-hardy. Height medium. Maturity medium. Seed white with some dark veins on the lemma. Breeding Material. Seed.
- PI 555742 **donor id:** PA87G269. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** CI 7762/3*Noble/OT 207 (Dw-6 dwarf). **remarks:** Semidwarf (Dw-6 dwarfing gene) with panicle clear of boot. Moderate winter hardiness transferred via selection with a crown freezing technique. Breeding Material. Seed.
- PI 555743 **donor id:** PA87G391. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** CI 8310/2*Pennlo (semidwarf). **remarks:** Moderate winter hardiness transferred into Pennlo type via crown freezing technique. Straw short, stiff. Seed slender, white. Breeding Material. Seed.

PI 555726 to 555746-continued

PI 555744 **donor id:** PA87G324. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** CI 8310/2*Pennlo (semidwarf). **remarks:** Moderate winter hardiness transferred into Pennlo type via crown freezing technique. Straw very short, stiff. Seed slender, white. Breeding Material. Seed.

PI 555745 **donor id:** PA87G313. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** CI 7762/*2Pennlo (semidwarf). **remarks:** Moderate winter hardiness transferred into Pennlo type via crown freezing technique. Straw very short, very stiff. Peduncle large. Seed slender, white. Breeding Material. Seed.

PI 555746 **donor id:** PA87G315. **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Pennsylvania State University, University Park, Pennsylvania 16802. **pedigree:** CI 7762/*2Pennlo (semidwarf). **remarks:** Moderate winter hardiness transferred into Pennlo type via crown freezing technique. Straw very short, very stiff. Seed slender, white. Breeding Material. Seed.

PI 555747. *Hordeum vulgare* L. POACEAE Barley

Donated by: Ramage, R.T., USDA-ARS, University of Arizona, 2000 E. Allen Road, Tucson, Arizona, United States. Received October 02, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, University of Arizona, Tucson, Arizona 85719. **cultivar:** SOLUM. **pedigree:** Selection from male sterile facilitated recurrent selection population for reduced water use that was released as Composite Cross XXXIX. **other id:** 2-22-9. **remarks:** Spring barley with erect early growth, mid-tall to tall. Spikes lax, mid-long, erect. Awns rough. Glumes covered with long hairs, one-half to one-third the length of lemma. Glume awns shorter than length of glumes. Kernels covered, white, long, with long rachilla hairs and slightly wrinkled to semi-wrinkled hulls. Spring Annual. Cultivar. Seed.

PI 555748. *Ribes acicularis* Smith GROSSULARIACEAE

Donated by: Holloway, P.S., University of Alaska, Fairbanks, Alaska, United States. Received February 11, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. **collected:** August 10, 1990. Perennial. Cultivated. Seed.

PI 555749. *Ribes alpestre* Decaisne GROSSULARIACEAE Gooseberry

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received January 12, 1989.

origin: Pakistan. **pedigree:** Collected from the wild in Pakistan. **collected:** September 21, 1988. **locality:** 2km NW of Naltar, scattered along the Naltar Valley. **latitude:** 36 deg. 17 min. N. **longitude:** 74 deg. 05 min. E. **elevation:** 3200m. **remarks:** Red, edible fruit, just ripe to overripe, persistent. Good tart taste, mostly borne 1 fruit/node on 2yr wood. Perennial. Wild. Seed.

PI 555750. *Ribes alpinum* L. GROSSULARIACEAE Currant

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR. Received April 24, 1987.

origin: USSR. **pedigree:** Open-pollinated seed from botanical collection. **local name:** Alpine Currant. Perennial. Cultivated. Seed.

PI 555751. *Ribes alpinum* L. GROSSULARIACEAE Currant

Donated by: Carlton Nurseries, Dayton, Oregon, United States. Received January 10, 1990.

origin: United States. **pedigree:** Probably a seedling selection. **local name:** Alpine Currant. **remarks:** This accession is used as an ornamental. Perennial. Cultivated. Cutting.

PI 555752. *Ribes alpinum* L. GROSSULARIACEAE Currant

Donated by: Ley, Elizabeth, National Arboretum, Washington, District of Columbia, United States. Received September 17, 1990.

PI 555752-continued

origin: United States. **historical origin:** United States.
origin institute: Burroak Nursery, Rt. 1 Box 310, Round
Lake, Illinois 60073. **cultivar:** Green Mound.
Perennial. Cultivar. Plant.

PI 555753. *Ribes altissimum* Turcz. ex Pojark. GROSSULARIACEAE

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR.
Received April 24, 1987.

origin: USSR. **pedigree:** Open-pollinated seed from
botanical collection. **local name:** Chernaya Kislitsa.
Perennial. Cultivated. Seed.

PI 555754. *Ribes altissimum* Turcz. ex Pojark. GROSSULARIACEAE

Donated by: Holloway, P.S., University of Alaska, Fairbanks, Alaska,
United States. Received February 11, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical
collection. **collected:** August 10, 1990. Perennial.
Cultivated. Seed.

PI 555755. *Ribes americanum* Mill. GROSSULARIACEAE Currant

Donated by: Noller, M., Upper Colorado Environmental Plant, Center,
Meeker, Colorado, United States. Received June 01, 1982.

origin: United States. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria
Road, Corvallis, Oregon. **pedigree:** Seedling selection
from wild Colorado seedlot CRIB 805. **local name:**
American Black Currant. Perennial. Breeding Material.
Plant.

PI 555756 to 555757. *Ribes aureum* Pursh GROSSULARIACEAE Currant

Donated by: Seibert, T., Forked River, New Jersey, United States.
Received February 08, 1984.

PI 555756 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Bronze. Perennial. Cultivar. Plant.

PI 555757 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Giant Black. Perennial. Cultivar. Plant.

PI 555758. *Ribes aureum* Pursh GROSSULARIACEAE Currant

Donated by: Witt, J.A., Washington Park Arboretum, Seattle, Washington, United States. Received June 05, 1984.

origin: United States. **pedigree:** Collected from the wild in Idaho. **local name:** Golden Currant. **collected:** January 01, 1952. **locality:** Custer Country Pass Creek Gorge. **latitude:** 44 deg. N. **longitude:** 114 deg. W. **elevation:** 1890m. Perennial. Wild. Seed.

PI 555759. *Ribes aureum* Pursh GROSSULARIACEAE Currant

Donated by: Fredricks, N., Oregon State University, Corvallis, Oregon, United States. Received July 13, 1987.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Golden Currant. **collected:** July 1987. **locality:** 0.9m west of bridge crossing Trout Creek, Hwy 82, Wallowa Co. **latitude:** 45 deg. 26 min. N. **longitude:** 117 deg. 20 min. W. **elevation:** 1130m. Perennial. Wild. Seed.

PI 555760 to 555762. *Ribes aureum* Pursh GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received July 12, 1989.

PI 555760 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Golden Currant. **collected:** June 30, 1989. **locality:** Stream valley with dense vegetation, above Owyhee Lake. **latitude:** 43 deg. 37 min. N. **longitude:** 117 deg. 16 min. N. **remarks:** Coll. from one plant, 2m tall, very productive Fruit attractive glossy orange-yellow, globose, size varies. Perennial. Wild. Seed.

PI 555761 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Golden Currant. **collected:** June 30, 1989. **locality:** Along banks of Owyhee River 2.5km N of Owyhee Lake. **latitude:** 43 deg. 46 min. N. **longitude:** 117 deg. 09 min. W. **remarks:** Fruit w/ black skin and orange flesh, sweet w/ good flavor 7-9mm diameter. Shrub 2-3m tall, upright-spreading. Perennial. Wild. Seed.

PI 555760 to 555762-continued

PI 555762 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Golden Currant. **collected:** June 30, 1989. **locality:** Along banks of Owyhee River about 25km NE of Owyhee Lake. **latitude:** 43 deg. 46 min. N. **longitude:** 117 deg. 09 min. W. **remarks:** Coll. from one plant, 3m tall, very productive Red fruit, 6-8mm diameter, 9-12 berries/raceme. Perennial. Wild. Seed.

PI 555763. *Ribes aureum* Pursh GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received November 06, 1989.

origin: United States. **pedigree:** Collected from the wild Washington. **local name:** Golden Currant. **collected:** June 21, 1989. **locality:** SW edge of Spokane, along roadside near Hangman Creek. **latitude:** 47 deg. 36 min. N. **longitude:** 117 deg. 25 min. W. **remarks:** Population collection exhibiting at least 3 color forms Fruit cylindrical, 8-10mm diam, pendant racemes. Perennial. Wild. Seed.

PI 555764. *Ribes aureum* Pursh GROSSULARIACEAE Currant

Donated by: Carloni, K., Roseburg, Oregon, United States. Received August 06, 1990.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Golden Currant. **collected:** 1990. **locality:** Douglas County. **latitude:** 43 deg. 10 min. N. **longitude:** 123 deg. 20 min. W. Perennial. Wild. Plant.

PI 555765. *Ribes aureum* Pursh GROSSULARIACEAE Currant

Donated by: Hummer, K.E., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received May 25, 1991.

origin: United States. **pedigree:** Selection from native Californian plant material. Perennial. Cultivated. Plant.

PI 555766. *Ribes binominatum* A. A. Heller GROSSULARIACEAE Gooseberry

Donated by: Stansell, V., Gold Beach, Oregon, United States. Received August 31, 1989.

PI 555766-continued

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Ground Currant, Siskyou Currant. **collected:** August 20, 1989. **locality:** Near Bolan Creek, below Bolan Lake, dry meadow edges. **latitude:** 42 deg. 00 min. N. **longitude:** 142 deg. 00 min. W. **remarks:** Associates are Abies, Pseudotsuga, other Ribes spp, etc. Perennial. Wild. Seed.

PI 555767. Ribes bracteosum GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received August 15, 1983.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Stink Currant, Blue Currant. **collected:** August 12, 1983. **locality:** McKenzie Pass, in spring area, clearing of conifer forest. **latitude:** 48 deg. 00 min. N. **longitude:** 119 deg. 30 min. W. **elevation:** 1075m. **remarks:** Fruit small to medium with small yellow sessile glands. Perennial. Wild. Seed.

PI 555768. Ribes bracteosum GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 27, 1984.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Stink Currant, Blue Currant. **collected:** September 26, 1984. **locality:** Willamette Nat'l. Forest above Cougar Reservoir. **latitude:** 44 deg. 00 min. N. **longitude:** 122 deg. 18 min. W. **elevation:** 1280m. **remarks:** Shrub to 1m upright to spreading, with large leaves Fruit clusters to 22 cm long. Perennial. Wild. Seed.

PI 555769 to 555774. Ribes bracteosum GROSSULARIACEAE Currant

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received August 21, 1985.

PI 555769 **origin:** United States. **pedigree:** Collected from the wild in Washington. **local name:** Stink Currant, Blue Currant. **collected:** August 05, 1985. **locality:** From roadside up from Wind R. Forest Nursery in old burn. **latitude:** 46 deg. 00 min. N. **longitude:** 122 deg. 00 min. W. **elevation:** 1160m. **remarks:** Fruit ripe to partly ripe, typical. Perennial. Wild. Seed.

PI 555769 to 555774-continued

- PI 555770 **origin:** United States. **pedigree:** Collected from the wild in Washington. **local name:** Stink Currant, Blue Currant. **collected:** August 05, 1985. **locality:** Gifford Pinchot Nat'l Forest along roadside. **latitude:** 46 deg. 10 min. N. **longitude:** 122 deg. 30 min. W. **elevation:** 1250m. **remarks:** Small fruit population sample, typical. Perennial. Wild. Seed.
- PI 555771 **origin:** United States. **pedigree:** Collected from the wild in Washington. **local name:** Stink Currant, Blue Currant. **collected:** August 07, 1985. **locality:** Gifford Pinchot Nat'l Forest, along roadside. **latitude:** 46 deg. 10 min. N. **longitude:** 122 deg. 00 min. W. **elevation:** 1160m. **remarks:** Population covers 1 acre, < 1 % ripe fruit on 8/7/85. Perennial. Wild. Seed.
- PI 555772 **origin:** United States. **pedigree:** Collected from the wild in Washington. **local name:** Stink Currant, Blue Currant. **collected:** August 08, 1985. **locality:** Olympic Nat'l Forest, along roadside, Wynoochee River Bridge. **latitude:** 47 deg. 20 min. N. **longitude:** 123 deg. 40 min. W. **elevation:** 700m. **remarks:** Population collection from large population. Perennial. Wild. Seed.
- PI 555773 **origin:** United States. **pedigree:** Collected from the wild in Washington. **local name:** Stink Currant, Blue Currant. **collected:** August 13, 1985. **locality:** Olympic Nat'l Forest, in moist cove, northwest aspect. **latitude:** 48 deg. 00 min. N. **longitude:** 123 deg. 30 min. W. **elevation:** 820m. **remarks:** population sample. Perennial. Wild. Seed.
- PI 555774 **origin:** United States. **pedigree:** Collected from the wild in Washington. **local name:** Stink Currant, Blue Currant. **collected:** August 13, 1985. **locality:** Olympic Nat'l Forest, in stream bottom area. **latitude:** 48 deg. 00 min. N. **longitude:** 123 deg. 30 min. W. **elevation:** 730m. **remarks:** Population sample including fruit from several elite- appearing clones. Perennial. Wild. Seed.

PI 555775 to 555776. *Ribes bracteosum* GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 18, 1985.

PI 555775 to 555776-continued

PI 555775 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Stink Currant, Blue Currant. **collected:** September 25, 1985. **locality:** On trail to Burnt Lake, at creek crossing, Willamette N.F. **latitude:** 45 deg. 00 min. N. **longitude:** 124 deg. 00 min. W. **elevation:** 1000m. **remarks:** No fruit, plant typical morphology. Perennial. Wild. Seed.

PI 555776 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Stink Currant, Blue Currant. **collected:** August 28, 1985. **locality:** Above Cougar Reservoir, in conifer forest along creek. **latitude:** 44 deg. 12 min. N. **longitude:** 123 deg. 00 min. W. **elevation:** 1500m. **remarks:** Light to moderate crop. Perennial. Wild. Seed.

PI 555777. *Ribes bracteosum* GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 30, 1985.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Stink Currant, Blue Currant. **collected:** September 25, 1985. **locality:** We area in old clearcut above Opal Lake, Willamette N.F. **latitude:** 44 deg. 48 min. N. **longitude:** 122 deg. 10 min. W. **elevation:** 1130m. **remarks:** Few, very ripe fruit remaining. Perennial. Wild. Seed.

PI 555778. *Ribes burejense* F. Schmidt GROSSULARIACEAE Gooseberry

Donated by: Pirzio-Biroli, J., Washington Park Arboretum, Seattle, Washington, United States. Received March 31, 1987.

origin: UNCERTAIN. Perennial. Cultivated. Cutting.

PI 555779. *Ribes burejense* F. Schmidt GROSSULARIACEAE Gooseberry

Donated by: Hort. Bot. Acad. Sci., Tashkent, Uzbek SSR, USSR. Received April 24, 1987.

origin: USSR. **pedigree:** Open-pollinated seed from botanical collection. Perennial. Cultivated. Seed.

PI 555780. *Ribes californicum* var. *hesperium* (McClatchie) Jepson
GROSSULARIACEAE Gooseberry

Donated by: Pirzio-Biroli, J., Washington Park Arboretum, Seattle,
Washington, United States. Received June 16, 1989.

origin: United States. **pedigree:** Seedling selection from
seed collected in California. **local name:** Hill
Gooseberry. Perennial. Cultivated. Plant.

PI 555781. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon, United States. Received July 27, 1982.

origin: United States. **pedigree:** Collected from the wild
in Oregon. **local name:** Wax Currant, White-flowered
Currant. **collected:** July 09, 1983. **locality:** Ochoco
Nat'l Forest, dense coniferous forest habitat. **latitude:**
44 deg. 20 min. N. **longitude:** 120 deg. 30 min. W.
elevation: 950m. Perennial. Wild. Seed.

PI 555782 to 555783. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon, United States. Received July 20, 1983.

PI 555782 **origin:** United States. **pedigree:** Collected from the wild
in Idaho. **local name:** Wax Currant, White-flowered
Currant. **collected:** July 06, 1983. **locality:** Craters of
the Moon Nat'l Monument, rocky desert. **latitude:** 43 deg.
25 min. N. **longitude:** 113 deg. 35 min. W. **remarks:** Most
fruit not ripe at collection date. Perennial. Wild.
Seed.

PI 555783 **origin:** United States. **pedigree:** Collected from the wild
in Oregon. **local name:** Wax Currant, White-flowered
Currant. **collected:** July 06, 1983. **locality:** John Day
Fossil Beds Nat'l Monument. **latitude:** 44 deg. 30 min. N.
longitude: 120 deg. W. Perennial. Wild. Seed.

PI 555784 to 555786. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Ballington, J.R., North Carolina State Univ.,
Horticulture Department, Raleigh, North Carolina, United States.
Received August 10, 1985.

PI 555784 to 555786-continued

PI 555784 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Wax Currant, White-flowered Currant. **collected:** July 27, 1985. **locality:** South aspect, 10 degree slope, Winema National Forest. **latitude:** 43 deg. 00 min. N. **longitude:** 121 deg. 30 min. W. **elevation:** 1590m. **remarks:** Sticky surfact on fruit, amber to red color. Perennial. Wild. Seed.

PI 555785 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Wax Currant, White-flowered Currant. **collected:** July 27, 1985. **locality:** Winema National Forest, Oregon. **latitude:** 43 deg. 00 min. N. **longitude:** 121 deg. 30 min. W. **elevation:** 1590m. **remarks:** Fruit from one early ripening clone. Perennial. Wild. Seed.

PI 555786 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Wax Currant, White-flowered Currant. **collected:** July 28, 1985. **locality:** Benham Falls along DesChutes River, DesChutes Nat'l Forest. **latitude:** 43 deg. 45 min. N. **longitude:** 121 deg. 30 min. W. **elevation:** 1280m. **remarks:** Fruit population sample at 10/clone. Perennial. Wild. Seed.

PI 555787 to 555788. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 15, 1986.

PI 555787 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Wax Currant, White-flowered Currant. **collected:** August 04, 1986. **locality:** Tennant, very dry site, Ponderosa Pine, little understory. **latitude:** 41 deg. 30 min. N. **longitude:** 122 deg. 00 min. W. **elevation:** 1300m. **remarks:** Shrub to 2 m, grey-green leaves, few scattered bushes. Perennial. Wild. Plant.

PI 555788 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Wax Currant, White-flowered Currant. **collected:** August 04, 1986. **locality:** Steven's Pass, along main road, open young coniferous forest. **latitude:** 41 deg. 25 min. N. **longitude:** 121 deg. 55 min. W. **elevation:** 1560m. **remarks:** Shrub to 1.5 m, plants common, few fruit. Perennial. Wild. Seed.

PI 555789 to 555791. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Fredricks, N., Oregon State University, Corvallis, Oregon, United States. Received July 13, 1987.

PI 555789 to 555791-continued

PI 555789 **origin:** United States. **pedigree:** Collected from thw wild in Oregon. **local name:** Wax Currant, White-flowered Currant. **collected:** July 1987. **locality:** Wallowa Wayside, 2.7m east of Wallowa River at Minam on 82. **latitude:** 45 deg. 32 min. N. **longitude:** 117 deg. 45 min. W. **Perennial.** Wild. Seed.

PI 555790 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Wax Currant, White-flowered Currant. **collected:** July 1987. **locality:** Wallowa Wayside, 2,7m east of Wallowa River at Minam on 82. **latitude:** 45 deg. 32 min. N. **longitude:** 117 deg. 45 min. W. **Perennial.** Wild. Seed.

PI 555791 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Wax Currant, White-flowered Currant. **collected:** July 1987. **locality:** 0.9m west of bridge crossing Trout Creek, Hwy 82, Wallowa Co. **latitude:** 45 deg. 26 min. N. **longitude:** 117 deg. 20 min. W. **elevation:** 1130m. **Perennial.** Wild. Seed.

PI 555792 to 555793. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received August 26, 1987.

PI 555792 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** Wax Currant, White-flowered Currant. **collected:** August 1987. **locality:** Pitkin Co., 7 miles from Weller Lake. **latitude:** 39 deg. 07 min. N. **longitude:** 106 deg. 43 min. W. **elevation:** 2896m. **remarks:** Healthy looking shrub with dark orange-red fruits, very ripe. **Perennial.** Wild. Seed.

PI 555793 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** Wax Currant, White-flowered Currant. **collected:** August 1987. **locality:** Pitkin Co. about 20m from Weller Lake. **latitude:** 39 deg. 07 min. N. **longitude:** 106 deg. 43 min. W. **elevation:** 2900m. **remarks:** Fruit orange to orange-red, inedible, glabrous. Leaves very sticky and glandular. **Perennial.** Wild. Seed.

PI 555794. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Widrlechner, M., USDA/ARS/NC-7, Iowa State University, Ames, Iowa, United States. Received July 11, 1988.

PI 555794-continued

origin: United States. **pedigree:** Collected from the wild in Oklahoma. **local name:** Squaw Currant. **collected:** June 25, 1988. **locality:** Edge of cottonwood-willow floodplain, Tesesquite Creek. **latitude:** 36 deg. 52 min. N. **longitude:** 102 deg. 56 min. W. **elevation:** 1500m. **remarks:** Fruit orange-red, tasteless. Perennial. Wild. Seed.

PI 555795. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received July 12, 1989.

origin: Canada. **pedigree:** Collected wild in British Columbia. **local name:** Wax Currant, White-Flowered Currant. **collected:** June 30, 1989. **locality:** On slopes on West side of Okanagon Lake, 300 m up. **latitude:** 49 deg. 36 min. N. **longitude:** 119 deg. 41 min. W. **elevation:** 585m. **remarks:** Red-orange, globose, 7-9mm, bland, not juicy, dioecious Shrubs about 1m tall and 2m broad. Perennial. Wild. Seed.

PI 555796 to 555797. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Luby, J.J., University of Minnesota, St. Paul, Minnesota, United States. Received August 10, 1989.

PI 555796 **origin:** United States. **pedigree:** Collected from the wild in Wyoming. **collected:** 1989. **locality:** Calcite Springs overlook of Yellowstone River. **latitude:** 45 deg. 00 min. N. **longitude:** 110 deg. 30 min. W. **elevation:** 2010m. **remarks:** Red Currant. Perennial. Wild. Seed.

PI 555797 **origin:** United States. **pedigree:** Collected from the wild in South Dakota. **collected:** 1989. **locality:** Black Hills Nat'l Forest, Whitetail Gulch, grazed meadow. **latitude:** 43 deg. 45 min. N. **longitude:** 103 deg. 30 min. W. **elevation:** 1530m. **remarks:** Red currant. Perennial. Wild. Seed.

PI 555798. *Ribes cereum* Dougl. GROSSULARIACEAE Currant

Donated by: Berry Botanic Garden, Portland, Oregon, United States. Received January 04, 1990.

PI 555798-continued

origin: United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Oregon seedlot CRIB 848. **local name:** Wax Currant, White-flowered Currant. Perennial. Breeding Material. Plant.

PI 555799. *Ribes cereum* var. *colubrinum* C. Hitchc. GROSSULARIACEAE Currant

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received May 1991.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** May 15, 1991. **locality:** Hurricane Creek Campground, 7 mi S. of Enterprise. **latitude:** 45 deg. 25 min. N. **longitude:** 117 deg. 20 min. W. Perennial. Wild. Plant.

PI 555800. *Ribes cereum* var. *inebrians* (Lindley) C. Hitchc. GROSSULARIACEAE Currant

Donated by: Westwood, M.N., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received August 01, 1984.

origin: United States. **pedigree:** Collected from the wild in Utah. **collected:** July 26, 1984. **locality:** Soldier Creek Reservoir. **latitude:** 40 deg. 12 min. N. **longitude:** 111 deg. 24 min. W. **elevation:** 2285m. **remarks:** Plants to 40 cm, no thorns, no fruit. Perennial. Wild. Plant.

PI 555801 to 555802. *Ribes coloradense* Cov. GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received August 26, 1987.

PI 555801 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Colorado seedlot CRIB 832. **local name:** Colorado Currant. Perennial. Breeding Material. Plant.

PI 555802 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Colorado seedlot CRIB 833. **local name:** Colorado Currant. Perennial. Breeding Material. Plant.

PI 555803. *Ribes cruentum* Greene GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 10, 1984.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Shiny-leaved Gooseberry. **collected:** August 23, 1984. **locality:** Winema Nat'l Forest, Jackson Co. Fish Lake by Hwy. 140. **latitude:** 42 deg. 00 min. N. **longitude:** 122 deg. 00 min. W. **elevation:** 1650m. **remarks:** Thorny shrub to 0.3m, creeping or sprawling, fruit round, green and spiny, corolla adhering. Perennial. Wild. Seed.

PI 555804. *Ribes cruentum* Greene GROSSULARIACEAE Gooseberry

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received August 07, 1985.

origin: United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Oregon seedlot CRIB 818. **local name:** Shiny-Leaved Gooseberry. Perennial. Breeding Material. Plant.

PI 555805 to 555806. *Ribes cruentum* Greene GROSSULARIACEAE Gooseberry

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received August 10, 1985.

PI 555805 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Shiny-leaved Gooseberry. **collected:** July 23, 1985. **locality:** Illahe Campground, Siskyou National Forest. **latitude:** 42 deg. 30 min. N. **longitude:** 124 deg. 00 min. W. **elevation:** 130m. **remarks:** Fruit sample. Plant has thorns only at nodes, fruit has short, stiff thorns, mild flavor, olive green with stripes. Perennial. Wild. Seed.

PI 555806 **origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Oregon seedlot CRIB 820. **local name:** Shiny-leaved Gooseberry. Perennial. Breeding Material. Plant.

PI 555807. *Ribes cruentum* Greene GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 18, 1985.

PI 555807-continued

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Shiny-leaved Gooseberry. **collected:** August 28, 1985. **locality:** Three Sisters Wilderness Area, Willamette Nat'l Forest. **latitude:** 44 deg. 30 min. N. **longitude:** 125 deg. 00 min. W. **elevation:** 1650m. **remarks:** Sprawling shrub to 0.5m, moderate crop. Perennial. Wild. Seed.

PI 555808. *Ribes cruentum* Greene GROSSULARIACEAE Gooseberry

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received May 1991.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** April 30, 1991. Perennial. Wild. Plant.

PI 555809. *Ribes cucullatum* Hook. & Arn. GROSSULARIACEAE

Donated by: Cameron, S., Washington State University, W. Wash. Research Station, Vancouver, Washington, United States. Received January 29, 1990.

origin: Chile. **pedigree:** Collected from the wild in Chile. **collected:** January 14, 1990. **other id:** COY-05. **locality:** Zarzaparilla, Coyhalque. **latitude:** 43 deg. S. **longitude:** 74 deg. W. Perennial. Wild. Cutting.

PI 555810. *Ribes curvatum* Small GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received October 14, 1983.

origin: United States. **pedigree:** Collected from the wild in Texas. **locality:** Jim Hogg State Park. **latitude:** 95 deg. 06 min. N. **longitude:** 31 deg. 20 min. W. **elevation:** 200m. Perennial. Wild. Plant.

PI 555811. *Ribes curvatum* Small GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received December 06, 1983.

origin: United States. **pedigree:** Collected from the wild in Texas. **collected:** October 13, 1983. **locality:** Jim Hogg State Park. **latitude:** 95 deg. 06 min. N. **longitude:** 31 deg. 48 min. W. **elevation:** 550m. Perennial. Wild. Plant.

PI 555812. *Ribes curvatum* Small GROSSULARIACEAE Gooseberry

Donated by: Jaynes, R., Connecticut Experiment Station, New Haven, Connecticut, United States. Received February 01, 1984.

origin: United States. **historical origin:** United States.
origin institute: University of Connecticut, Agricultural Research Station, New Haven, Connecticut. **local name:** Georgia Gooseberry, Granite Gooseberry. Perennial. Breeding Material. Plant.

PI 555813. *Ribes cynosbati* L. GROSSULARIACEAE Gooseberry

Donated by: Widrlechner, M., USDA/ARS/NC-7, Iowa State University, Ames, Iowa, United States. Received July 28, 1987.

origin: United States. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild seedlot CRIB 830. **local name:** Dogberry, Pasture Gooseberry, Prickly Gooseberry. Perennial. Breeding Material. Plant.

PI 555814. *Ribes diacantha* Pall. GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received July 26, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. **remarks:** Arching and spreading shrub to 2.0m. Scattered fruit, red to maroon, excellent flavor. Perennial. Cultivated. Seed.

PI 555815. *Ribes divaricatum* Dougl. GROSSULARIACEAE

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received May 1991.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** April 1991. Perennial. Wild. Plant.

PI 555816. *Ribes echinellum* GROSSULARIACEAE Gooseberry

Donated by: Barrett, H., USDA/ARS Hort. Research Lab, Orlando, Florida, United States. Received December 03, 1985.

PI 555816-continued

origin: United States. **cultivar:** B 74B. **pedigree:** Collected from the wild in Florida. **local name:** Florida Gooseberry. **collected:** 1974. **locality:** Along Lake Miccosukee shore. **latitude:** 30 deg. 30 min. N. **longitude:** 83 deg. 30 min. W. **remarks:** Federal Endangered List 1989, Fla. and SC Endangered Lists. Perennial. Wild. Cutting.

PI 555817. *Ribes echinellum* GROSSULARIACEAE Gooseberry

Donated by: Barrett, H., USDA/ARS Hort. Research Lab, Orlando, Florida, United States. Received December 03, 1984.

origin: United States. **pedigree:** Collected from the wild in Florida. **local name:** Florida Gooseberry. **collected:** 1974. **locality:** Along Lake Miccosukee shore. **latitude:** 30 deg. 30 min. N. **longitude:** 83 deg. 30 min. W. **remarks:** Federal Endangered List 1989, Fla. and SC Endangered lists. Perennial. Wild. Cutting.

PI 555818. *Ribes echinellum* GROSSULARIACEAE Gooseberry

Donated by: Sherman, W., University of Florida, Fruit Crops Department, Gainesville, Florida, United States. Received July 29, 1918.

origin: United States. **pedigree:** Collected from the wild in Florida. **local name:** Florida Gooseberry. **collected:** 1985. **locality:** Near Lake Miccosukee. **latitude:** 30 deg. 30 min. N. **longitude:** 83 deg. 55 min. W. **remarks:** Federal Endangered List 1989, Fla. and SC Endangered Lists. Perennial. Wild. Seed.

PI 555819. *Ribes fasciculatum* Sieb. & Zucc. GROSSULARIACEAE Currant

Donated by: Hort. Bot. Acad. Sci., Tashkent, Uzbek SSR, USSR. Received April 24, 1987.

origin: USSR. **pedigree:** Open-pollinated seed from botanical collection. **local name:** Yabu-sanzashi. Perennial. Cultivated. Seed.

PI 555820. *Ribes fasciculatum* var. *chinense* Maxim. ex Jancz. GROSSULARIACEAE Currant

Donated by: Westwood, M.N., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 12, 1982.

PI 555820-continued

origin: Korea, Republic of. **historical origin:** United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from seedlot CRIB 804. **collected:** July 05, 1981. Perennial. Breeding Material. Plant.

PI 555821. *Ribes fasciculatum* var. *chinense* Maxim. ex Jancz.
GROSSULARIACEAE Currant

Donated by: Miller, C. Ferris, Chollipo Arboretum, Seoul, Korea, Republic of. Received July 12, 1982.

origin: Korea, Republic of. **historical origin:** United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from seedlot CRIB 806. **local name:** Yabu-Sanzashi. **collected:** June 03, 1982. Perennial. Breeding Material. Plant.

PI 555822. *Ribes fasciculatum* var. *chinense* Maxim. ex Jancz.
GROSSULARIACEAE Currant

Donated by: Miller, C. Ferris, Chollipo Arboretum, Seoul, Korea, Republic of. Received June 11, 1985.

origin: Korea, Republic of. **pedigree:** Open pollinated from botanical collection. **local name:** Yabu-Sanzashi. Perennial. Cultivated. Seed.

PI 555823. *Ribes fasciculatum* var. *chinense* Maxim. ex Jancz.
GROSSULARIACEAE Currant

Donated by: Dudley, T.R., National Arboretum, Washington, District of Columbia, United States. Received January 02, 1986.

origin: Korea, Republic of. **pedigree:** Collected from the wild in Korea. **local name:** Yabu-Sanzashi. **collected:** 1985. **latitude:** 36 deg. N. **longitude:** 128 deg. E. Perennial. Wild. Seed.

PI 555824. *Ribes fasciculatum* var. *chinense* Maxim. ex Jancz.
GROSSULARIACEAE Currant

Donated by: Miller, C. Ferris, Chollipo Arboretum, Seoul, Korea, Republic of. Received May 01, 1986.

PI 555824-continued

origin: Korea, Republic of. **pedigree:** Collected from the wild in South Korea. **local name:** Yabu-Sanzashi.
locality: Cholla Putko Province, Mt. Naejang. Perennial.
Wild. Seed.

PI 555825. *Ribes formosanum* GROSSULARIACEAE Gooseberry

Donated by: Tsai, Taiwan National University, Taipei, Taiwan.
Received July 12, 1982.

origin: Taiwan. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Taiwanese seedlot CRIB 816. Perennial.
Breeding Material. Plant.

PI 555826. *Ribes glandulosum* Grauer GROSSULARIACEAE Currant

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States.
Received September 15, 1986.

origin: United States. **pedigree:** Collected from the wild in North Carolina. **local name:** Skunk Currant, Fetid Currant. **collected:** August 06, 1986. **locality:** Haywood Co., Waterrock Knob, up trail to the peak. **latitude:** 35 deg. 25 min. N. **longitude:** 83 deg. 20 min. W. **elevation:** 2000m. **remarks:** Stems somewhat prostrate, red fruit, sparsely glandular and pubescent. Perennial.
Wild. Seed.

PI 555827 to 555830. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Lawrence, F.J., USDA/ARS, Oregon State University, Horticulture Department, Corvallis, Oregon, United States. **Received** 1981.

PI 555827 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Speedwell. **remarks:** Fruits large, round, red and sweet, plants resistant to mildew. Perennial. Cultivar. Plant.

PI 555828 **origin:** United Kingdom. **historical origin:** United Kingdom. **cultivar:** Whitesmith. **other id:** Engelse Witte. **other id:** Weisse Triumphbeere. **other id:** Chautauqua. **remarks:** Plants medium in size, fruit is early, light silvery-green. Perennial. Cultivar. Plant.

PI 555827 to 555830-continued

PI 555829 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Mary Tennis. Perennial. Cultivar. Plant.

PI 555830 **origin:** UNCERTAIN. **cultivar:** O.T. 126. Perennial.
Breeding Material. Plant.

PI 555831. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Lawrence, F.J., USDA/ARS, Oregon State University,
Horticulture Department, Corvallis, Oregon, United States. Received
April 1983.

origin: United States. **historical origin:** UNCERTAIN.
cultivar: Green Hansa. **other id:** Gruene Hansa.
locality: Europe. Perennial. Cultivar. Plant.

PI 555832 to 555833. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Lawrence, F.J., USDA/ARS, Oregon State University,
Horticulture Department, Corvallis, Oregon, United States. Received
January 26, 1983.

PI 555832 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: D. Young. Perennial. Cultivar. Plant.

PI 555833 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Surprise. Perennial. Cultivar. Plant.

PI 555834 to 555835. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Reich, L., Cornell University, NY Ag. Experiment
Station, Highland, New York, United States. Received November 17,
1982.

PI 555834 **origin:** United States. **origin institute:** Cornell
University, Agricultural Experiment Station, Geneva, New
York 14556. **cultivar:** Fredonia. **pedigree:**
Open-pollinated English-type gooseberry seedling
selection. **remarks:** Vigorous and productive, fruit is
very large, attractive, red and of good quality. Late
season. Perennial. Cultivar. Plant.

PI 555835 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Jumbo. Perennial. Cultivar. Plant.

PI 555836 to 555837. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Keep, E., East Malling Research Station, Maidstone, Kent, England, United Kingdom. Received December 20, 1982.

PI 555836 **origin:** United Kingdom. **origin institute:** East Malling Research Station, Maidstone, Kent, England. **cultivar:** Malling Invicta. **pedigree:** (Resistema x Whinham's Industry) x Keepsake. **other id:** Invicta. **remarks:** Virus resistant. Perennial. Cultivar. Plant.

PI 555837 **origin:** United Kingdom. **cultivar:** Careless. **other id:** Weisse Volltragende. **other id:** White Fullbearing. **remarks:** This cultivar apparently emerged from the Gooseberry Clubs of Europe in the period 1740-1850. Perennial. Cultivar. Plant.

PI 555838 to 555841. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Parfitt, B.D.K., Brogdale Exp. Sta., Faversham, Kent, England, United Kingdom. Received October 31, 1983.

PI 555838 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** Gem. **locality:** Europe. **remarks:** Yellow fruited cultivar. Perennial. Cultivar. Plant.

PI 555839 **origin:** United Kingdom. **cultivar:** Industry. **other id:** Whinham's Industry. **remarks:** Fruit deep claret red, very vigorous, not much mildew. Perennial. Cultivar. Plant.

PI 555840 **origin:** United Kingdom. **cultivar:** Lancashire Lad. **other id:** Hartshorn's Lancashire Lad. **remarks:** Moderately vigorous and slightly spreading. Fruit medium- large, deep red. Midseason. Perennial. Cultivar. Plant.

PI 555841 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** Langley Gage. Perennial. Cultivar. Plant.

PI 555842 to 555843. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Jaynes, R., Connecticut Experiment Station, New Haven, Connecticut, United States. Received February 01, 1984.

PI 555842 **origin:** United States. **historical origin:** United States. **origin institute:** Ellwanger and Barry, Rochester, New York. **cultivar:** Columbus. **collected:** January 25, 1984. **remarks:** Plants vigorous, fruit is large, roundish, oblong and greenish-yellow. Perennial. Cultivar. Plant.

PI 555842 to 555843-continued

PI 555843 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Glenton Green. **other id:** York Seedling. **remarks:** Green-fruited cultivar, good flavor, thin-skinned. Perennial. Cultivar. Plant.

PI 555844 to 555845. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Stephens, G., Connecticut Experiment Station, New Haven, Connecticut, United States. Received February 08, 1985.

PI 555844 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Howard's Lancer. **other id:** Lancer. **remarks:** This cultivar emerged from the Gooseberry Clubs of Europe time period ca 1750-1850. Perennial. Cultivar. Plant.

PI 555845 **origin:** United States. **historical origin:** Canada. **cultivar:** Ross. **pedigree:** Chance seedling. **other id:** Davidson. **remarks:** Large fruit resembling Pixwell, lower yielder, no longer in production. Perennial. Cultivar. Plant.

PI 555846 to 555847. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Brown, M., Grants Pass, Oregon, United States. Received February 06, 1984.

PI 555846 **origin:** United States. **historical origin:** Finland. **cultivar:** Hinomakki. **remarks:** Susceptible to leaf spot, good for home gardens. Perennial. Cultivar. Plant.

PI 555847 **origin:** United States. **historical origin:** Canada. **origin institute:** Agriculture Canada, Research Station, Ottawa, Ontario. **cultivar:** Canada O-273. **pedigree:** Spinefree x Clark. **remarks:** This clone may not agree with the description published by Agriculture Canada. Perennial. Cultivar. Plant.

PI 555848 to 555852. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Seibert, T., Forked River, New Jersey, United States. Received February 08, 1984.

PI 555848 **origin:** United States. **historical origin:** Germany. **cultivar:** Hoennings Frueheste. **pedigree:** Seedling selection. **other id:** Hoennings Earliest. **remarks:** This accession is infected with veinbanding virus. Perennial. Cultivar. Plant.

PI 555848 to 555852-continued

- PI 555849 **origin:** United States. **historical origin:** Germany.
cultivar: Weisse Neckartal. **remarks:** Fruit early, large,
roundish, whitish-green. Plant is vigorous and erect.
Perennial. Cultivar. Cutting.
- PI 555850 **origin:** United States. **historical origin:** Germany.
cultivar: Gruene Kugel. Perennial. Cultivar. Cutting.
- PI 555851 **origin:** United States. **historical origin:** Germany.
cultivar: Lauffener Gelbe. **remarks:** Yellow-fruited
cultivar, early to midseason. Plant is very erect and
only slightly thorny. Perennial. Cultivar. Cutting.
- PI 555852 **origin:** United States. **historical origin:** United
Kingdom. **cultivar:** Worchesterberry. **other id:**
Worcester. **remarks:** Fruit is greenish-yellow and large.
Susceptible to mildew. Perennial. Cultivar. Plant.

PI 555853. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Fisher, E., James Madison University, Harrisonburg,
Virginia, United States. Received December 10, 1984.

origin: United States. **historical origin:** United States.
cultivar: Colossal. **pedigree:** Open pollinated seedling
of European gooseberry. **remarks:** Berries are large and
green. Plant is hardy with lots of spines. Perennial.
Cultivar. Plant.

PI 555854 to 555855. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Wassenaar, L.M., Inst. Hort. Plant Breeding, Wagenigan,
Netherlands. Received January 02, 1986.

- PI 555854 **origin:** Netherlands. **origin institute:** Inst. for Hort.
Plant Breeding, Mansholtlaan 15, Wagenigen. **cultivar:**
Golda. **pedigree:** Whitesmith x May Duke. **other id:** IVT
72001. Perennial. Cultivar. Cutting.
- PI 555855 **origin:** Netherlands. **origin institute:** Inst. for Hort.
Plant Breeding, Mansholtlaan 15, Wagenigan. **cultivar:**
Rosko. **pedigree:** Gladde Gele x Whinham's Industry.
other id: IVT 72002. Perennial. Cultivar. Cutting.

PI 555856. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Parfitt, B.D.K., Brogdale Exp. Sta., Faversham, Kent,
England, United Kingdom. Received January 02, 1986.

PI 555856-continued

origin: United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Achilles. **other id:** Achilles Red. **locality:**
Europe. **remarks:** A midseason cultivar, fruit is large
and pure red. Perennial. Cultivar. Cutting.

PI 555857. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Schultz, W., Philomath, Oregon, United States. Received
February 12, 1986.

origin: United States. **historical origin:** United States.
cultivar: Schulz. **pedigree:** Chance seedling found in
Alaska. Perennial. Cultivar. Plant.

PI 555858. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Meyer, D., Meyer Orchards and Nursery, Salem, Oregon,
United States. Received February 20, 1986.

origin: United States. **historical origin:** Finland.
cultivar: Lepad Red. **other id:** Leppa Red. Perennial.
Cultivar. Cutting.

PI 555859. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Trajkovski, V., Swedish University of Agricultural,
Sciences, Kristianstad, Sweden. Received April 14, 1986.

origin: Sweden. **origin institute:** Swedish University of
Agricultural Sci., Division of Fruit Breeding, Balsgard,
Kristianstad S-291 94. **cultivar:** Blood Hound.
Perennial. Cultivar. Cutting.

PI 555860 to 555861. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: McKay, S., Booneville, California, United States.
Received February 05, 1988.

PI 555860 **origin:** United States. **historical origin:** United
Kingdom. **cultivar:** Leveller. **other id:** Greenhalgh.
other id: Gelbe Riesenbeere. **remarks:** Fruit is very
large, yellow and well-developed. Spreading habit,
susceptible to mildew. Perennial. Cultivar. Cutting.

PI 555861 **origin:** United States. **historical origin:** Finland.
cultivar: Hinomakki Gold. **other id:** Hinomakki Yellow.
Perennial. Cultivar. Cutting.

PI 555862 to 555864. Ribes grossularia GROSSULARIACEAE Gooseberry

Donated by: McKay, S., Booneville, California, United States.
Received February 02, 1988.

PI 555862 **origin:** United States. **historical origin:** Germany.
cultivar: Hoennings Frueheste. **pedigree:** Seedling
selection. **other id:** Hoennings Earliest. **remarks:** Fruits
are golden-yellow, large with good flavor. Perennial.
Cultivar. Cutting.

PI 555863 **origin:** United States. **historical origin:** United
Kingdom. **cultivar:** Catherine. **other id:** Catherina.
remarks: Golden yellow fruit, large, oval, thick-skinned.
Perennial. Cultivar. Cutting.

PI 555864 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Jubilee Careless. **remarks:** White-fruited
cultivar. Perennial. Cultivar. Cutting.

PI 555865. Ribes grossularia GROSSULARIACEAE Gooseberry

Donated by: Meader, E.M., Rochester, New Hampshire, United States.
Received February 12, 1988.

origin: United States. **historical origin:** United
Kingdom. **cultivar:** Lord Elco. Perennial. Cultivar.
Cutting.

PI 555866. Ribes grossularia GROSSULARIACEAE Gooseberry

Donated by: Postman, J., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon, United States. **Received** October 03, 1988.

origin: United States. **historical origin:** Germany.
cultivar: Hoennings Frueheste. **pedigree:** Seedling
selection. **other id:** Hoennings Earliest. **remarks:** Fruit
is golden yellow, large with good flavor. Perennial.
Cultivar. Plant.

PI 555867 to 555868. Ribes grossularia GROSSULARIACEAE Gooseberry

Donated by: Cacciotti, R., Cranston, Rhode Island, United States.
Received October 08, 1988.

PI 555867 **origin:** United States. **historical origin:** United
Kingdom. **cultivar:** Industry. **other id:** Whinham's
Industry. **remarks:** Berries are large, claret red, not
much mildew. Perennial. Cultivar. Plant.

PI 555867 to 555868-continued

PI 555868 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Crown Bob. **other id:** Lentse Blonde. **remarks:** Fruit is medium-sized, dark purplish-red, slightly bristly, ripens midseason. Perennial. Cultivar. Plant.

PI 555869. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Cacciotti, R., Cranston, Rhode Island, United States. Received March 24, 1988.

origin: United States. **historical origin:** United Kingdom. **cultivar:** Early Sulphur. **other id:** Ruige Gele. **other id:** Yellow Rough. **other id:** Fruheste Gelbe. **remarks:** Yellow fruited cultivar similar to Hoennings Fruheste Early cropper, susceptible to sulfur damage. Perennial. Cultivar. Cutting.

PI 555870 to 555871. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Reckin, J., Werbellin Experimental Gardens, Werbellin, Germany. Received March 29, 1989.

PI 555870 **origin:** Germany. **cultivar:** Weisse Volltragende. **other id:** Careless. **other id:** White Fullbearing. **remarks:** Heavy-yielding cultivar that emerged from the Gooseberry Clubs of Europe in the period 1740-1850. Perennial. Cultivar. Cutting.

PI 555871 **origin:** Germany. **cultivar:** Gelbe Triumphbeere. **remarks:** Yellow fruited cultivar. Perennial. Cultivar. Cutting.

PI 555872. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Reckin, J., Werbellin Experimental Gardens, Werbellin, Germany. Received March 13, 1990.

origin: UNCERTAIN. **cultivar:** Jolly Angler. **other id:** Green Giant. **other id:** Grune Riesenbeere. **other id:** Lofty. **remarks:** Green-fruited, very late blooming. Perennial. Cultivar. Cutting.

PI 555873 to 555998. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: National Fruit Trials, Brogdale Farm, Faversham, Kent, England, United Kingdom. Received November 08, 1989.

PI 555873 to 555998-continued

- PI 555873 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Ajax. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555874 **origin:** United Kingdom. **historical origin:** Canada.
cultivar: Alma. **pedigree:** Downing seedling selection.
remarks: Vigorous, unproductive, susceptible to mildew,
fruit with thick skin, green tinged with coppery red.
Perennial. Cultivar. Cutting.
- PI 555875 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Beauty. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555876 **origin:** United Kingdom. **cultivar:** Bedford Red. **remarks:**
Red-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555877 **origin:** United Kingdom. **cultivar:** Bedford Yellow.
remarks: Yellow-fruited cultivar. Perennial. Cultivar.
Cutting.
- PI 555878 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Beech Tree Nestling. **remarks:** Red-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555879 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Black Seedling. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555880 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Blucher. **remarks:** Fruits dark red with thin
skin. Perennial. Cultivar. Cutting.
- PI 555881 **origin:** United Kingdom. **cultivar:** Bobby Green. **remarks:**
Green-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555882 **origin:** United Kingdom. **cultivar:** British Oak. **remarks:**
Red-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555883 **origin:** United Kingdom. **cultivar:** Careless (Kent).
other id: Careless. **remarks:** White-fruited cultivar No
pedigree information provided. Perennial. Cultivar.
Cutting.
- PI 555884 **origin:** United Kingdom. **cultivar:** Careless (Veitch).
other id: Careless. **remarks:** White-fruited cultivar No
pedigree information provided. Perennial. Cultivar.
Cutting.

PI 555873 to 555998-continued

- PI 555885 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Brogdale Farm, Kent, England. **cultivar:** Careless VT. **pedigree:** Carless selection?. **remarks:** Yellow-fruited cultivar. Perennial. Breeding Material. Cutting.
- PI 555886 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Brogdale Farm, Kent, England. **cultivar:** Careless 292. **pedigree:** Selection of Careless?. **remarks:** White-fruited cultivar. Perennial. Breeding Material. Cutting.
- PI 555887 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Brogdale Farm, Kent, England. **cultivar:** Careless 490. **pedigree:** Selection of Careless?. **remarks:** White-fruited cultivar. Perennial. Breeding Material. Cutting.
- PI 555888 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Brogdale Farm, Kent, England. **cultivar:** Careless 3024 L. **pedigree:** Selection of Careless?. **remarks:** Red-fruited cultivar. Perennial. Breeding Material. Cutting.
- PI 555889 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Brogdale Farm, Kent, England. **cultivar:** Careless 3024 Y. **pedigree:** Selection of Careless?. **remarks:** Red-fruited cultivar. Perennial. Breeding Material. Cutting.
- PI 555890 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Brogdale Farm, Kent, England. **cultivar:** Careless 3041. **pedigree:** Selection of Careless?. **remarks:** Red-fruited cultivar. Perennial. Breeding Material. Cutting.
- PI 555891 **origin:** United Kingdom. **historical origin:** United States. **cultivar:** Champion. **remarks:** Fruits medium sized, greenish yellow, roundish oval. Perennial. Cultivar. Cutting.
- PI 555892 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** Coiner. **remarks:** Yellow-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555893 **origin:** United Kingdom. **historical origin:** United States. **cultivar:** Colossal. **pedigree:** Open pollinated seedling of European gooseberry. **remarks:** Berries are large and green. Plant is hardy with lots of spines. Perennial. Cultivar. Cutting.

PI 555873 to 555998-continued

- PI 555894 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Cook's Eagle. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555895 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Cousen's Seedling. **remarks:** Yellow-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555896 **origin:** United Kingdom. **cultivar:** Dan's Mistake.
remarks: Red-fruited cultivar, vigorous, slightly
susceptible to mildew. Perennial. Cultivar. Cutting.
- PI 555897 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Dr. Wooley. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555898 **origin:** United Kingdom. **cultivar:** Drill. **remarks:**
Green-fruited cultivar, very susceptible to mildew.
Perennial. Cultivar. Cutting.
- PI 555899 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Early Green Hairy. **locality:** Europe. **remarks:**
Fruit small, round, deep green and hairy, early.
Perennial. Cultivar. Cutting.
- PI 555900 **origin:** United Kingdom. **cultivar:** Emerald. **remarks:**
Green-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555901 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Faithful. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555902 **origin:** United Kingdom. **cultivar:** Fascination. **remarks:**
Fruit is pale green mottled with red. Perennial.
Cultivar. Cutting.
- PI 555903 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Flixtonia. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555904 **origin:** United Kingdom. **cultivar:** Forester. **remarks:**
Red-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555905 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Forever Amber. **remarks:** Yellow-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555906 **origin:** United Kingdom. **cultivar:** Freedom. **remarks:**
'White'-fruited cultivar, very similar to Chautauqua.
Perennial. Cultivar. Cutting.

PI 555873 to 555998-continued

- PI 555907 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Gautrey's Earliest. **remarks:** Red-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555908 **origin:** United Kingdom. **cultivar:** Gipsy Queen. **remarks:**
Yellow-green fruit. Perennial. Cultivar. Cutting.
- PI 555909 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Glencarse Muscat. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555910 **origin:** United Kingdom. **cultivar:** Glenton Green. **other**
id: York Seedling. **remarks:** Green-fruited cultivar, good
flavor, thin-skinned. Perennial. Cultivar. Cutting.
- PI 555911 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Globe Yellow. **remarks:** Yellow-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555912 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Golden Drop. **locality:** Europe. **remarks:** Fruit
light yellow changing to red. Perennial. Cultivar.
Cutting.
- PI 555913 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Golden Lion. **remarks:** Yellow-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555914 **origin:** United Kingdom. **cultivar:** Green Gem. **remarks:**
Green-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555915 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Green Hairy. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555916 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Green Ocean. **remarks:** White-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555917 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Green Overall. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555918 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Green Walnut. **other id:** Smooth Green. **other**
id: Belmont Green. **other id:** Nonpareil. **locality:**
Europe. **remarks:** One of the oldest gooseberries in
cultivation, green fruited. Perennial. Cultivar.
Cutting.

PI 555873 to 555998-continued

- PI 555919 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Gretna Green. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555920 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Guido. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555921 **origin:** United Kingdom. **cultivar:** Gunner. **remarks:**
Fruit sweet and richly flavored, olive-green and yellow
striped with a unique square shape. Perennial.
Cultivar. Cutting.
- PI 555922 **origin:** United Kingdom. **historical origin:** Ireland.
cultivar: Guy's Seedling. **remarks:** Yellow-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555923 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Heart of Oak. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555924 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Hebburn Prolific. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555925 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Hedgehog. **other id:** Improved Early Hedgehog.
locality: Europe. **remarks:** Green-fruited cultivar, fruit
is somewhat hairy. Perennial. Cultivar. Cutting.
- PI 555926 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Hellegrune Samtbeere. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555927 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Hero of the Nile. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555928 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Highlander. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555929 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: High Sherrif. **remarks:** Yellow-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555930 **origin:** United Kingdom. **cultivar:** Hue-and-Cry. **remarks:**
Green-fruited cultivar, medium grower and subject to
mildew. Fruits large and oblong. Perennial. Cultivar.
Cutting.

PI 555873 to 555998-continued

- PI 555931 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Improved Mistake. **remarks:** Red-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555932 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Ingall's Prolific Red. **remarks:** Red-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555933 **origin:** United Kingdom. **origin institute:** East Malling
Research Station, Maidstone, Kent, England. **cultivar:**
Malling Invicta (B995/2). **pedigree:** (Resistema x
Whinham's Industry) x Keepsake. **remarks:** Virus
resistant, green-fruited cultivar. Perennial. Cultivar.
Cutting.
- PI 555934 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Keen Seedling. **other id:** Keen's Seedling.
remarks: Red-fruited cultivar. Perennial. Cultivar.
Cutting.
- PI 555935 **origin:** United Kingdom. **cultivar:** Keepsake. **remarks:**
Green-fruited cultivar, early. Perennial. Cultivar.
Cutting.
- PI 555936 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: King of Trumps. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555937 **origin:** United Kingdom. **cultivar:** Lady Haughton.
remarks: Yellow-fruited cultivar. Perennial. Cultivar.
Cutting.
- PI 555938 **origin:** United Kingdom. **cultivar:** Lady Leicester.
remarks: White-fruited cultivar. Perennial. Cultivar.
Cutting.
- PI 555939 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Landstrom. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555940 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Langley Green. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555941 **origin:** United Kingdom. **origin institute:** Laxton
Brothers, Bedford, England. **cultivar:** Laxton's Amber.
remarks: Yellow-fruited cultivar. Perennial. Cultivar.
Cutting.

PI 555873 to 555998-continued

- PI 555942 **origin:** United Kingdom. **cultivar:** Leveller (Rogers).
other id: Greenhalgh. **other id:** Gelbe Riesenbeere.
remarks: Fruit is very large, yellow and well-developed.
 Spreading habit, susceptible to mildew. Perennial.
 Cultivar. Cutting.
- PI 555943 **origin:** United Kingdom. **cultivar:** Leveller (Sanders).
other id: Greenhalgh. **other id:** Gelbe Riesenbeere.
remarks: Fruit is very large, yellow and well-developed.
 Spreading habit, susceptible to mildew. Perennial.
 Cultivar. Cutting.
- PI 555944 **origin:** United Kingdom. **cultivar:** London. **remarks:**
 Red-fruited cultivar, fruits large to very large. Won
 over 360 awards at shows in the UK in 1867 alone.
 Perennial. Cultivar. Cutting.
- PI 555945 **origin:** United Kingdom. **cultivar:** London City. **remarks:**
 Green-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555946 **origin:** United Kingdom. **cultivar:** Lord Audley. **remarks:**
 Red-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555947 **origin:** United Kingdom. **cultivar:** Lord Elco (LA).
remarks: White-fruited cultivar. Perennial. Cultivar.
 Cutting.
- PI 555948 **origin:** United Kingdom. **historical origin:** United
 Kingdom. **cultivar:** Lord Elco (Scotland). **remarks:**
 White-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555949 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: May Duke. **remarks:** Red-fruited cultivar.
 Perennial. Cultivar. Cutting.
- PI 555950 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Mertensis. **remarks:** Green-fruited cultivar.
 Perennial. Cultivar. Cutting.
- PI 555951 **origin:** United Kingdom. **cultivar:** Mitre. **remarks:**
 Fruits large, oval, pale green. Perennial. Cultivar.
 Cutting.
- PI 555952 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Montgomery. **remarks:** White-fruited cultivar.
 Perennial. Cultivar. Cutting.
- PI 555953 **origin:** United Kingdom. **cultivar:** Nailor. **remarks:**
 White-fruited cultivar. Perennial. Cultivar. Cutting.

PI 555873 to 555998-continued

- PI 555954 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Napoleon le Grande. **locality:** Europe.
remarks: Red-fruited cultivar. Perennial. Cultivar.
Cutting.
- PI 555955 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Ostrich. **remarks:** White-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555956 **origin:** United Kingdom. **cultivar:** Pilot. **remarks:**
Green-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555957 **origin:** United Kingdom. **cultivar:** Pitmaston Green Gage.
remarks: Green-fruited cultivar. Perennial. Cultivar.
Cutting.
- PI 555958 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Plain Long Green. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555959 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Preston Seedling. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555960 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Primrose. **remarks:** White-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555961 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Prince Regent. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555962 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Profit. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555963 **origin:** United Kingdom. **cultivar:** Queen of Trumps.
remarks: Green-fruited cultivar. Perennial. Cultivar.
Cutting.
- PI 555964 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Railway. **remarks:** Yellow-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555965 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Red Orleans. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555966 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Resistenta. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.

PI 555873 to 555998-continued

- PI 555967 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Riese von Kothen. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555968 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Rifleman. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555969 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Robustenda. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555970 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Roseberry. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555971 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Rushwick Seedling. **remarks:** Green-fruited
cultivar. Perennial. Cultivar. Cutting.
- PI 555972 **origin:** United Kingdom. **historical origin:** United
Kingdom. **cultivar:** Scotch Red Rough. **remarks:**
Red-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555973 **origin:** United Kingdom. **historical origin:** United
Kingdom. **cultivar:** Scottish Cheiftan. **remarks:**
Yellow-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555974 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Sensation. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555975 **origin:** United Kingdom. **cultivar:** Shiner. **remarks:**
Green-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555976 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Skania. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555977 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Slap Bang. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555978 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Smaragdeere. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555979 **origin:** United Kingdom. **cultivar:** Stockwell. **remarks:**
Green-fruited cultivar. Perennial. Cultivar. Cutting.

PI 555873 to 555998-continued

- PI 555980 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Talfourd. **remarks:** Red-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555981 **origin:** United Kingdom. **cultivar:** Telegraph. **remarks:**
Green-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555982 **origin:** United Kingdom. **cultivar:** Thatcher. **remarks:**
Green-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555983 **origin:** United Kingdom. **cultivar:** Thumper. **remarks:**
Green-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555984 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Tom Joiner. **remarks:** Green-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555985 **origin:** United Kingdom. **cultivar:** Trumpeter. **remarks:**
Yellow-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555986 **origin:** United Kingdom. **cultivar:** Victoria. **remarks:**
Red-fruited cultivar, very resistant to mildew.
Perennial. Cultivar. Cutting.
- PI 555987 **origin:** United Kingdom. **cultivar:** Warrington. **other id:**
Red Warrington. **other id:** Ashton. **remarks:** Red-fruited
cultivar currently very popular in France as Ashton.
Perennial. Cultivar. Cutting.
- PI 555988 **origin:** United Kingdom. **historical origin:** Germany.
cultivar: Weisse Volltragende. **other id:** Careless.
other id: White Fullbearing. **remarks:** Heavy-yielding
cultivar that emerged from the Gooseberry Clubs of Europe
ca. 1740-1850. Perennial. Cultivar. Cutting.
- PI 555989 **origin:** United Kingdom. **cultivar:** Industry. **other id:**
Whinham's Industry. **remarks:** Red-fruited cultivar, not
much mildew. Perennial. Cultivar. Cutting.
- PI 555990 **origin:** United Kingdom. **cultivar:** White Eagle. **remarks:**
White-fruited cultivar. Perennial. Cultivar. Cutting.
- PI 555991 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: White Lion. **remarks:** White-fruited cultivar.
Perennial. Cultivar. Cutting.
- PI 555992 **origin:** United Kingdom. **origin institute:** Ministry of
Agriculture, Fisheries, National Fruit Trials, Brogdale
Farm, Faversham, Kent, England. **cultivar:** H12481.
remarks: Yellow-fruited cultivar. Perennial. Breeding
Material. Cutting.

PI 555873 to 555998-continued

- PI 555993 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Fisheries, National Fruit Trials, Brogdale Farm, Faversham, Kent, England. **cultivar:** 1749-55. **remarks:** Spine-free selection from IHR breeding program. Perennial. Breeding Material. Cutting.
- PI 555994 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Fisheries, National Fruit Trials, Brogdale Farm, Faversham, Kent, England. **cultivar:** 1815-39. **remarks:** Spine-free selection from IHR breeding program. Perennial. Breeding Material. Cutting.
- PI 555995 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Fisheries, National Fruit Trials, Brogdale Farm, Faversham, Kent, England. **cultivar:** 1815-123. **remarks:** Spine-free selection from IHR breeding program. Perennial. Breeding Material. Cutting.
- PI 555996 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Fisheries, National Fruit Trials, Brogdale Farm, Faversham, Kent, England. **cultivar:** 1815-125. **remarks:** Spine-free selection from IHR breeding program. Perennial. Breeding Material. Cutting.
- PI 555997 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Fisheries, National Fruit Trials, Brogdale Farm, Faversham, Kent, England. **cultivar:** 1815-133. **remarks:** Spine-free selection from IHR breeding program. Perennial. Breeding Material. Cutting.
- PI 555998 **origin:** United Kingdom. **cultivar:** Green Finch. **remarks:** Green-fruited cultivar. Perennial. Cultivar. Cutting.

PI 555999. *Ribes grossularia* GROSSULARIACEAE Gooseberry

Donated by: Mashburn, E.F., Northumberland, Pennsylvania, United States. Received March 14, 1991.

origin: Poland. **remarks:** Yellow fruited, berries approx. 1 in long x .75 in, sweet, oblong. Possibly a cultivar whose name has been lost. Perennial. Plant.

PI 556000 to 556001. *Ribes heterotrichum* C. Meyer GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received July 26, 1990.

PI 556000 to 556001-continued

PI 556000 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **collected:** July 14, 1990. **locality:** Valley of a tributary stream to the Issyk River, Tien Shan. **remarks:** Shrubs to 2m, growing in partial shade in moist low woods in valley floor. Black fruit. Perennial. Wild. Seed.

PI 556001 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **collected:** July 14, 1990. **locality:** Valley of a tributary stream to the Issyk River, Tien Shan. **remarks:** Shrubs to 2m, growing in partial shade in moist low woods in valley floor. Black fruits. Perennial. Wild. Seed.

PI 556002. *Ribes himalayense* Royle ex Decaisne GROSSULARIACEAE
Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received January 12, 1989.

origin: Pakistan. **pedigree:** Collected from the wild in Pakistan. **collected:** September 21, 1988. **locality:** Near bridge in Naltar 2 mi. from the Naltar River. **latitude:** 36 deg. 16 min. N. **longitude:** 74 deg. 05 min. E. **elevation:** 3000m. **remarks:** Fruit maturity estimated early-mid September. Small racemes with 1-2 fruits remaining. Perennial. Wild. Seed.

PI 556003. *Ribes hirsuta* L. ex Muenchhausen GROSSULARIACEAE
Gooseberry

Donated by: Cacciotti, R., Cranston, Rhode Island, United States. Received October 08, 1988.

origin: United States. **historical origin:** UNCERTAIN.
Perennial. Plant.

PI 556004. *Ribes hispidulum* (Jancz.) Pojark. GROSSULARIACEAE

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR. Received April 24, 1987.

origin: USSR. **pedigree:** Open-pollinated seed from botanical collection. **local name:** Kislitsa. Perennial. Cultivated. Seed.

PI 556005. *Ribes howellii* GROSSULARIACEAE Currant

Donated by: Ballington, J.R., North Carolina State Univ.,
Horticulture Department, Raleigh, North Carolina, United States.
Received August 21, 1985.

origin: United States. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria
Road, Corvallis, Oregon. **pedigree:** OP seedling selection
from wild Washington seedlot CRIB 819. **local name:**
Currant. Perennial. Breeding Material. Plant.

PI 556006 to 556007. *Ribes howellii* GROSSULARIACEAE Currant

Donated by: Luby, J.J., University of Minnesota, St. Paul,
Minnesota, United States. Received August 24, 1989.

PI 556006 **origin:** United States. **pedigree:** Collected from the wild
in Idaho. **collected:** August 1989. **locality:** Coeur
d'Alene Nat'l Forest, Revett Lake, along trailsides.
latitude: 47 deg. 30 min. N. **longitude:** 116 deg. 00 min.
W. **elevation:** 1585m. Perennial. Wild. Seed.

PI 556007 **origin:** United States. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria
Road, Corvallis, Oregon. **pedigree:** Seedling selection
from wild Idaho seedlot CRIB 845. Perennial. Breeding
Material. Plant.

PI 556008. *Ribes hudsonianum* Richards GROSSULARIACEAE Currant

Donated by: Devonian Botanical Garden, Edmonton, Alberta, Canada.
Received November 07, 1984.

origin: Canada. **pedigree:** Open pollinated from botanical
collection. **local name:** Wild Black Currant, Northern
Black Currant. Perennial. Cultivated. Seed.

PI 556009. *Ribes hudsonianum* Richards GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon, United States. Received September 16, 1986.

origin: United States. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria
Road, Corvallis, Oregon. **pedigree:** Seedling selection
from wild Alaskan seedlot. **local name:** Wild Black
Currant, Northern Black Currant. Perennial. Breeding
Material. Plant.

PI 556010 to 556011. *Ribes hudsonianum* Richards GROSSULARIACEAE
Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon, United States. Received September 15, 1986.

PI 556010 **origin:** United States. **pedigree:** Collected from the wild
in Alaska. **local name:** Wild Black Currant, Northern
Black Currant. **collected:** August 31, 1986. **locality:**
Matanuska Glacier State Rec. Area 50 miles E of Palmer.
latitude: 62 deg. 10 min. N. **longitude:** 145 deg. 30 min.
W. **elevation:** 480m. **remarks:** Fruit black, very ripe
Deciduous, thornless shrub. Perennial. Wild. Seed.

PI 556011 **origin:** United States. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria
Road, Corvallis, Oregon. **pedigree:** OP seedling selection
from wild Alaska seedlot CRIB 821. **local name:** Wild
Black Currant, Northern Black Currant. Perennial.
Breeding Material. Plant.

PI 556012 to 556014. *Ribes hudsonianum* var. *petiolare* (Douglas) Jancz.
GROSSULARIACEAE Currant

Donated by: Fredricks, N., Oregon State University, Corvallis,
Oregon, United States. Received July 13, 1987.

PI 556012 **origin:** United States. **origin institute:**
USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis,
Oregon. **pedigree:** Seedling selection from wild Oregon
seedlot CRIB 825. **local name:** Wild Black Currant,
Northern Black Currant. Perennial. Breeding Material.
Plant.

PI 556013 **origin:** United States. **pedigree:** Collected from the wild
in Oregon. **local name:** Wild Black Currant, Northern
Black Currant. **collected:** July 1987. **locality:** Slope
above SE Wallowa Lake, mixed coniferous woodland.
latitude: 45 deg. 17 min. N. **longitude:** 117 deg. 12 min.
W. **elevation:** 1370m. Perennial. Wild. Seed.

PI 556014 **origin:** United States. **pedigree:** Collected from the wild
in Oregon. **local name:** Wild Black Currant, Northern
Black Currant. **collected:** July 1987. **locality:** 12.2m S
of Lostine, between Lostine River and road. **latitude:** 45
deg. 20 min. N. **longitude:** 117 deg. 24 min. W.
elevation: 1525m. Perennial. Wild. Plant.

PI 556015. *Ribes hudsonianum* var. *petiolare* (Douglas) Jancz.
GROSSULARIACEAE Currant

Donated by: Messinger, W., Oregon State University, Dept.
Horticulture, Corvallis, Oregon, United States. Received May 1991.

origin: United States. **pedigree:** Collected from the wild
in Oregon. **local name:** Wild Black Currant, Northern
Black Currant. **collected:** May 16, 1991. **locality:** Near
a turnout on the Joseph-Wallowa Lake Road, 5.5mi S.
latitude: 45 deg. 20 min. N. **longitude:** 117 deg. 18 min.
W. Perennial. Wild. Plant.

PI 556016 to 556029. *Ribes* hybrid GROSSULARIACEAE Black Currant

Donated by: Lawrence, F.J., USDA/ARS, Oregon State University,
Horticulture Department, Corvallis, Oregon, United States. Received
1981.

PI 556016 **origin:** United States. **historical origin:** Canada.
cultivar: Topsy. **pedigree:** Dempsey's Black (currant) x
Houghton (gooseberry) seedling. **remarks:** Midseason,
fairly vigorous and productive. Berries medium to large,
fairly even ripening. Black currant foliage & fruit.
Perennial. Cultivar. Plant.

PI 556017 **origin:** United States. **historical origin:** United States.
origin institute: Private breeder, Brigham City, Utah.
cultivar: Poorman. **pedigree:** Houghton x Downing (R.
hirtellum x R. *grossularia*). **remarks:** Plants large,
easily propagated from cuttings, fruit pinkish red at
maturity. Perennial. Cultivar. Plant.

PI 556018 **origin:** United States. **historical origin:** Canada.
cultivar: Josselyn. **pedigree:** Houghton x Red Warrington.
other id: Red Jacket. **remarks:** Fruits reddish green,
becoming pale red, early. Perennial. Cultivar. Plant.

PI 556019 **origin:** United States. **origin institute:** USDA/ARS,
Oregon State University, Dept. Horticulture, Corvallis,
Oregon. **cultivar:** ORUS-1. Perennial. Breeding
Material. Plant.

PI 556020 **origin:** United States. **origin institute:** USDA/ARS,
Oregon State University, Dept. Horticulture, Corvallis,
Oregon. **cultivar:** ORUS-3. Perennial. Breeding
Material. Plant.

PI 556021 **origin:** United States. **origin institute:** USDA/ARS,
Oregon State University, Dept. Horticulture, Corvallis,
Oregon. **cultivar:** ORUS-4. Perennial. Breeding
Material. Plant.

PI 556016 to 556029-continued

- PI 556022 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** ORUS-5. Perennial. Breeding Material. Plant.
- PI 556023 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** ORUS-6. Perennial. Breeding Material. Plant.
- PI 556024 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** ORUS-11. Perennial. Breeding Material. Plant.
- PI 556025 **origin:** United States. **historical origin:** United States. **origin institute:** University of Minnesota, Fruit Breeding Farm, Escelsior, Minnesota. **cultivar:** Cascade. **pedigree:** Open pollinated seedling of cv. Diploma. **other id:** Minn 70. **remarks:** Fruit is larger than Red Lake, matures one week earlier. Perennial. Cultivar. Plant.
- PI 556026 **origin:** United States. **origin institute:** University of Minnesota, Minnesota. **cultivar:** Minn-52. Perennial. Breeding Material. Plant.
- PI 556027 **origin:** United States. **origin institute:** University of Minnesota, Minnesota. **cultivar:** Minn-69. Perennial. Breeding Material. Plant.
- PI 556028 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** ORUS-7. Perennial. Breeding Material. Plant.
- PI 556029 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** ORUS-8. Perennial. Breeding Material. Plant.

PI 556030. Ribes hybrid GROSSULARIACEAE Gooseberry

Donated by: Lawrence, F.J., USDA/ARS, Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received July 20, 1981.

origin: United States. **origin institute:** USDA/ARS, Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** ORUS-2. Perennial. Breeding Material. Plant.

PI 556031. Ribes hybrid GROSSULARIACEAE Gooseberry

Donated by: Lawrence, F.J., USDA/ARS, Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received April 1983.

origin: United States. **origin institute:** USDA/ARS, Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** ORUS-9. Perennial. Breeding Material. Plant.

PI 556032. Ribes hybrid GROSSULARIACEAE Gooseberry

Donated by: Lawrence, F.J., USDA/ARS, Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received January 26, 1983.

origin: United States. **origin institute:** USDA/ARS, Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** ORUS-10. Perennial. Breeding Material. Plant.

PI 556033. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Keep, E., East Malling Research Station, Maidstone, Kent, England, United Kingdom. Received December 20, 1982.

origin: United Kingdom. **origin institute:** E. Malling Research Station, Maidstone, Kent, England. **cultivar:** Malling Redstart. Perennial. Cultivar. Plant.

PI 556034 to 556035. Ribes hybrid GROSSULARIACEAE Pink Currant

Donated by: Parfitt, B.D.K., Brogdale Exp. Sta., Faversham, Kent, England, United Kingdom. Received October 31, 1983.

PI 556034 **origin:** United Kingdom. **historical origin:** France. **cultivar:** Champagne. **pedigree:** Probably common red x common white. **other id:** Champagne Red. **remarks:** This clone is infected with veinbanding virus. Perennial. Cultivar. Plant.

PI 556035 **origin:** United Kingdom. **cultivar:** Snowdrop. **remarks:** Large oval copperish-red fruit. Perennial. Cultivar. Plant.

PI 556036 to 556038. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Jaynes, R., Connecticut Experiment Station, New Haven, Connecticut, United States. Received February 01, 1984.

PI 556036 to 556038-continued

- PI 556036 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** London Market. **other id:** London Road. **other id:** London Red. **other id:** Scotch. **remarks:** Resistant to drought, borers, diseases. Perennial. Cultivar. Plant.
- PI 556037 **origin:** United States. **historical origin:** Norway. **cultivar:** Viking. **pedigree:** R. petraeum Wulf x R. rubrum (direction of cross unknown). **other id:** Hollandische Rote. **other id:** Norwegian Red Dutch. **remarks:** Red fruit, immune from white pine blister rust. Perennial. Cultivar. Plant.
- PI 556038 **origin:** United States. **historical origin:** Canada. **origin institute:** Agriculture Canada, Agricultural Research Station, Ottawa, Ontario. **cultivar:** Spinefree. **pedigree:** (F2 of R. oxyacanthoides x Victoria) x Mabel. **remarks:** Bush is thornless and upright. Female parent of Captivator. Perennial. Cultivar. Plant.

PI 556039. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Stephens, G., Connecticut Experiment Station, New Haven, Connecticut, United States. Received February 08, 1985.

origin: United States. **historical origin:** United States. **cultivar:** Wilder. **pedigree:** Seedling selection of cv. Versailles. **other id:** President Wilder. **remarks:** Versailles type, vigorous, large fruits. Perennial. Cultivar. Plant.

PI 556040. Ribes hybrid GROSSULARIACEAE Gooseberry

Donated by: Jaynes, R., Connecticut Experiment Station, New Haven, Connecticut, United States. Received December 29, 1986.

origin: United States. **historical origin:** United States. **cultivar:** Downing. **pedigree:** Seedling of Houghton (R. hirtellum x R. grossularia). **remarks:** Fruit of good quality Vigorous, healthy and productive. Perennial. Cultivar. Plant.

PI 556041. Ribes hybrid GROSSULARIACEAE Gooseberry

Donated by: Brown, M., Grants Pass, Oregon, United States. Received February 06, 1984.

origin: United States. **origin institute:** Private breeder, Marion County, Salem, Oregon. **cultivar:** Oregon. **pedigree:** Apparently a seedling selection of cv Downing. **other id:** Oregon Champion. **remarks:** Plants large, fruit small, pale whitish-green Strongly recommended for the Pacific Northwest. Perennial. Cultivar. Plant.

PI 556042 to 556049. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Seibert, T., Forked River, New Jersey, United States.
Received February 08, 1984.

PI 556042 **origin:** United States. **historical origin:** Netherlands. **cultivar:** Heros. **remarks:** Suscep. to leafspot. Very similar to Laxton's Perfection. Perennial. Cultivar. Plant.

PI 556043 **origin:** United States. **historical origin:** Netherlands. **cultivar:** Rondon. **pedigree:** Backcross of R. multiflorum to redcurrant cultivars. **remarks:** Mid-season flowering. Slightly pear-shaped, dark red fruit. Perennial. Cultivar. Plant.

PI 556044 **origin:** United States. **historical origin:** United States. **cultivar:** Perfection. **pedigree:** Fay x White Grape. **remarks:** Does well in New York and parts of the Northwest Fruits borne in large clusters, bright, clear red. Perennial. Cultivar. Plant.

PI 556045 **origin:** United States. **historical origin:** Germany. **cultivar:** Mulka. **pedigree:** [Houghton Castle x (Kerulose x Ribes multiflorum)]. **remarks:** Strong-growing, late flowering and ripening, dark red fruits. Perennial. Cultivar. Plant.

PI 556046 **origin:** United States. **historical origin:** Germany. **cultivar:** Heinemanns Rote Spatlese. **pedigree:** Backcross of R. multiflorum to redcurrant cultivar (?). **other id:** Macherauch's Spate Riesentraub. **other id:** Groseille Raisin. **other id:** Industria. **remarks:** Vigorous, fruit ripens in Aug. Resistant to anthracnose Heavy cropping, late flowering. Perennial. Cultivar. Plant.

PI 556047 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Stanza. **remarks:** Heavy cropping, late flowering, large dark firm acid fruit. Perennial. Cultivar. Plant.

PI 556042 to 556049-continued

PI 556048 **origin:** United States. **historical origin:** United States.
cultivar: White Imperial. **other id:** Imperatorskaja
Belaja. **remarks:** Fruit quality excellent, plants small,
with medium vigor, spreading. Resembles White Grape.
Perennial. Cultivar. Plant.

PI 556049 **origin:** United States. **historical origin:** Canada.
origin institute: Agriculture Canada, Agricultural
Research Station, Ottawa, Ontario. **cultivar:** Coronet.
pedigree: R. ussuriense x Kerry. **other id:** Ottawa 393.
remarks: Immune from rust. Perennial. Cultivar. Plant.

PI 556050. Ribes hybrid GROSSULARIACEAE Black Currant

Donated by: Seibert, T., Forked River, New Jersey, United States.
Received 1984.

origin: United States. **historical origin:** Canada.
origin institute: Agriculture Canada, Agricultural
Research Station, Ottawa, Ontario. **cultivar:** Crusader.
pedigree: R. ussuriense x Kerry. **other id:** Ottawa 381.
remarks: Immune to rust. Perennial. Cultivar. Plant.

PI 556051. Ribes hybrid GROSSULARIACEAE Gooseberry

Donated by: Chandler, J., USDA/ARS/NCGR-Corvallis, 33447 Peoria
Road, Corvallis, Oregon, United States. Received June 05, 1984.

origin: United States. **historical origin:** Canada.
origin institute: Canada Department of Agriculture,
Research Station, Ottawa, Ontario. **cultivar:** Captivator.
pedigree: Spinefree x Clark. **other id:** Ottawa 272.
remarks: Thornless with large fruit. Perennial.
Cultivar. Plant.

PI 556052. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Wassenaar, L.M., Inst. Hort. Plant Breeding, Wagenigan,
Netherlands. Received January 02, 1986.

origin: Netherlands. **origin institute:** Inst. for Hort.
Plant Breeding, Mansholtlaan 15, Wagenigan. **cultivar:**
Rolan. **pedigree:** Jonkheer Van Tets x Rosetta.
Perennial. Cultivar. Cutting.

PI 556053. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Wassenaar, L.M., Inst. Hort. Plant Breeding, Wagenigan, Netherlands. Received January 20, 1986.

origin: Netherlands. **origin institute:** Inst. for Hort. Plant Breeding, Mansholtlaan 15, Wagenigan. **cultivar:** Rovada. **pedigree:** Fay's Prolific x Heinemanns Rote Spatlese. Perennial. Cultivar. Cutting.

PI 556054. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Parfitt, B.D.K., Brogdale Exp. Sta., Faversham, Kent, England, United Kingdom. Received January 02, 1986.

origin: Netherlands. **origin institute:** Inst. for Hort. Plant Breeding, Mansholtlaan 15, Wagenigan. **cultivar:** Rosetta. **pedigree:** Jonkheer Van Tets x Heinemann's Rote Spatlese. Perennial. Cultivar. Cutting.

PI 556055. Ribes hybrid GROSSULARIACEAE Jostaberry

Donated by: Schultz, W., Philomath, Oregon, United States. Received February 12, 1986.

origin: United States. **historical origin:** Germany. **origin institute:** Erwin Bauer Institute, Volgsagen-Hannover, Oregon. **cultivar:** Josta. **pedigree:** Silvergeiters Schwarze x Gruene Hansa. **other id:** Yosta. **remarks:** Bred primarily for resistance to gooseberry mildew. Perennial. Cultivar. Cutting.

PI 556056. Ribes hybrid GROSSULARIACEAE Gooseberry

Donated by: Meyer, D., Meyer Orchards and Nursery, Salem, Oregon, United States. Received February 20, 1986.

origin: United States. **historical origin:** United States. **origin institute:** North Dakota State University, Agricultural Experiment Station, Fargo, North Dakota. **cultivar:** Pixwell. **pedigree:** Oregon (Oregon Champion) x R. missouriense. **remarks:** Easily picked, hence the name, sibling of cv. Perry. Perennial. Cultivar. Cutting.

PI 556057 to 556060. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Reich, J., Cornell University, NY Ag. Experiment Station, Geneva, New York, United States. Received February 27, 1986.

PI 556057 to 556060-continued

- PI 556057 **origin:** United States. **origin institute:** Cornell University, Ag. Experiment Station, Geneva, New York 14456. **cultivar:** NY 37. **pedigree:** OP Wilder seedling selection. Perennial. Breeding Material. Plant.
- PI 556058 **origin:** United States. **origin institute:** Cornell University, Ag. Experiment Station, Geneva, New York 14456. **cultivar:** NY 53. **pedigree:** (Prince Albert x Perfection) open pollinated. Perennial. Breeding Material. Plant.
- PI 556059 **origin:** United States. **origin institute:** Cornell University, Ag. Experiment Station, Geneva, New York 14456. **cultivar:** NY 68. **pedigree:** OP Minn-71 seedling selection. Perennial. Breeding Material. Plant.
- PI 556060 **origin:** United States. **origin institute:** Cornell University, Ag. Experiment Station, Geneva, New York 14456. **cultivar:** NY 72. **pedigree:** OP NY 2110 (Prince Albert x Perfection) selection. Perennial. Breeding Material. Plant.

PI 556061. Ribes hybrid GROSSULARIACEAE White Currant

Donated by: Trajkovski, V., Swedish University of Agricultural Sciences, Kristianstaad, Sweden. Received April 14, 1986.

origin: Sweden. **origin institute:** Swedish University of Agricultural Sci., Division of Fruit Breeding, Balsgard, Kristianstad S-291 94. **cultivar:** White Currant 1301. **locality:** Developed in Sweden. Perennial. Breeding Material. Cutting.

PI 556062. Ribes hybrid GROSSULARIACEAE

Donated by: Pirzio-Biroli, J., Washington Park Arboretum, Seattle, Washington, United States. Received March 31, 1987.

origin: China. Perennial. Cultivated. Cutting.

PI 556063. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Simms, Clive, Woodhurst, Essendine, Stamford, Lincolnshire, England, United Kingdom. Received April 21, 1987.

origin: United Kingdom. **cultivar:** Portal Ruby. Perennial. Cultivar. Plant.

PI 556064. Ribes hybrid GROSSULARIACEAE Currant

Donated by: Hermann, W., Seed Savers Exchange, Miller, South Dakota, United States. Received May 27, 1987.

origin: United States. **pedigree:** R. aureum x R. odoratum (?). **local name:** Buffalo Currant, Flowering Currant, Golden Currant. **remarks:** This may be a hybrid of cultivar Crandall. Perennial. Cultivated. Plant.

PI 556065 to 556067. Ribes hybrid GROSSULARIACEAE Black Currant

Donated by: Cacciotti, R., Cranston, Rhode Island, United States. Received November 30, 1987.

PI 556065 **origin:** United States. **historical origin:** Canada. **origin institute:** Canada Dept. Agriculture, Research Station, Ottawa, Ontario. **cultivar:** Consort. **pedigree:** Kerry (R. nigrum) x R. ussuriense. **other id:** Ottawa 396. **remarks:** This cultivar is immune to White Pine Blister Rust. Perennial. Cultivar. Plant.

PI 556066 **origin:** United States. **historical origin:** United States. **origin institute:** University of Minnesota, Minnesota. **cultivar:** Minn-71. Perennial. Breeding Material. Plant.

PI 556067 **origin:** United States. **historical origin:** Canada. **cultivar:** Sylvia. Perennial. Cultivar. Plant.

PI 556068 to 556071. Ribes hybrid GROSSULARIACEAE Jostaberry

Donated by: Kennedy, C.T., Calif. Rare Fruit Growers, San Francisco, California, United States. Received December 04, 1987.

PI 556068 **origin:** United States. **historical origin:** Sweden. **origin institute:** Max Planck Institute, Wadenswil, California. **cultivar:** Jostaberry type (red). **pedigree:** Black currant x R. divaricatum. **remarks:** Originally bred for resistance to gooseberry mildew. Perennial. Cultivar. Plant.

PI 556069 **origin:** United States. **historical origin:** Germany. **origin institute:** Max Planck Institute, Wadenswil, California. **cultivar:** Jostaberry type (black). **pedigree:** Silvergeiters Schwarze x Greune Hansa. Perennial. Cultivar. Plant.

PI 556068 to 556071-continued

PI 556070 **origin:** United States. **historical origin:** United States. **cultivar:** Wilder. **pedigree:** Seedling selection of cv. Versailles. **other id:** President Wilder. **remarks:** Versailles type, vigorous, large fruits. Perennial. Cultivar. Plant.

PI 556071 **origin:** United States. **historical origin:** Canada. **origin institute:** Agriculture Canada, Agricultural Research Station, Ottawa, Ontario. **cultivar:** Consort. **pedigree:** Kerry (R. nigrum) x R. ussuriense. **other id:** Ottawa 396. **remarks:** This cultivar is immune to White Pine Blister Rust. Perennial. Cultivar. Plant.

PI 556072 to 556073. Ribes hybrid GROSSULARIACEAE Black Currant

Donated by: N.I. Vavilov Institute of Plant, Industry, Leningrad, USSR. Received December 23, 1987.

PI 556072 **origin:** USSR. **historical origin:** United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from OP seed of cv. Golubka CRIB 834. **remarks:** Parent cultivar is resistant to Eriophyes ribis. Perennial. Breeding Material. Plant.

PI 556073 **origin:** USSR. **origin institute:** Vavilov Institute of Plant Industry, 44, Herzenstreet, Leningrad. **pedigree:** OP seed of cultivar Primorskij Cempion (nigrum x dikuscha). Perennial. Breeding Material. Seed.

PI 556074 to 556076. Ribes hybrid GROSSULARIACEAE Gooseberry

Donated by: Cacciotti, R., Cranston, Rhode Island, United States. Received October 08, 1988.

PI 556074 **origin:** United States. **historical origin:** United States. **cultivar:** Perkins. **remarks:** Berry large, up to 1" diameter, skin golden-yellow, almost translucent. No longer in production. Perennial. Cultivar. Plant.

PI 556075 **origin:** United States. **historical origin:** United States. **cultivar:** Houghton. **pedigree:** European Gooseberry (R. grossularia) x R. hirtellum. **remarks:** Foliage is susceptible to mildew, tho plant is hardy, vigorous and productive. Perennial. Cultivar. Plant.

PI 556074 to 556076-continued

PI 556076 **origin:** United States. **historical origin:** Canada.
cultivar: Clark. **pedigree:** Chance seedling, natural
hybrid of European & American spp. **other id:** Clarke.
remarks: Fruit very large, skin thick and rather tough,
mildew-free, easy to pick, late midseason. Perennial.
Cultivar. Plant.

PI 556077 to 556078. Ribes hybrid GROSSULARIACEAE Black Currant

Donated by: Eppler, A.I., Washington Park Arboretum, Seattle,
Washington, United States. Received November 28, 1988.

PI 556077 **origin:** United States. **historical origin:** United
Kingdom. **origin institute:** Scottish Hort. Research
Institute, Invergowrie, Scotland. **cultivar:** Jet.
pedigree: Brodorp seedling sel.n, derivative of
bracteosum, nigrum. **other id:** B 674/108. Perennial.
Cultivar. Cutting.

PI 556078 **origin:** United States. **historical origin:** Switzerland.
cultivar: Swiss Red Jostaberry. **pedigree:** Silvergeiters
Schwarze x Gruene Hansa. Perennial. Cultivar. Cutting.

PI 556079 to 556084. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: National Fruit Trials, Brogdale Farm, Faversham, Kent,
England, United Kingdom. Received November 08, 1989.

PI 556079 **origin:** United Kingdom. **cultivar:** Houghton Castle.
pedigree: R. rubrum x R. vulgare. Perennial. Cultivar.
Cutting.

PI 556080 **origin:** United Kingdom. **historical origin:** Netherlands.
cultivar: Rondon. **pedigree:** Backcross of R. multiflorum
to redcurrant cultivars. **remarks:** Mid-season flowering.
Slightly pear-shaped, dark red fruit. Perennial.
Cultivar. Cutting.

PI 556081 **origin:** United Kingdom. **historical origin:**
Czechoslovakia. **origin institute:** Research Institute of
Fruit and, Decorative Trees, Bojnice, England. **cultivar:**
Blanka. **pedigree:** Heinemann's Rote Spatlese x Red Lake.
other id: BO 113. **remarks:** Very frost resistant, very
productive, late season. Perennial. Cultivar. Cutting.

PI 556079 to 556084-continued

- PI 556082 **origin:** United Kingdom. **historical origin:** Czechoslovakia. **origin institute:** Research Institute of Fruit, and Decorative Trees, Bojnice, England. **cultivar:** Primus. **pedigree:** Heinemann's Rote Spatlese x Red Lake. **other id:** BO 122. **remarks:** Midseason, suitable for fresh market and processing. Perennial. Cultivar. Cutting.
- PI 556083 **origin:** United Kingdom. **historical origin:** Canada. **origin institute:** Agriculture Canada, Research Station, Ottawa, Ontario. **cultivar:** Captivator. **pedigree:** Spinefree x Clark. **other id:** Ottawa 272. **remarks:** Thornless, large, equal in size to the best American cv's. Perennial. Cultivar. Cutting.
- PI 556084 **origin:** United Kingdom. **historical origin:** Canada. **origin institute:** Agriculture Canada, Agricultural Research Station, Ottawa, Ontario. **cultivar:** Spinefree. **pedigree:** (F2 of R. oxyacanthoides x Victoria) x Mabel. **remarks:** Female parent of Captivator. Red-fruited cultivar. Perennial. Cultivar. Cutting.

PI 556085. Ribes hybrid GROSSULARIACEAE Gooseberry

Donated by: Brungardt, S., University of Minnesota, St. Paul, Minnesota, United States. Received December 21, 1989.

origin: United States. **historical origin:** United States. **cultivar:** Houghton. **pedigree:** European Gooseberry (R. grossularia) x R. hirtellum. **remarks:** Foliage is susceptible to mildew, tho plant is vigorous hardy and productive. Perennial. Cultivar. Cutting.

PI 556086 to 556088. Ribes hybrid GROSSULARIACEAE White Currant

Donated by: Reckin, J., Werbellin Experimental Gardens, Werbellin, Germany. Received March 13, 1990.

- PI 556086 **origin:** Germany. **historical origin:** UNCERTAIN. **cultivar:** Zitaxia. Perennial. Cultivar. Cutting.
- PI 556087 **origin:** Germany. **historical origin:** Netherlands. **cultivar:** Rondon. **pedigree:** Backcross of R. multiflorum to redcurrant cultivars. **remarks:** Mid-season flowering. Slightly pear-shaped, dark red fruit. Perennial. Cultivar. Cutting.
- PI 556088 **origin:** Germany. **historical origin:** UNCERTAIN. **cultivar:** Stanza. **remarks:** Heavy cropping, late flowering, large dark firm acid fruit. Perennial. Cultivar. Cutting.

PI 556089 to 556091. Ribes hybrid GROSSULARIACEAE Black Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received July 26, 1990.

PI 556089 **origin:** USSR. **origin institute:** VIR, Experiment Station, Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar Belorusskaya Seadkayer. **collected:** July 19, 1990. **remarks:** Parent cultivar developed in a breeding program in Minsk, Belorussia. Fruit ripe at collection time. Perennial. Breeding Material. Seed.

PI 556090 **origin:** USSR. **origin institute:** VIR, Experiment Station, Pavlovsky, Russian SFSR. **pedigree:** Klussovskaya x R. dikuscha. **collected:** July 19, 1990. **remarks:** Fruit is very uniform and has a pronounced bloom. Ripe at collection time. Perennial. Breeding Material. Seed.

PI 556091 **origin:** USSR. **origin institute:** VIR, Experiment Station, Pavlovsky, Russian SFSR. **pedigree:** OP seed of Swedish cultivar Triton. **collected:** July 19, 1990. **remarks:** Parent cultivar was developed from three species. Mildew resistant. Fruit ripe at collection time. Perennial. Breeding Material. Seed.

PI 556092 to 556095. Ribes hybrid GROSSULARIACEAE Red Currant

Donated by: Cvopa, J., Research Institute of Fruit and, Decorative Trees, Bojnice, Czechoslovakia. Received January 18, 1991.

PI 556092 **origin:** Czechoslovakia. **origin institute:** Research Institute of Fruit, and Decorative Trees, Bojnice. **cultivar:** Detvan. **pedigree:** Jonkheer van Tets x Heinemann's Rote Spatlese. **remarks:** Important early ripening redcurrant cultivar, vigorous, with high and stable yields. Perennial. Cultivar. Plant.

PI 556093 **origin:** Czechoslovakia. **origin institute:** Research Institute of Fruit, and Decorative Trees, Bojnice. **cultivar:** Detvan. **pedigree:** Red Lake x Goppertova. **remarks:** Late-ripening, with exceptionally long clusters, highly winter-hardy. Perennial. Cultivar. Plant.

PI 556094 **origin:** Czechoslovakia. **origin institute:** Research Institute of Fruit, and Decorative Trees, Bojnice. **cultivar:** Primus. **pedigree:** Heinemann's Rote Spatlese x Red Lake. **other id:** BO 122. **remarks:** Midseason, suitable for fresh market and processing. Perennial. Cultivar. Plant.

PI 556092 to 556095-continued

PI 556095 **origin:** Czechoslovakia. **origin institute:** Research Institute of Fruit and, Decorative Trees, Bojnice.
cultivar: Blanka. **pedigree:** Heinemann's Rote Spatlese x Red Lake. **other id:** BO 113. **remarks:** Very frost resistant, very productive, late season. Perennial. Cultivar. Plant.

PI 556096 to 556097. *Ribes* hybrid GROSSULARIACEAE Currant x Gooseberry Hybrid

Donated by: Hummer, K.E., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 24, 1991.

PI 556096 **origin:** United States. **origin institute:** USDA/ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97331. **pedigree:** Open pollinated from CRIB 214. **collected:** July 1991. **elevation:** 2100m. Perennial. Breeding Material. Seed.

PI 556097 **origin:** United States. **origin institute:** USDA/ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97331. **pedigree:** Open pollinated from CRIB 16. **collected:** July 1991. **elevation:** 2100m. Perennial. Breeding Material. Seed.

PI 556098. *Ribes inerme* Rydb. GROSSULARIACEAE Gooseberry

Donated by: Westwood, M.N., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 01, 1984.

origin: United States. **pedigree:** Collected from wild in Utah. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** July 01, 1984. **locality:** Soldier Creek Reservoir. **latitude:** 40 deg. 24 min. N. **longitude:** 111 deg. 18 min. W. **elevation:** 2590m. **remarks:** Spiny shrub to 60cm. Fruit greenish with warts. Perennial. Wild. Seed.

PI 556099 to 556100. *Ribes inerme* Rydb. GROSSULARIACEAE Gooseberry

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received August 10, 1985.

PI 556099 to 556100-continued

PI 556099 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** July 28, 1985. **locality:** Bend, between entrance to cave and Visitor's Center. **latitude:** 43 deg. 40 min. N. **longitude:** 121 deg. 20 min. W. **elevation:** 3600m. **remarks:** Reddish struggling plant to 2 m, one basal spine to each leaf. Perennial. Wild. Seed.

PI 556100 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** July 28, 1985. **locality:** DesChutes Nat'l Forest, Benham Falls, DesChutes River. **latitude:** 43 deg. 45 min. N. **longitude:** 121 deg. 30 min. W. **elevation:** 1280m. **remarks:** Purple black fruit, growing along water's edge. Perennial. Wild. Seed.

PI 556101 to 556109. *Ribes inerme* Rydb. GROSSULARIACEAE Gooseberry

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received August 26, 1987.

PI 556101 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** August 1987. **locality:** Pitkin Co., up from Conundrum Creek trailhead. **latitude:** 30 deg. 06 min. N. **longitude:** 106 deg. 51 min. W. **elevation:** 2900m. **remarks:** Fruit large, dark red-purple. Perennial. Wild. Seed.

PI 556102 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** August 1987. **locality:** Pitkin Co. 1 mile up from Conundrum Creek Trailhead. **latitude:** 39 deg. 05 min. N. **longitude:** 106 deg. 52 min. W. **elevation:** 3048m. **remarks:** Fruit color ranges from yellow-green to medium dark pink Shrub to 60 cm, not luxuriant. Perennial. Wild. Seed.

PI 556103 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** August 1987. **locality:** Pitkin Co. about 1 1/8 mile up from Conundrum Creek Trailhd. **latitude:** 39 deg. 05 min. N. **longitude:** 106 deg. 52 min. W. **elevation:** 3075m. **remarks:** Fruit green to dark purple, mostly borne singly but some in pairs. Perennial. Wild. Seed.

PI 556101 to 556109-continued

- PI 556104 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** August 1987. **locality:** Pitkin Co. 1 mile up from Conundrum Creek Trailhead. **latitude:** 39 deg. 05 min. N. **longitude:** 106 deg. 52 min. W. **elevation:** 3048m. **remarks:** Fruit from 3 bushes within 3m of each other, 8-12mm diam. Perennial. Wild. Seed.
- PI 556105 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** August 1987. **locality:** Near Entrance to Aspen Center for Environmental Studies. **latitude:** 39 deg. 11 min. N. **longitude:** 106 deg. 49 min. E. **elevation:** 2438m. **remarks:** Fruit edible, dark red to purple-black, glabrous, juicy. Perennial. Wild. Seed.
- PI 556106 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** August 1987. **locality:** Beside Castle Creek Road 2 miles from Ashcroft. **latitude:** 39 deg. 02 min. N. **longitude:** 106 deg. 48 min. W. **elevation:** 2850m. **remarks:** Seed collected from one very productive plant. Perennial. Wild. Seed.
- PI 556107 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** August 1987. **locality:** Pitkin Co., 3/4 mile up from Conundrum Creek Trailhead. **latitude:** 39 deg. 06 min. N. **longitude:** 106 deg. 52 min. W. **elevation:** 3000m. **remarks:** Small plant, 45cm, tends to have fruit in pairs on each node. Perennial. Wild. Seed.
- PI 556108 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** August 1987. **locality:** Pitkin Co. 7/8 mile up from Conundrum Creek Trailhead. **latitude:** 39 deg. 05 min. N. **longitude:** 106 deg. 52 min. W. **elevation:** 3025m. **remarks:** Fruit just turning light pink, 1-4 fruits/spur on older wood. Perennial. Wild. Seed.
- PI 556109 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** White-stem Gooseberry, White Gooseberry. **collected:** August 1987. **locality:** Pitkin Co. 1 mile up from Conundrum Creek Trailhead. **latitude:** 39 deg. 05 min. N. **longitude:** 106 deg. 52 min. W. **elevation:** 3048m. **remarks:** May be identical to RIB 291. Perennial. Wild. Seed.

PI 556110 to 556112. *Ribes janczewskii* Pojark. GROSSULARIACEAE
Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received July 26, 1990.

PI 556110 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **collected:** July 10, 1990. **locality:** Sioma canyon, 55km N of Dushanbe, among rocks by the river. **elevation:** 1700m. **remarks:** Shrub about 0.5m. No fruit, only one remaining dry stalk of inflorescence. Possibly a male plant. Perennial. Wild. Plant.

PI 556111 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **collected:** July 10, 1990. **locality:** Sioma canyon, 55km N of Dushanbe in Hissar Range. **elevation:** 1700m. **remarks:** Shrub growing among rocks by river, 0.4m tall, with few green (immature) fruit. Perennial. Wild. Plant.

PI 556112 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **collected:** July 10, 1990. **locality:** Sioma canyon in Hissar Range, 55km N of Dushanbe. **elevation:** 1700m. **remarks:** Shrubs growing among rocks near river. To 0.75m, fruits not fully ripe, seed may be too immature. Perennial. Wild. Seed.

PI 556113. *Ribes komarovii* Pojark. GROSSULARIACEAE Currant

Donated by: Hort. Bot. Acad. Sci., Tashkent, Uzbek SSR, USSR.
Received February 24, 1987.

origin: USSR. **historical origin:** United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from seed CRIB 823. Perennial. Breeding Material. Plant.

PI 556114. *Ribes komarovii* Pojark. GROSSULARIACEAE Currant

Donated by: Hort. Bot. Acad. Sci., Tashkent, Uzbek SSR, USSR.
Received April 24, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. Perennial. Cultivated. Seed.

PI 556115. *Ribes komarovii* Pojark. GROSSULARIACEAE Currant

Donated by: Koropachunsky, I., Central Siberian Botanical Garden, Novosibirsk, USSR. Received January 1991.

PI 556115-continued

origin: USSR. **pedigree:** Open pollinated from botanical collection. **collected:** October 16, 1990. **remarks:** Mother plant collected in Primorye Territory, Khakassky region, reservation 'Kedrovaya Pad'. Perennial. Cultivated. Seed.

PI 556116. *Ribes komarovii* Pojark. GROSSULARIACEAE Currant

Donated by: Miller, C. Ferris, Chollipo Arboretum, Seoul, Korea, Republic of. Received June 07, 1991.

origin: Korea, Republic of. **pedigree:** Open-pollinated from botanical collection. **remarks:** Parent plant collected from Mt. Kyebang, Pyong Chan-Gun, at 800m. Heavily fruited shrub to 2.5m. Perennial. Cultivated. Seed.

PI 556117. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 07, 1983.

origin: United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Oregon seedlot CRIB 807. Perennial. Breeding Material. Plant.

PI 556118. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE Gooseberry

Donated by: Chandler, J., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 07, 1983.

origin: United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Idaho seedlot CRIB 813. Perennial. Breeding Material. Plant.

PI 556119. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received August 15, 1983.

origin: United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Oregon seedlot CRIB 817. **local name:** Gummy Gooseberry, Oregon Gooseberry, Pioneer Gooseberry. Perennial. Breeding Material. Plant.

PI 556120. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE Gooseberry

Donated by: Witt, J.A., Washington Park Arboretum, Seattle, Washington, United States. Received June 05, 1984.

origin: United States. **pedigree:** Collected from the wild in Idaho. **local name:** Swamp or Prickly Currant, Swamp Gooseberry. **locality:** Above Riggins in Idaho County. **latitude:** 45 deg. 30 min. N. **longitude:** 116 deg. 20 min. W. **elevation:** 1530m. Perennial. Wild. Seed.

PI 556121 to 556122. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 07, 1984.

PI 556121 **origin:** Canada. **pedigree:** Collected from the wild in Canada. **local name:** Swamp or Prickly Currant, Swamp Gooseberry. **collected:** July 01, 1984. **locality:** Alberta Border, Crowsnest Pass. **latitude:** 48 deg. 50 min. N. **longitude:** 114 deg. 40 min. W. **elevation:** 1400m. **remarks:** Thorny shrub to 1.5m, plants in bloom to young fruit. Perennial. Wild. Plant.

PI 556122 **origin:** Canada. **pedigree:** Collected from the wild in Canada. **local name:** Swamp or Prickly Currant, Swamp Gooseberry. **collected:** July 02, 1984. **locality:** Crowsnest Pass, Island Lake Campground. **latitude:** 49 deg. 10 min. N. **longitude:** 114 deg. 40 min. W. **elevation:** 1380m. **remarks:** Fruit partially developed, thorny shrub to 1.5m. Perennial. Wild. Plant.

PI 556123. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE Gooseberry

Donated by: Devonian Botanical Gardens, Edmonton, Alberta, Canada. Received November 07, 1984.

origin: Canada. **pedigree:** Open pollinated from botanical collection. **local name:** Swamp or Prickly Currant, Swamp Gooseberry. Perennial. Cultivated. Seed.

PI 556124 to 556126. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE
Gooseberry

Donated by: Ballington, J.R., North Carolina State Univ.,
Horticulture Department, Raleigh, North Carolina, United States.
Received August 21, 1985.

PI 556124 **origin:** United States. **pedigree:** Collected from the wild
in Washington. **local name:** Swamp or Prickly Currant,
Swamp Gooseberry. **collected:** August 07, 1985. **locality:**
Gifford Pinchot Nat'l Forest, in clearcut & along
roadbank. **latitude:** 46 deg. 30 min. N. **longitude:** 122
deg. 00 min. W. **elevation:** 915m. **remarks:** Productive
plants. Perennial. Wild. Seed.

PI 556125 **origin:** United States. **pedigree:** Collected from the wild
Washington. **local name:** Swamp or Prickly Currant, Swamp
Gooseberry. **collected:** August 11, 1985. **locality:**
Olympic Nat'l Forest, at wood's edge. **latitude:** 48 deg.
50 min. N. **longitude:** 123 deg. 30 min. W. **elevation:**
490m. **remarks:** Fruit sample from one large plant.
Perennial. Wild. Seed.

PI 556126 **origin:** United States. **pedigree:** Collected from the wild
in Washington. **local name:** Swamp or Prickly Currant,
Swamp Gooseberry. **collected:** August 13, 1985. **locality:**
Olympic Nat'l Forest, in moist cove, northwest aspect.
latitude: 48 deg. 00 min. N. **longitude:** 123 deg. 30 min.
W. **elevation:** 2700m. **remarks:** Population collection.
Perennial. Wild. Seed.

PI 556127. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE Gooseberry

Donated by: Ballington, J.R., North Carolina State Univ.,
Horticulture Department, Raleigh, North Carolina, United States.
Received August 29, 1985.

origin: United States. **pedigree:** Collected from the wild
in Oregon. **local name:** Swamp or Prickly Currant, Swamp
Gooseberry. **collected:** July 30, 1985. **locality:**
Deschutes Nat'l Forest, near lake margin, 10 degree
slope. **latitude:** 43 deg. 50 min. N. **longitude:** 121 deg.
50 min. W. **elevation:** 1400m. **remarks:** Dark purple to
black fruit. Population sample. Perennial. Wild.
Seed.

PI 556128 to 556129. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE
Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon, United States. Received September 18, 1985.

PI 556128 to 556129-continued

PI 556128 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Swamp or Prickly Currant, Swamp Gooseberry. **collected:** September 1985. **locality:** Several sites near Devils Lake, plants near wet areas. **latitude:** 45 deg. 00 min. N. **longitude:** 124 deg. 00 min. W. **elevation:** 1000m. **remarks:** Fruit limited to plants near wet area. Perennial. Wild. Seed.

PI 556129 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Swamp or Prickly Currant, Swamp Gooseberry. **collected:** August 28, 1985. **locality:** Open coniferous forest along creek south of logged area. **latitude:** 44 deg. 12 min. N. **longitude:** 123 deg. 00 min. W. **elevation:** 1500m. **remarks:** Sprawling shrub, moderate to heavy crop. Perennial. Wild. Seed.

PI 556130. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE Gooseberry

Donated by: Fredricks, N., Oregon State University, Corvallis, Oregon, United States. Received July 13, 1987.

origin: United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Oregon seedlot CRIB 827. **local name:** Swamp or Prickly Currant, Swamp Gooseberry. Perennial. Breeding Material. Plant.

PI 556131. *Ribes lacustre* (Pers.) Poir. GROSSULARIACEAE Gooseberry

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received September 20, 1990.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Swamp or Prickly Currant, Swamp Gooseberry. **collected:** August 25, 1990. **locality:** South end of Waldo Lake, near Shadow Bay Campground. **latitude:** 43 deg. 45 min. N. **longitude:** 122 deg. 05 min. W. **elevation:** 1660m. **remarks:** Herbarium specimen also received. Found in moist areas where there were small creeks or seepages flowing into lake. Perennial. Wild. Seed.

PI 556132. *Ribes latifolium* Jancz. GROSSULARIACEAE Currant

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR. Received April 24, 1987.

PI 556132-continued

origin: USSR. **pedigree:** Open-pollinated seed from botanical collection. **local name:** Ezo-suguri. Perennial. Cultivated. Seed.

PI 556133. *Ribes laxiflorum* GROSSULARIACEAE Currant

Donated by: Larsson, Gunny, Swedish University of Agric. Sci., Umea, Sweden. Received July 24, 1989.

origin: Canada. **historical origin:** Sweden. **local name:** Coast Trailing Currant, Loose-Flowering Currant. Perennial. Breeding Material. Cutting.

PI 556134. *Ribes leptanthum* A. Gray
Gooseberry

U GROSSULARIACEAE

Donated by: Witt, J.A., Washington Park Arboretum, Seattle, Washington, United States. Received December 09, 1983.

origin: United States. **pedigree:** Uncertain, possibly seedling selection from wild seed. **local name:** Trumpet Gooseberry. **collected:** January 01, 1953. Perennial. Cultivated. Cutting.

PI 556135 to 556137. *Ribes leptanthum* A. Gray
GROSSULARIACEAE Gooseberry

U

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received August 26, 1987.

PI 556135 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Colorado seedlot. **local name:** Trumpet Gooseberry. Perennial. Breeding Material. Plant.

PI 556136 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** Trumpet Gooseberry. **collected:** August 1987. **locality:** 20 miles NW of Gypsum in Sweetwater Creek Valley. **latitude:** 39 deg. 47 min. N. **longitude:** 107 deg. 07 min. W. **elevation:** 2134m. **remarks:** Especially productive, often 2 fruit/spur. Perennial. Wild. Seed.

PI 556135 to 556137-continued

PI 556137 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** Trumpet Gooseberry. **collected:** August 1987. **locality:** About 20 miles NW of Gypsum in Sweetwater Creek Valley. **latitude:** 39 deg. 47 min. N. **longitude:** 107 deg. 07 min. W. **elevation:** 2100m. **remarks:** Fruit dark purple to almost black, plant is productive. Perennial. Wild. Seed.

PI 556138. *Ribes leptanthum* A. Gray U GROSSULARIACEAE
Gooseberry

Donated by: Pirzio-Biroli, J., Washington Park Arboretum, Seattle, Washington, United States. Received June 16, 1989.

origin: United States. **pedigree:** Selection from the wild from the Southwestern US. **local name:** Trumpet Gooseberry. **collected:** January 01, 1953. Perennial. Cultivated. Plant.

PI 556139. *Ribes lobbii* A. Gray GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received August 15, 1983.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Gummy Gooseberry, Oregon Gooseberry, Pioneer Gooseberry. **collected:** August 11, 1983. **locality:** Willamette Nat'l Forest near Cougar Reservoir. **latitude:** 44 deg. 00 min. N. **longitude:** 119 deg. 30 min. W. **elevation:** 1350m. **remarks:** Black fruit with stipitate glands, poor set. Perennial. Wild. Seed.

PI 556140. *Ribes lobbii* A. Gray GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 10, 1984.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Gummy Gooseberry, Oregon Gooseberry, Pioneer Gooseberry. **collected:** August 23, 1984. **locality:** Rogue River Nat'l Forest, Jackson Co. Fish Lake. **latitude:** 42 deg. 00 min. N. **longitude:** 123 deg. 30 min. W. **elevation:** 1500m. **remarks:** Thorny shrub to 1m, fruit round-elongate oval, surface with numerous sticky glands. Perennial. Wild. Seed.

PI 556141. *Ribes lobbii* A. Gray GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received August 23, 1984.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Gummy Gooseberry, Oregon Gooseberry, Pioneer Gooseberry. **collected:** August 23, 1984. **locality:** Rogue River Nat'l Forest, Fish lake by Hwy. 140. **latitude:** 42 deg. 00 min. N. **longitude:** 122 deg. 00 min. W. **elevation:** 1650m. **remarks:** Population sample, thorny plants to 1m, upright to spreading. Perennial. Wild. Seed.

PI 556142. *Ribes lobbii* A. Gray GROSSULARIACEAE Gooseberry

Donated by: Witt, J.A., Washington Park Arboretum, Seattle, Washington, United States. Received May 03, 1985.

origin: United States. **pedigree:** Collected from the wild in Washington. **local name:** Gummy Gooseberry, Oregon Gooseberry, Pioneer Gooseberry. **locality:** Whatcom Co., North Cascades Mountains. **latitude:** 47 deg. 00 min. N. **longitude:** 121 deg. 00 min. W. Perennial. Wild. Seed.

PI 556143. *Ribes lobbii* A. Gray GROSSULARIACEAE Gooseberry

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received August 07, 1985.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Gummy Gooseberry, Oregon Gooseberry, Pioneer Gooseberry. **collected:** July 25, 1985. **locality:** Siskyou National Forest near Williams. **latitude:** 42 deg. 10 min. N. **longitude:** 123 deg. 20 min. W. **elevation:** 1300m. **remarks:** Sticky surface (glands) on fruit. Perennial. Wild. Seed.

PI 556144. *Ribes lobbii* A. Gray GROSSULARIACEAE Gooseberry

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received August 29, 1985.

PI 556144-continued

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Gummy Gooseberry, Oregon Gooseberry, Pioneer Gooseberry. **collected:** July 25, 1985. **locality:** Siskiyou National Forest. **latitude:** 46 deg. N. **longitude:** 123 deg. W. **elevation:** 1440m. **remarks:** Sticky fruit surface same species as BL-18-3. Perennial. Wild. Seed.

PI 556145. *Ribes lobbii* A. Gray GROSSULARIACEAE Gooseberry

Donated by: Berry Botanic Garden, Portland, Oregon, United States. Received December 23, 1987.

origin: United States. **pedigree:** Collected from the wild in Washington. **local name:** Gummy Gooseberry, Oregon Gooseberry, Pioneer Gooseberry. **locality:** Olympic Peninsula, Southwest Washington State. **latitude:** 47 deg. 30 min. N. **longitude:** 123 deg. 30 min. W. Perennial. Wild. Seed.

PI 556146. *Ribes lobbii* A. Gray GROSSULARIACEAE Gooseberry

Donated by: Berry Botanic Garden, Portland, Oregon, United States. Received January 04, 1990.

origin: United States. **pedigree:** Collected from the wild in Washington. **local name:** Gummy Gooseberry, Oregon Gooseberry, Pioneer Gooseberry. **latitude:** 47 deg. 50 min. N. **longitude:** 121 deg. W. Perennial. Wild. Seed.

PI 556147. *Ribes mandshuricum* (Maxim.) Komarov GROSSULARIACEAE

Donated by: Rui, Hau, Jilin Agricultural University, Changchun, Jilin, China. Received January 04, 1985.

origin: China. **pedigree:** Collected from the wild in China. **latitude:** 30 deg. N. **longitude:** 110 deg. E. Perennial. Wild. Seed.

PI 556148. *Ribes mandshuricum* var. *subglabratum* GROSSULARIACEAE

Donated by: Westwood, M.N., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 12, 1982.

origin: Korea, Republic of. **pedigree:** Open-pollinated from botanical collection. **collected:** September 05, 1981. Perennial. Cultivated. Seed.

PI 556149. *Ribes maximowiczii* Batal. GROSSULARIACEAE Currant

Donated by: Pirzio-Biroli, J., Washington Park Arboretum, Seattle, Washington, United States. Received March 31, 1987.

origin: China. **pedigree:** Seedling selection from seed collected in Western China. **local name:** Zarigomi. **collected:** January 01, 1952. Perennial. Cultivated. Cutting.

PI 556150. *Ribes maximowiczii* Batal. GROSSULARIACEAE Currant

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR. Received April 24, 1987.

origin: USSR. **historical origin:** United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from seedlot CRIB 822. **local name:** Zarigomi. Perennial. Breeding Material. Plant.

PI 556151. *Ribes maximowiczii* Batal. GROSSULARIACEAE Currant

Donated by: Pirzio-Biroli, J., Washington Park Arboretum, Seattle, Washington, United States. Received June 16, 1989.

origin: China. **pedigree:** Selection from the wild from Western China. **local name:** Zarigomi. **collected:** January 01, 1952. Perennial. Cultivated. Plant.

PI 556152 to 556153. *Ribes menziesii* Pursh GROSSULARIACEAE

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received June 20, 1991.

PI 556152 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** June 19, 1991. **locality:** Curry County, Rogue River. Perennial. Wild. Plant.

PI 556153 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** June 19, 1991. **locality:** Curry County, Brushy Creek. Perennial. Wild. Plant.

PI 556154 to 556155. *Ribes meyeri* Maxim. GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received July 26, 1990.

PI 556154 to 556155-continued

PI 556154 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **collected:** July 16, 1990. **locality:** Nature preserve in Zailinsky Ala Tau, near a stream. **remarks:** Densely vegetated area. Shrubs to 2m tall. Perennial. Wild. Seed.

PI 556155 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **collected:** July 16, 1990. **locality:** Nature preserve in Zailinsky Ala Tau, near a stream. **remarks:** Densely vegetated area. Shrubs to 2m tall. Perennial. Wild. Seed.

PI 556156. *Ribes meyeri* Maxim. GROSSULARIACEAE Currant

Donated by: Holloway, P.S., University of Alaska, Fairbanks, Alaska, United States. Received February 11, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. **collected:** August 10, 1990. **remarks:** Original seed source was in Middle Asia. Perennial. Cultivated. Seed.

PI 556157. *Ribes montigenum* McClatchie GROSSULARIACEAE

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received July 18, 1991.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Spiny Currant. **collected:** July 1991. **locality:** SW of town of Silver Lake along the road shoulder. **elevation:** 2100m. Perennial. Wild. Plant.

PI 556158. *Ribes nevadense* Kellogg GROSSULARIACEAE Currant

Donated by: Forest Farm Nursery, Williams, Oregon, United States. Received May 21, 1991.

origin: United States. **pedigree:** Selected from the wild in California. **local name:** Mountain Pink Currant. **locality:** Lake Tahoe, Sierra Nevada Mtns, California. **remarks:** Catalog description: rounded medium shrub with pendulous clusters of pink flowers and blue fruits. Perennial. Cultivated. Plant.

PI 556159 to 556163. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Lawrence, F.J., USDA/ARS, Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received 1981.

PI 556159 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Daniels Bros., Norwich, England. **cultivar:** Black September. **pedigree:** Possibly a bud mutation of Baldwin. **other id:** Daniel's September. **remarks:** Large fruit in long clusters, late ripening. Perennial. Cultivar. Plant.

PI 556160 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Champion. **pedigree:** Chance seedling. **other id:** Carter's Champion. **other id:** Black Champion. **remarks:** Fruit clusters short, loose, bushes large, vigorous and spreading. Perennial. Cultivar. Plant.

PI 556161 **origin:** United States. **historical origin:** Canada. **cultivar:** Kerry. **pedigree:** Second generation seedling selection of cv. Naples. **remarks:** Vigorous, very productive. Perennial. Cultivar. Plant.

PI 556162 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Alagan. Perennial. Cultivar. Plant.

PI 556163 **origin:** United States. **historical origin:** Netherlands. **cultivar:** Boskoop Giant. **pedigree:** Seedling selection. **other id:** Boscop Riesen. **other id:** Dutch Black. **other id:** Geant de Boskoop. **remarks:** Early midseason, moderate cropper. Considered in England to be the best all-around black currant. Perennial. Cultivar. Plant.

PI 556164. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Moore, N., Plant Materials Center, Palmer, Alaska, United States. Received 1981.

origin: United States. **historical origin:** Sweden. **cultivar:** Swedish Black. Perennial. Cultivar. Plant.

PI 556165. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Denisen, E.L., Iowa State University, Ames, Iowa, United States. Received July 27, 1983.

origin: United Kingdom. **origin institute:** East Malling Research Station, Maidstone, Kent, England. **local name:** Black Currant. Perennial. Breeding Material. Seed.

PI 556166. Ribes nigrum L. GROSSULARIACEAE Black Currant

Donated by: Seibert, T., Forked River, New Jersey, United States.
Received 1984.

origin: United States. **historical origin:** Germany.
cultivar: Strata. Perennial. Cultivar. Plant.

PI 556167. Ribes nigrum L. GROSSULARIACEAE Black Currant

Donated by: Seibert, T., Forked River, New Jersey, United States.
Received February 08, 1984.

origin: United States. **historical origin:** Germany.
cultivar: Invigo. **remarks:** Specially suited to machine
harvest, late flowering, erect growth habit, firm fruit.
Perennial. Cultivar. Plant.

PI 556168. Ribes nigrum L. GROSSULARIACEAE Black Currant

Donated by: Sjulín, T., Washington State University, Western
Washington Research Station, and Extension Center, Puyallup,
Washington, United States. Received January 17, 1984.

origin: United States. **historical origin:** United
Kingdom. **cultivar:** Baldwin. **other id:** Baldwin's
Champion. **other id:** Hilltop Champion. **other id:**
Wallace's Seedling. **remarks:** Fruit size varies, flavor
milder than common black currants. Perennial. Cultivar.
Plant.

PI 556169. Ribes nigrum L. GROSSULARIACEAE Black Currant

Donated by: Schultz, W., Philomath, Oregon, United States. Received
February 12, 1986.

origin: United States. **historical origin:** UNKNOWN.
remarks: This clone is an unidentified black currant
cultivar, reported to have good juice. Perennial.
Cultivar. Cutting.

PI 556170 to 556176. Ribes nigrum L. GROSSULARIACEAE Black Currant

Donated by: Kennedy, C.T., Calif. Rare Fruit Growers, San Francisco,
California, United States. Received December 04, 1987.

PI 556170 **origin:** United States. **historical origin:** France.
cultivar: Noir de Bourgogne. **other id:** Cassis de Dijon.
remarks: Flowers late and ripens relatively early.
Perennial. Cultivar. Plant.

PI 556170 to 556176-continued

- PI 556171 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Baldwin. **other id:** Kent. **other id:** Wallace's Seedling. **other id:** Baldwin's Champion. **remarks:** Medium-sized berries with good color and flavor. Perennial. Cultivar. Plant.
- PI 556172 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** East Malling Research Station, Maidstone, Kent, England. **cultivar:** Wellington XXX. **pedigree:** Boskoop Giant x Baldwin. **remarks:** Early to leaf out and flower, moderately tough-skinned berries ripen midseason. Perennial. Cultivar. Plant.
- PI 556173 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Amos Black. **pedigree:** Goliath x Baldwin. **remarks:** Spring frost resistant, late flowering cultivar, berries ship well. Perennial. Cultivar. Plant.
- PI 556174 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Westwick Triumph. **pedigree:** Derived from Goliath. **remarks:** Late season, ripens evenly. Moderately vigorous. Perennial. Cultivar. Plant.
- PI 556175 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Laxton Brothers, Bedford, England. **cultivar:** Blacksmith. **other id:** Laxton's Blacksmith. **remarks:** Vigorous plants, berries medium sized in long clusters. Perennial. Cultivar. Plant.
- PI 556176 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** W. Seabrook & Son, Chalmersford, England. **cultivar:** Seabrooks Black. **pedigree:** Probably French Black OP seedling selection. **remarks:** Leafs out late, flowers late mid-season. Vigorous, fairly compact, upright, much branched. Perennial. Cultivar. Plant.

PI 556177 to 556183. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: N.I. Vavilov Institute of Plant, Industry, Leningrad, USSR. Received December 23, 1987.

- PI 556177 **origin:** USSR. **origin institute:** Vavilov Institute of Plant Industry, 44, Herzenstreet, Leningrad. **pedigree:** OP seed of cultivar Kantata.50. Perennial. Breeding Material. Seed.

PI 556177 to 556183-continued

- PI 556178 **origin:** USSR. **origin institute:** Vavilov Institute of Plant Industry, 44, Herzenstreet, Leningrad. **pedigree:** OP seed of Leningradskij Velikan. **other id:** Hybrid 6-30. Perennial. Breeding Material. Seed.
- PI 556179 **origin:** USSR. **origin institute:** Vavilov Institute of Plant Industry, 44, Herzenstreet, Leningrad. **pedigree:** OP seed of cultivar Stahanovka Altaja. **remarks:** Parent cultivar is very productive, hence the name 'Stahanovka' after the worker Stahanov. Perennial. Breeding Material. Seed.
- PI 556180 **origin:** USSR. **historical origin:** United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from OP seed of Minej Smyrev CRIB 835. Perennial. Breeding Material. Plant.
- PI 556181 **origin:** USSR. **origin institute:** Vavilov Institute of Plant Industry, 44, Herzenstreet, Leningrad. **pedigree:** OP Nariadnaja seed. Perennial. Breeding Material. Seed.
- PI 556182 **origin:** USSR. **historical origin:** United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling sel. from OP seed of cv Neosypajucsajasia CRIB 836. **remarks:** Parent cultivar has good winter hardiness, ripens early resistant to Pseudopeziza leaf spot. Perennial. Breeding Material. Plant.
- PI 556183 **origin:** USSR. **origin institute:** Vavilov Institute of Plant Industry, 44, Herzenstreet, Leningrad. **pedigree:** OP seed of cultivar Pilot Aleksandr Mamkin. **remarks:** Parent cultivar is resistant to anthracnose. Perennial. Breeding Material. Seed.

PI 556184. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: McKay, S., Booneville, California, United States.
Received February 05, 1988.

origin: United States. **historical origin:** United Kingdom. **cultivar:** Amos Black. **pedigree:** Goliath x Baldwin. **remarks:** Resistant to spring frosts, late flowering, fruits ship well. Perennial. Cultivar. Plant.

PI 556185 to 556186. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Larsson, Gunny, Swedish University of Agric. Sci., Umea, Sweden. Received November 10, 1988.

PI 556185 **origin:** Sweden. **origin institute:** Experimental Division of N. Swedish, Horticulture, Brinkvagen II S-902 48. **cultivar:** Swedish selection 1/68-5. **pedigree:** Selection of *Ribes nigrum*. **remarks:** Very hardy, berries have an excellent flavor. Perennial. Breeding Material. Plant.

PI 556186 **origin:** Sweden. **origin institute:** Experimental Div. of N. Swedish, Horticulture, Brinkvagen II S-902-48. **cultivar:** Ojebyn. **pedigree:** Seedling selection. **remarks:** Midseason, dwarf habit, very hardy. Fruit uneven in size, generally thick skinned. Perennial. Cultivar. Plant.

PI 556187 to 556202. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Eppler, A.I., Washington Park Arboretum, Seattle, Washington, United States. Received November 28, 1988.

PI 556187 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Baldwin. **other id:** Baldwin's Black. **other id:** Carter's Champion. **other id:** Kent. **remarks:** This cultivar has been widely grown in England Medium sized berries of good color and flavor. Perennial. Cultivar. Plant.

PI 556188 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Baldwin Hilltop. **pedigree:** Seedling selection of cv. Baldwin. **remarks:** Considered to be a little more vigorous than Baldwin but otherwise identical. Perennial. Cultivar. Plant.

PI 556189 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Scottish Crop Research Institute, Invergowrie, Scotland. **cultivar:** Ben Mor. Perennial. Cultivar. Cutting.

PI 556190 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Scottish Crop Research Institute, Invergowrie, Scotland. **cultivar:** Ben Nevis. **pedigree:** Composite of cv's Consort, Magnus, Brodthorp and Janslunda. Perennial. Cultivar. Cutting.

PI 556191 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Blackdown. **pedigree:** Baldwin x Brodthorp. **remarks:** Heavy cropper, mildew resistant. Perennial. Cultivar. Cutting.

PI 556187 to 556202-continued

- PI 556192 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Black Reward. **other id:** Middlerode 20 (M20). **other id:** Haarsteegse OP. **remarks:** Specially suited to machine picking, strong and erect. Large, very firm fruit. Perennial. Cultivar. Cutting.
- PI 556193 **origin:** United States. **historical origin:** Finland. **cultivar:** Brodthorp. **other id:** Danish Black. **other id:** Sevegord. **other id:** Sobacksgard. **remarks:** Hardy and compact, highly self-fertile, early flowering. Perennial. Cultivar. Cutting.
- PI 556194 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Green's Black. **pedigree:** Said to be a seedling selection of cv. Norfolk. **other id:** Dereham 14. Perennial. Cultivar. Cutting.
- PI 556195 **origin:** United States. **historical origin:** Canada. **cultivar:** Kerry. **pedigree:** Second generation seedling selection of cv. Naples. **remarks:** Plants are vigorous and very productive, midseason to late Large fruit with thick skin. Perennial. Cultivar. Cutting.
- PI 556196 **origin:** United States. **historical origin:** Canada. **cultivar:** Magnus. **pedigree:** Second generation seedling of Black Naples. **remarks:** Plants are vigorous and very productive, midseason Hardy, productive and outstanding quality. Perennial. Cultivar. Cutting.
- PI 556197 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Univ. Bristol Research Station, Long Ashton, England. **cultivar:** Mendip Cross. **pedigree:** Baldwin x Boskoop Giant. **remarks:** Ripens early, high yielder. Perennial. Cultivar. Cutting.
- PI 556198 **origin:** United States. **historical origin:** Netherlands. **cultivar:** Silvergeiters Schwarze. **pedigree:** Open-pollinated seedling of R. nigrum cv. Boskoop Giant. **other id:** Silvergieters Black. **remarks:** Late flowering, self fertile, aromatic berries have medium vitamin C content. Perennial. Cultivar. Cutting.
- PI 556199 **origin:** United States. **historical origin:** Netherlands. **cultivar:** Tena. Perennial. Cultivar. Cutting.
- PI 556200 **origin:** United States. **historical origin:** Netherlands. **cultivar:** Tsema. Perennial. Cultivar. Cutting.
- PI 556201 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Westwick Choice. **pedigree:** Baldwin selfed. **remarks:** Late to very late. Perennial. Cultivar. Cutting.

PI 556187 to 556202-continued

PI 556202 **origin:** United States. **historical origin:** Canada.
cultivar: Willoughby. **remarks:** Mildew-resistant,
self-fruitful, late season. Vigor poor to fair.
Perennial. Cultivar. Cutting.

PI 556203. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Eppler, A.I., Washington Park Arboretum, Seattle,
Washington, United States. Received October 28, 1988.

origin: United States. **historical origin:** United
Kingdom. **origin institute:** Scottish Crop Research
Institute, Invergowrie, Scotland. **cultivar:** Ben Lomand.
pedigree: Composite of cv's Consort, Magnus, Brodorp and
Janslunda. Perennial. Cultivar. Cutting.

PI 556204. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Eppler, A.I., Washington Park Arboretum, Seattle,
Washington, United States. Received December 16, 1988.

origin: United States. **historical origin:** Netherlands.
cultivar: Risager. Perennial. Cultivar. Cutting.

PI 556205 to 556224. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Vandenberg, A., Horticultural Research Inst., Vineland,
Ontario, Canada. Received April 26, 1989.

PI 556205 **origin:** Sweden. **cultivar:** 73010-39. Perennial.
Breeding Material. Cutting.

PI 556206 **origin:** Canada. **historical origin:** France. **cultivar:**
Pinot Debourksanof. Perennial. Cultivar. Cutting.

PI 556207 **origin:** Canada. **cultivar:** Saunders. **pedigree:** Second
generation seedling of cv Naples. **remarks:** Midseason,
vigorous and fairly productive. Medium sized berries
that ripen evenly. Perennial. Cultivar. Cutting.

PI 556208 **origin:** Canada. **historical origin:** United Kingdom.
cultivar: Raven. Perennial. Cultivar. Cutting.

PI 556209 **origin:** Canada. **historical origin:** United Kingdom.
origin institute: Univ. Bristol Research Station, Long
Ashton, England. **cultivar:** Malvern Cross. **pedigree:**
Baldwin x Victoria. **other id:** Malvern. **remarks:**
Resembles Baldwin, late season, thick tough skin.
Perennial. Cultivar. Cutting.

PI 556205 to 556224-continued

- PI 556210 **origin:** Canada. **historical origin:** United Kingdom. **origin institute:** Scottish Crop Research Institute, Invergowrie, Scotland. **cultivar:** Ben Sarek. **pedigree:** (Goliath x Ojebyn) OP seedling selection. **remarks:** Most appropriate for home gardens and small scale commerce, with good frost tolerance and high yield. Perennial. Cultivar. Cutting.
- PI 556211 **origin:** Sweden. **cultivar:** 74020-6. Perennial. Breeding Material. Cutting.
- PI 556212 **origin:** Canada. **historical origin:** USSR. **cultivar:** Barchatnaja. **pedigree:** Kent x unspecified Siberian species. **remarks:** High yielder, winter hardy, large fruit, self-sterile. Early flowering. Perennial. Cultivar. Cutting.
- PI 556213 **origin:** Canada. **historical origin:** Poland. **cultivar:** Kosmioleskaja. Perennial. Cultivar. Cutting.
- PI 556214 **origin:** Canada. **historical origin:** Poland. **cultivar:** Stodkopounnja. Perennial. Cultivar. Cutting.
- PI 556215 **origin:** Canada. **historical origin:** USSR. **cultivar:** Kantata.50. **other id:** Kantata. **remarks:** Resistant to anthracnose, self-fertile. Perennial. Cultivar. Cutting.
- PI 556216 **origin:** Canada. **historical origin:** Poland. **cultivar:** Agstawne Znnja. Perennial. Cultivar. Cutting.
- PI 556217 **origin:** Canada. **historical origin:** Poland. **cultivar:** Blatoruskajo Seadkaja. Perennial. Cultivar. Cutting.
- PI 556218 **origin:** Canada. **historical origin:** Poland. **cultivar:** Doezi Sibirjoczki. Perennial. Cultivar. Cutting.
- PI 556219 **origin:** Canada. **historical origin:** USSR. **cultivar:** Bogatyr. **pedigree:** Neosypajuscajasja x Goliath. **remarks:** Thin skinned berries of variable size, ripens early August, somewhat resistant to anthracnose and gall mite. Perennial. Cultivar. Cutting.
- PI 556220 **origin:** Canada. **historical origin:** Poland. **cultivar:** Tunnaja. Perennial. Cultivar. Cutting.
- PI 556221 **origin:** Canada. **historical origin:** USSR. **cultivar:** Sopiernik. **pedigree:** Laxton x Bijsk seedling. **remarks:** Notable for hardiness, large fruit and productiveness. Perennial. Cultivar. Cutting.

PI 556205 to 556224-continued

PI 556222 **origin:** Canada. **historical origin:** Poland. **cultivar:** Tadd. Perennial. Cultivar. Cutting.

PI 556223 **origin:** Canada. **historical origin:** Poland. **cultivar:** Hinnaj Sonnyrien. Perennial. Cultivar. Cutting.

PI 556224 **origin:** Canada. **historical origin:** USSR. **cultivar:** Pilot Aleksandr Mamkin. **pedigree:** Golubka x Seedling 10-85. Perennial. Cultivar. Cutting.

PI 556225 to 556227. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Reckin, J., Werbellin Experimental Gardens, Werbellin, Germany. Received March 13, 1990.

PI 556225 **origin:** Germany. **historical origin:** UNCERTAIN. **cultivar:** Lowes Auslese. Perennial. Cultivar. Cutting.

PI 556226 **origin:** Germany. **historical origin:** UNCERTAIN. **cultivar:** Tinker. Perennial. Cultivar. Cutting.

PI 556227 **origin:** Germany. **historical origin:** USSR. **cultivar:** Bogatyr. **pedigree:** Neosypajuscajasja x Goliath. **remarks:** Thin skinned berries of variable size, ripens early August, somewhat resistant to anthracnose and gall mite. Perennial. Cultivar. Cutting.

PI 556228 to 556232. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Vandenburg, A., Agriculture Canada, Vineland Exp. Sta., Vineland, Ontario, Canada. Received March 20, 1990.

PI 556228 **origin:** Canada. **historical origin:** United Kingdom. **cultivar:** Amos Black. **pedigree:** Goliath x Baldwin. **remarks:** This clone is to be propagated for use as a virus indicator. Perennial. Cultivar. Plant.

PI 556229 **origin:** Canada. **historical origin:** United Kingdom. **cultivar:** Baldwin. **other id:** Baldwin's Black. **other id:** Carter's Champion. **remarks:** This clone is to be propagated for use as a virus indicator. Perennial. Cultivar. Plant.

PI 556230 **origin:** Canada. **historical origin:** United Kingdom. **origin institute:** Scottish Crop Research Institute, Invergowrie, Scotland. **cultivar:** Ben Alder. **pedigree:** Ben Lomond x Ben More. **remarks:** Vigorous, easily machine-harvested and has excellent fruit quality suitable for all processing requirements. Perennial. Cultivar. Plant.

PI 556228 to 556232-continued

PI 556231 **origin:** Canada. **historical origin:** United Kingdom.
origin institute: Scottish Crop Research Institute,
Invergowrie, Scotland. **cultivar:** Ben Tirren. Perennial.
Cultivar. Plant.

PI 556232 **origin:** Canada. **historical origin:** United Kingdom.
origin institute: Scottish Crop Research Institute,
Invergowrie, Scotland. **cultivar:** Ben Lomond. Perennial.
Cultivar. Plant.

PI 556233 to 556243. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture
Department, Corvallis, Oregon, United States. Received July 26,
1990.

PI 556233 **origin:** USSR. Perennial. Cultivar. Plant.

PI 556234 **origin:** USSR. **origin institute:** VIR, Experiment Station,
Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar
Bagira. **collected:** July 19, 1990. **remarks:** Fruit sweet,
ripe at collection time. Perennial. Breeding Material.
Seed.

PI 556235 **origin:** USSR. **origin institute:** VIR, Experiment Station,
Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar
Binar. **collected:** July 19, 1990. **remarks:** Parent
cultivar resistant to mites and mildew. Fruit ripe at
collection time. Perennial. Breeding Material. Seed.

PI 556236 **origin:** USSR. **origin institute:** VIR, Experiment Station,
Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar
Lazur. **collected:** July 19, 1990. **remarks:** Parent
cultivar not completely mildew-resistant. Fruit ripe at
collection time. Perennial. Breeding Material. Seed.

PI 556237 **origin:** USSR. **origin institute:** VIR, Experiment Station,
Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar
Leningradskaya Velican. **collected:** July 19, 1990.
remarks: Parent cultivar is very popular in the USSR.
Fruit is very large. Ripe at collection time.
Perennial. Breeding Material. Seed.

PI 556238 **origin:** USSR. **origin institute:** VIR, Experiment Station,
Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar
Lentay. **collected:** July 19, 1990. **remarks:** Parent
cultivar has very large fruit but low yields. Fruit ripe
at collection time. Perennial. Breeding Material.
Seed.

PI 556233 to 556243-continued

- PI 556239 **origin:** USSR. **origin institute:** VIR, Experiment Station, Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar Pilot Aleksandr Mamkin. **collected:** July 19, 1990. **remarks:** Parent cultivar from a breeding program in the USSR Fruit ripe at collection time. Perennial. Breeding Material. Seed.
- PI 556240 **origin:** USSR. **origin institute:** VIR, Experiment Station, Pavlovsky, Russian SFSR. **pedigree:** OP seed of Swedish cultivar Titania. **collected:** July 19, 1990. **remarks:** Parent cultivar is resistant to mites. Fruit ripe at collection time. Perennial. Breeding Material. Seed.
- PI 556241 **origin:** USSR. **origin institute:** VIR, Experiment Station, Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar Veloy. **collected:** July 19, 1990. **remarks:** Very large, very sweet fruit. Ripe at collection. Perennial. Breeding Material. Seed.
- PI 556242 **origin:** USSR. **origin institute:** VIR, Experiment Station, Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar Vera Horuschaya. **collected:** July 19, 1990. **remarks:** Parent is a new Soviet cultivar. Fruit not quite ripe at collection time. Perennial. Breeding Material. Seed.
- PI 556243 **origin:** USSR. **origin institute:** VIR, Experiment Station, Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar Volodnika. **collected:** July 19, 1990. **remarks:** Fruit ripe at collection time. Perennial. Breeding Material. Seed.

PI 556244. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Holloway, P.S., University of Alaska, Fairbanks, Alaska, United States. Received February 11, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. **collected:** August 10, 1990. Perennial. Cultivated. Seed.

PI 556245 to 556246. *Ribes nigrum* L. GROSSULARIACEAE Black Currant

Donated by: Miller, S., Smithfield Experiment Station, Trenton, Ontario, Canada. Received April 23, 1991.

PI 556245 to 556246-continued

PI 556245 **origin:** Canada. **historical origin:** United Kingdom.
origin institute: Univ. Bristol Research Station, Long
Ashton, England. **cultivar:** Malvern Cross. **pedigree:**
Baldwin x Victoria. **other id:** Malvern. **remarks:**
Resembles Baldwin, late season, thick tough skin.
Perennial. Cultivar. Cutting.

PI 556246 **origin:** Canada. **historical origin:** United Kingdom.
origin institute: W. Seabrook & Son, Chalmersford, England.
cultivar: Seabrooks Black. **pedigree:** Probably French
Black OP seedling selection. **remarks:** Leafs out late,
flowers late mid-season. Vigorous, fairly compact,
upright, much branched. Perennial. Cultivar. Cutting.

PI 556247 to 556248. *Ribes nigrum* var. *sibiricum* W. Wolf
GROSSULARIACEAE Black Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture
Department, Corvallis, Oregon, United States. Received July 26,
1990.

PI 556247 **origin:** USSR. **origin institute:** VIR, Experiment Station,
Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar
Beauty of Altay (Altaj Giant?). **collected:** July 19,
1990. **remarks:** Parent cultivar is the standard in the
far east. Mildew resistant. Fruit ripe at collection
time. Perennial. Breeding Material. Seed.

PI 556248 **origin:** USSR. **origin institute:** VIR, Experiment Station,
Pavlovsky, Russian SFSR. **pedigree:** OP seed of cultivar
Brownish of Favorskaya. **collected:** July 19, 1990.
remarks: Parent is an old Far Eastern cultivar. Fruit is
shiny. Ripe at collection time. Perennial. Breeding
Material. Seed.

PI 556249 to 556250. *Ribes niveum* Lindley GROSSULARIACEAE Gooseberry

Donated by: Fredricks, N., Oregon State University, Corvallis,
Oregon, United States. Received July 13, 1987.

PI 556249 **origin:** United States. **origin institute:**
USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis,
Oregon. **pedigree:** Seedling selection from wild Oregon
seedlot CRIB 828. **local name:** Snake River Gooseberry.
Perennial. Breeding Material. Plant.

PI 556249 to 556250-continued

PI 556250 **origin:** United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Oregon seedlot CRIB 829. **local name:** Snake River Gooseberry. Perennial. Breeding Material. Plant.

PI 556251 to 556253. *Ribes niveum* Lindley GROSSULARIACEAE Gooseberry

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received May 1991.

PI 556251 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** May 16, 1991. **locality:** Mile post 11, Little Sheep Highway (Joseph to Imnaha). **latitude:** 45 deg. 30 min. N. **longitude:** 117 deg. W. Perennial. Wild. Plant.

PI 556252 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** May 16, 1991. **locality:** Mile post 11, Little Sheep Highway (Joseph to Imnaha). **latitude:** 45 deg. 30 min. N. **longitude:** 117 deg. W. Perennial. Wild. Plant.

PI 556253 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** May 17, 1991. **locality:** Freeze-out Trailhead, 2.8mi E of the Upper Imnaha Road. **latitude:** 45 deg. 40 min. N. **longitude:** 116 deg. 50 min. W. Perennial. Wild. Plant.

PI 556254. *Ribes odoratum* H. L. Wendl. GROSSULARIACEAE Currant

Donated by: Dayton, R., Soil Conservation Service, Plant Materials Center, Manhattan, Kansas, United States. Received September 27, 1982.

origin: United States. **historical origin:** United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Kansas seedlot CRIB 814. **local name:** Clove Currant, Golden Currant, Buffalo Currant. **collected:** September 20, 1982. **locality:** Wyandotte County. **latitude:** 39 deg. 10 min. N. **longitude:** 94 deg. 50 min. W. Perennial. Breeding Material. Plant.

PI 556255. *Ribes odoratum* H. L. Wendl. GROSSULARIACEAE Ornamental Currant

Donated by: Jaynes, R., Connecticut Experiment Station, New Haven, Connecticut, United States. Received February 01, 1984.

PI 556255-continued

origin: United States. **historical origin:** UNCERTAIN.
cultivar: Pruterberry. **collected:** January 25, 1984.
other id: Puterberry. **other id:** Crandall. Perennial.
Cultivar. Plant.

PI 556256. *Ribes odoratum* H. L. Wendl. GROSSULARIACEAE Ornamental
Currant

Donated by: Schultz, W., Philomath, Oregon, United States. Received
February 12, 1986.

origin: United States. **historical origin:** United States.
cultivar: Crandall. **other id:** Pewterberry. **other id:**
Flowering Currant. **remarks:** Nice ornamental plant,
clove-scented blossoms. Fruit is edible. Tolerates hot
summers. Perennial. Cultivar. Cutting.

PI 556257. *Ribes odoratum* H. L. Wendl. GROSSULARIACEAE Currant

Donated by: Rombough, L., Aurora, Oregon, United States. Received
June 11, 1990.

origin: United States. **local name:** Clove Currant. **other**
id: Crandall. **remarks:** This may be a golden-fruited
clone, possibly cultivar Crandall. Perennial.
Cultivated. Plant.

PI 556258. *Ribes orientale* Desf. GROSSULARIACEAE Currant

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR.
Received February 24, 1987.

origin: USSR. **historical origin:** United States. **origin**
institute: USDA/ARS/NPGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon. **pedigree:** OP seedling selection from
seedlot CRIB 824. Perennial. Breeding Material. Plant.

PI 556259. *Ribes orientale* Desf. GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Dept.
Horticulture, Corvallis, Oregon, United States. Received December
12, 1988.

PI 556259-continued

origin: Pakistan. **pedigree:** Collected from the wild in Pakistan. **collected:** October 10, 1988. **locality:** 8km S of Skardu, 30m from Satpara Lake, on field's edge. **latitude:** 36 deg. 12 min. N. **longitude:** 75 deg. 38 min. E. **elevation:** 2585m. **remarks:** Unique, with robust foliage and fruit. Large. Polyploid? Local people prize the fruit from this shrub. Perennial. Wild. Cutting.

PI 556260 to 556262. *Ribes orientale* Desf. GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received January 12, 1989.

PI 556260 **origin:** Pakistan. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Pakistani seedlot CRIB 837. Perennial. Breeding Material. Plant.

PI 556261 **origin:** Pakistan. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Pakistani seedlot CRIB 838. Perennial. Breeding Material. Plant.

PI 556262 **origin:** Pakistan. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Pakistani seedlot CRIB 839. Perennial. Breeding Material. Plant.

PI 556263. *Ribes oxycanthoides* L. GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 07, 1984.

origin: Canada. **pedigree:** Collected from the wild in Canada. **local name:** Wild Gooseberry, Northern Gooseberry. **collected:** June 17, 1984. **locality:** Red Deer River Valley near Hwy 27. **latitude:** 50 deg. 58 min. N. **longitude:** 110 deg. 00 min. W. **elevation:** 775m. **remarks:** Some variation in thorniness observed and subsequent separation from other species. Perennial. Wild. Cutting.

PI 556264. *Ribes oxyacanthoides* L. GROSSULARIACEAE Gooseberry

Donated by: Devonian Botanical Garden, Edmonton, Alberta, Canada.
Received November 07, 1984.

origin: Canada. **pedigree:** Open pollinated from botanical collection. **local name:** Wild Gooseberry, Northern Gooseberry. **Perennial.** **Cultivated.** **Seed.**

PI 556265. *Ribes oxyacanthoides* L. GROSSULARIACEAE Gooseberry

Donated by: Moon, K., Lead Hill, Arkansas, United States. **Received** February 12, 1988.

origin: United States. **pedigree:** Collected from the wild in Arkansas. **local name:** Wild Gooseberry, Northern Gooseberry. **locality:** Lead Hill Arkansas. **latitude:** 35 deg. N. **longitude:** 92 deg. 30 min. W. **remarks:** Very drought-resistant. **Perennial.** **Wild.** **Cutting.**

PI 556266. *Ribes oxyacanthoides* subsp. *irriguum* (Douglas) Sinnott
GROSSULARIACEAE Gooseberry

Donated by: Chandler, J., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. **Received** April 07, 1983.

origin: United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Idaho seedlot CRIB 812. **Perennial.** **Breeding Material.** **Plant.**

PI 556267 to 556269. *Ribes oxyacanthoides* subsp. *irriguum* (Douglas)
Sinnott GROSSULARIACEAE Gooseberry

Donated by: Fredricks, N., Oregon State University, Corvallis, Oregon, United States. **Received** July 13, 1987.

PI 556267 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Wild Gooseberry, Northern Gooseberry. **collected:** July 1917. **locality:** Near confluence of Wallowa River and Bear Creek at Wallowa. **latitude:** 45 deg. 30 min. N. **longitude:** 117 deg. 35 min. W. **Perennial.** **Wild.** **Seed.**

PI 556268 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Wild Gooseberry, Northern Gooseberry. **collected:** July 1987. **locality:** Slope above SE Wallowa Lake, mixed coniferous woodland. **latitude:** 45 deg. 17 min. N. **longitude:** 117 deg. 12 min. W. **elevation:** 1370m. **Perennial.** **Wild.** **Seed.**

PI 556267 to 556269-continued

PI 556269 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Wild Gooseberry, Northern Gooseberry. **collected:** July 1987. **locality:** Slope above SE Wallowa Lake, mixed coniferous woodland. **latitude:** 45 deg. 17 min. N. **longitude:** 117 deg. 12 min. W. **elevation:** 1370m. Perennial. Wild. Seed.

PI 556270. *Ribes oxyacanthoides* subsp. *irriguum* (Douglas) Sinnott
GROSSULARIACEAE Gooseberry

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received May 1991.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** May 15, 1991. **locality:** Hurricane Creek Campground, 7 mi. S of Enterprise. **latitude:** 45 deg. 25 min. N. **longitude:** 117 deg. 20 min. W. Perennial. Wild. Plant.

PI 556271. *Ribes oxyacanthoides* subsp. *setosum* (Lindley) Sinnott
GROSSULARIACEAE Gooseberry

Donated by: Callan, N., Western Agric. Research Center, Corvallis, Montana, United States. Received April 07, 1983.

origin: United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Idaho seedlot CRIB 810. Perennial. Breeding Material. Plant.

PI 556272 to 556273. *Ribes palczewskii* (Jancz.) Pojark.
GROSSULARIACEAE

Donated by: Koropachunsky, I., Central Siberian Botanical Garden, Novosibirsk, USSR. Received January 1991.

PI 556272 **origin:** USSR. **pedigree:** Open pollinated from botanical collection. **collected:** October 16, 1990. **remarks:** Mother plant collected in Primorye Territory, Lesozavodsky region, floodplain of the Tamga River. Perennial. Cultivated. Seed.

PI 556273 **origin:** USSR. **pedigree:** Open pollinated from botanical collection. **collected:** October 16, 1990. **remarks:** Mother plant collected in Primorye Territory, Spassky region, floodplain of the Karasevka River. Perennial. Cultivated. Seed.

PI 556274. *Ribes pauciflorum* Turcz. ex Pojark. GROSSULARIACEAE
Currant

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR.
Received April 24, 1987.

origin: USSR. **historical origin:** United States. **origin**
institute: USDA/ARS/NGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon. **pedigree:** Seedling selection of OP
seed from botanical collection. Perennial. Breeding
Material. Plant.

PI 556275. *Ribes pauciflorum* Turcz. ex Pojark. GROSSULARIACEAE
Currant

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR.
Received April 24, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical
collection. Perennial. Cultivated. Seed.

PI 556276. *Ribes petraeum* Wulf. GROSSULARIACEAE Red Currant

Donated by: Jaynes, R., Connecticut Experiment Station, New Haven,
Connecticut, United States. Received February 01, 1984.

origin: United States. **historical origin:** UNCERTAIN.
cultivar: Prince Albert. **other id:** Duitse Zure. **other**
id: Hollandische Rote. **other id:** Yerrieres Rouge.
remarks: Very late fruits, large size, plants vigorous
and dense One of the latest cultivars to flower and
fruit. Perennial. Cultivar. Plant.

PI 556277. *Ribes petraeum* Wulf. GROSSULARIACEAE White Currant

Donated by: Kennedy, C.T., Calif. Rare Fruit Growers, San Francisco,
California, United States. Received December 04, 1987.

origin: United States. **historical origin:** Switzerland.
cultivar: Weisse aus Juteborg. **other id:** Weisse
Juterboger. **other id:** White Juteborg. **remarks:** Hardy.
Small clusters of large white berries. Perennial.
Cultivar. Plant.

PI 556278 to 556281. *Ribes petraeum* Wulf. GROSSULARIACEAE Red Currant

Donated by: National Fruit Trials, Brogdale Farm, Faversham, Kent,
England, United Kingdom. Received November 08, 1989.

PI 556278 to 556281-continued

- PI 556278 **origin:** United Kingdom. **historical origin:** France. **cultivar:** Gondouin. **other id:** Red Provence. **remarks:** This variety has been confused in the past with Victoria Plants very vigorous, large, bright red, late berries. Perennial. Cultivar. Cutting.
- PI 556279 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** Kernlose. **other id:** Seedless Red. Perennial. Cultivar. Cutting.
- PI 556280 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** Prince Albert. **other id:** Duitse Zure. **other id:** Hollandische Rote. **other id:** Yerrieres Rouge. **remarks:** Very late fruits, large size, plants vigorous, dense. Perennial. Cultivar. Cutting.
- PI 556281 **origin:** United Kingdom. **historical origin:** Switzerland. **cultivar:** Weisse Aus Juteborg. **other id:** Weisse Juterboger. **other id:** White Juteborg. **remarks:** Hardy. Small clusters of large white berries. Perennial. Cultivar. Cutting.

PI 556282. *Ribes petraeum* var. *atropurpureum* (C. A. Mey.) Jancz.
GROSSULARIACEAE Red Currant

Donated by: Holloway, P.S., University of Alaska, Fairbanks, Alaska, United States. Received February 11, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. **collected:** August 10, 1990. Perennial. Cultivated. Seed.

PI 556283. *Ribes petraeum* var. *carpathicum* (Schultes) C. Schneider
GROSSULARIACEAE Currant

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR. Received April 24, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. Perennial. Cultivated. Seed.

PI 556284. *Ribes punctatum* Ruiz & Pav. GROSSULARIACEAE

Donated by: Cameron, S., Washington State University, W. Wash. Research Station, Vancouver, Washington, United States. Received January 29, 1990.

PI 556284-continued

origin: Chile. **pedigree:** Collected from the wild in Chile. **collected:** January 14, 1990. **other id:** COY-05. **locality:** Zarzaparilla, Coyhalque. **latitude:** 43 deg. S. **longitude:** 74 deg. W. Perennial. Wild. Cutting.

PI 556285. *Ribes quercetorum* Greene GROSSULARIACEAE Gooseberry

Donated by: Amaro, M., Lockeford Plant Materials Center, Pleasanton, California, United States. Received January 13, 1983.

origin: United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild California seedlot CRIB 809. **local name:** Rock Gooseberry. Perennial. Breeding Material. Plant.

PI 556286 to 556289. *Ribes roezlii* Regel GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 15, 1986.

PI 556286 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Sierra Gooseberry. **collected:** August 04, 1986. **locality:** Tennant, NW slope, open young coniferous forest, dry site. **latitude:** 41 deg. 30 min. N. **longitude:** 122 deg. 00 min. W. **elevation:** 1300m. **remarks:** Fruit thorny, green, crop light to moderate, shrub upright. Perennial. Wild. Seed.

PI 556287 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Sierra Gooseberry. **collected:** August 05, 1986. **locality:** Near Lassen Nat'l Park along gravel road near creek. **latitude:** 41 deg. 40 min. N. **longitude:** 121 deg. 35 min. W. **elevation:** 1800m. **remarks:** Moderate fruit crop, thorny gooseberry plant and fruit. Perennial. Wild. Seed.

PI 556288 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Sierra Gooseberry. **collected:** August 06, 1986. **locality:** Lassen Nat'l Forest on highway along Deer Creek. **latitude:** 40 deg. 30 min. N. **longitude:** 121 deg. 30 min. W. **elevation:** 1320m. **remarks:** Few fruit turning red. Perennial. Wild. Seed.

PI 556286 to 556289-continued

PI 556289 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Sierra Gooseberry. **collected:** August 06, 1986. **locality:** Open conifer forest near springs at head of Yellow creek. **latitude:** 40 deg. 25 min. N. **longitude:** 121 deg. 30 min. W. **elevation:** 1820m. **remarks:** Plants small to moderate size, thorny shrub and fruit. Perennial. Wild. Seed.

PI 556290. *Ribes roezlii* Regel GROSSULARIACEAE Gooseberry

Donated by: Pirzio-Biroli, J., Washington Park Arboretum, Seattle, Washington, United States. Received May 03, 1989.

origin: United States. **pedigree:** Collected from the wild in California. **local name:** Sierra Gooseberry. **locality:** Shasta Co., Trinity Mts., Buckhorn summit. **latitude:** 40 deg. 30 min. N. **longitude:** 122 deg. 10 min. W. **elevation:** 970m. Perennial. Wild. Seed.

PI 556291. *Ribes rotundifolium* Michx. GROSSULARIACEAE Gooseberry

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received January 22, 1986.

origin: United States. **pedigree:** Collected from the wild in North Carolina. **local name:** Wild Gooseberry, Smooth Gooseberry. **collected:** October 16, 1985. **locality:** Roy Taylor Forest Overlook on Blue Ridge Pkwy. **latitude:** 35 deg. 30 min. N. **longitude:** 83 deg. W. **elevation:** 187m. Perennial. Wild. Plant.

PI 556292 to 556296. *Ribes rotundifolium* Michx. GROSSULARIACEAE
Gooseberry

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received September 15, 1986.

PI 556292 **origin:** United States. **pedigree:** Collected from the wild in North Carolina. **local name:** Wild Gooseberry, Smooth Gooseberry. **collected:** August 06, 1986. **locality:** Collected from roadside near trail to Clingman's Dome. **latitude:** 35 deg. 30 min. N. **longitude:** 83 deg. 25 min. W. **elevation:** 2065m. **remarks:** Small population sample. Perennial. Wild. Seed.

PI 556292 to 556296-continued

PI 556293 **origin:** United States. **pedigree:** Collected from the wild in North Carolina. **local name:** Wild Gooseberry, Smooth Gooseberry. **collected:** August 06, 1986. **locality:** Along trail from Clingman's Dome parking lot to Andrews Bald. **latitude:** 35 deg. 30 min. N. **longitude:** 83 deg. 25 min. W. **elevation:** 2065m. Perennial. Wild. Seed.

PI 556294 **origin:** United States. **pedigree:** Collected from the wild in North Carolina. **local name:** Wild Gooseberry, Smooth Gooseberry. **collected:** August 06, 1986. **locality:** Haywood-Jackson Overlook, Blue Ridge Parkway. **latitude:** 35 deg. 25 min. N. **longitude:** 83 deg. 05 min. W. **elevation:** 2130m. Perennial. Wild. Seed.

PI 556295 **origin:** United States. **pedigree:** Collected from the wild in North Carolina. **local name:** Wild Gooseberry, Smooth Gooseberry. **collected:** August 06, 1986. **locality:** Watuga Co., 1.2 km beyond NC State Xmas tree research plots. **latitude:** 36 deg. 20 min. N. **longitude:** 81 deg. 40 min. W. **elevation:** 1500m. **remarks:** Mildew on fruit collected. Perennial. Wild. Seed.

PI 556296 **origin:** United States. **pedigree:** Collected from the wild in North Carolina. **local name:** Wild Gooseberry, Smooth Gooseberry. **collected:** August 06, 1986. **locality:** Mitchell Co., Roan Mtn. Gardens. **latitude:** 36 deg. 00 min. N. **longitude:** 82 deg. 05 min. W. **elevation:** 2050m. **remarks:** Flavor pleasant. Perennial. Wild. Seed.

PI 556297. *Ribes rotundifolium* Michx. GROSSULARIACEAE Gooseberry

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR.
Received April 24, 1987.

origin: USSR. **pedigree:** Open-pollinated seed from botanical collection. **local name:** Wild Gooseberry, Smooth Gooseberry. Perennial. Cultivated. Seed.

PI 556298 to 556300. *Ribes rubrum* L. GROSSULARIACEAE Red Currant

Donated by: Lawrence, F.J., USDA/ARS, Oregon State University, Horticulture Department, Corvallis, Oregon, United States. **Received** 1981.

PI 556298 **origin:** United States. **historical origin:** Italy. **cultivar:** Cherry. **pedigree:** Uncertain, perhaps a chance seedling. **other id:** Cerise. **other id:** Macrocarpa. **other id:** Groseille Cerise. **remarks:** Fruit is very large, plants do not sucker, canes have a tendency to go blind. Perennial. Cultivar. Plant.

PI 556298 to 556300-continued

PI 556299 **origin:** United States. **historical origin:** United States.
cultivar: Fay. **pedigree:** Cherry x Victoria. **other id:**
Fay's Prolific. **remarks:** Fruit is very large, uniform,
good for canning. Perennial. Cultivar. Plant.

PI 556300 **origin:** United States. **historical origin:** United States.
origin institute: University of Minnesota, Fruit Breeding
Farm, Excelsior, Minnesota. **cultivar:** Red Lake. **other**
id: Minn. 24 Red Currant. **remarks:** This cultivar is
susceptible to White Pine Blister Rust. Perennial.
Cultivar. Plant.

PI 556301 to 556303. *Ribes rubrum* L. GROSSULARIACEAE Red Currant

Donated by: Jaynes, R., Connecticut Experiment Station, New Haven,
Connecticut, United States. Received February 01, 1984.

PI 556301 **origin:** United States. **historical origin:** Netherlands.
cultivar: Jonkheer Van Tets. **pedigree:** Early-ripening
seedling selection of Fay's Prolific. **remarks:** Ripens
early, Plant mod. vigorous, upright, spurring freely.
Perennial. Cultivar. Plant.

PI 556302 **origin:** United States. **historical origin:** Canada.
cultivar: Stephens No. 9. **remarks:** Flowers early, ripens
midseason, berries large, compact clusters. Perennial.
Cultivar. Plant.

PI 556303 **origin:** United States. **historical origin:** United
Kingdom. **origin institute:** Laxton Brothers, Bedford,
England. **cultivar:** Laxton No. 1. **remarks:** Small
berries, outstanding flavor, small seeded, very heavy
cropper. Perennial. Cultivar. Plant.

PI 556304. *Ribes rubrum* L. GROSSULARIACEAE Red Currant

Donated by: Seibert, T., Forked River, New Jersey, United States.
Received February 08, 1984.

origin: United States. **historical origin:** United
Kingdom. **cultivar:** Raby Castle. **pedigree:** Considered a
pure descendant of *R. rubrum pubescens*. **other id:**
Victoria. **remarks:** Once widely grown in Canada and the
United States under the name Victoria. Perennial.
Cultivar. Plant.

PI 556305. *Ribes rubrum* L. GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received August 02, 1984.

origin: Poland. **pedigree:** Collected from the wild in Poland. **collected:** July 27, 1984. **locality:** On bank of pond at roadside near Pard on Hwy T81, Platsk. **latitude:** 52 deg. N. **longitude:** 20 deg. E. **elevation:** 100m. **remarks:** This clone may be an escaped cultivar. Perennial. Wild. Seed.

PI 556306 to 556307. *Ribes rubrum* L. GROSSULARIACEAE White Currant

Donated by: Parfitt, B.D.K., Brogdale Exp. Sta., Faversham, Kent, England, United Kingdom. Received January 02, 1986.

PI 556306 **origin:** United Kingdom. **historical origin:** France. **cultivar:** White Versailles. **pedigree:** Old French cultivar of unknown pedigree. **other id:** Blanche de Versailles. **other id:** Versaillaise Blanche. **other id:** Weisse Versaill. **remarks:** Recommended for warm regions. Susceptible to *Pseudopeziza ribis*. Perennial. Cultivar. Cutting.

PI 556307 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** Rosa Hollandische. **locality:** Europe. Perennial. Cultivar. Cutting.

PI 556308 to 556310. *Ribes rubrum* L. GROSSULARIACEAE Red Currant

Donated by: Kennedy, C.T., Calif. Rare Fruit Growers, San Francisco, California, United States. Received December 04, 1987.

PI 556308 **origin:** United States. **historical origin:** France. **cultivar:** Versailles. **pedigree:** Said to be a seedling selection of Cherry. **other id:** La Versaillaise. **other id:** Red Versailles. **remarks:** Taxonomic placing of this cv is uncertain. Very difficult to distinguish from Cherry and other currants of its group. Perennial. Cultivar. Plant.

PI 556309 **origin:** United States. **historical origin:** France. **cultivar:** Gloire des Sablons. **pedigree:** Seedling selection of Champagne. **remarks:** Upright, vigorous. Fruit small, white splashed with red. Perennial. Cultivar. Plant.

PI 556308 to 556310-continued

PI 556310 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: White Grape. **other id:** Imperial Yellow. **other id:** White Antwerp. **remarks:** This cultivar has the largest cluster and berry of all white currants. Perennial. Cultivar. Plant.

PI 556311 to 556312. *Ribes rubrum* L. GROSSULARIACEAE White Currant

Donated by: Larsson, Gunny, Swedish University of Agric. Sci., Umea, Sweden. Received November 10, 1988.

PI 556311 **origin:** Sweden. **origin institute:** Experimental Division of N. Swedish, Horticulture, Brinkvagen II S-907 48. **cultivar:** Bianca. **pedigree:** Red currant x White currant, parents unspecified. **remarks:** White fruited cultivar. This is a sister selection of cultivar Rubina. Perennial. Cultivar. Plant.

PI 556312 **origin:** Sweden. **origin institute:** Northern Dist. Hort. Res. Sta., Box 5097 S-900, Brinkvagen II. **cultivar:** Rubina. **pedigree:** Red Lake x Red Dutch. **remarks:** Can handle conditions in Northern Sweden. Perennial. Cultivar. Plant.

PI 556313 to 556314. *Ribes rubrum* L. GROSSULARIACEAE White Currant

Donated by: Eppler, A.I., Washington Park Arboretum, Seattle, Washington, United States. Received November 28, 1988.

PI 556313 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** White Dutch. **other id:** White Chrystal. **other id:** Pearl White. **other id:** Blanche de Holland. **locality:** Europe. **remarks:** Fruits are darker than other white-fruited cultivars, very early and very sweet. Perennial. Cultivar. Cutting.

PI 556314 **origin:** United States. **historical origin:** Belgium. **cultivar:** White Pearl. **remarks:** White-fruited, moderately vigorous, upright spreading, unproductive, midseason. Perennial. Cultivar. Cutting.

PI 556315 to 556316. *Ribes rubrum* L. GROSSULARIACEAE Pink Currant

Donated by: Reckin, J., Werbellin Experimental Gardens, Werbellin, Germany. Received March 29, 1989.

PI 556315 **origin:** Germany. **cultivar:** Tinka. Perennial. Cultivar. Cutting.

PI 556315 to 556316-continued

PI 556316 **origin:** Germany. **historical origin:** France. **cultivar:** White Versailles. **other id:** Weisse Versailles. **other id:** Blanche de Versailles. **other id:** Versaillaise Bl.. **remarks:** Recommended for warm regions. Susceptible to Pseudopeziza ribis. Perennial. Cultivar. Cutting.

PI 556317 to 556318. Ribes rubrum L. GROSSULARIACEAE Red Currant

Donated by: Reckin, J., Werbellin Experimental Gardens, Werbellin, Germany. Received March 13, 1990.

PI 556317 **origin:** Germany. **cultivar:** Rote Preisbeere. Perennial. Cultivar. Cutting.

PI 556318 **origin:** Germany. **historical origin:** France. **cultivar:** White Versailles. **other id:** Weisse Versailles. **other id:** Blanche de Versailles. **other id:** Versaillaise Bl.. **remarks:** Berries large, slightly darker than White Grape. Perennial. Cultivar. Cutting.

PI 556319 to 556320. Ribes rubrum L. GROSSULARIACEAE Currant

Donated by: White, George, USDA/ARS/PGGI, BARC-West, Beltsville, Maryland, United States. Received September 25, 1989.

PI 556319 **origin:** USSR. **pedigree:** Collected from the wild in the Soviet Union. **collected:** July 15, 1989. **locality:** Lunch Site. Perennial. Wild. Seed.

PI 556320 **origin:** USSR. **pedigree:** Collected from the wild in the Soviet Union. **collected:** July 16, 1989. **locality:** Lunch Site. Perennial. Wild. Seed.

PI 556321 to 556365. Ribes rubrum L. GROSSULARIACEAE Red Currant

Donated by: National Fruit Trials, Brogdale Farm, Faversham, Kent, England, United Kingdom. Received November 08, 1989.

PI 556321 **origin:** United Kingdom. **historical origin:** France. **cultivar:** Chenonceau. **pedigree:** This is a form of Versailles. **remarks:** Has shorter bunches and ripens later than Versailles. Perennial. Cultivar. Cutting.

PI 556322 **origin:** United Kingdom. **historical origin:** Italy. **cultivar:** Cherry. **pedigree:** Uncertain, perhaps a chance seedling. **other id:** Cerise. **other id:** Macrocarpa. **other id:** Groseille Cerise. **remarks:** Fruit is very large, not uniform, canes tend to go 'blind'. Perennial. Cultivar. Cutting.

PI 556321 to 556365-continued

- PI 556323 **origin:** United Kingdom. **historical origin:** France.
cultivar: Cocagne MID4. Perennial. Cultivar. Cutting.
- PI 556324 **origin:** United Kingdom. **cultivar:** Comet. **other id:**
Possibly Fay. **remarks:** Thought by some to be identical
with Versailles, Fay by others. Perennial. Cultivar.
Cutting.
- PI 556325 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Fay's New Prolific. **pedigree:** Probably a
seedling selection of Fay. **remarks:** This may represent
an improvement on the cv Fay, or may perhaps be Fay. No
pedigree information provided on receipt. Perennial.
Cultivar. Cutting.
- PI 556326 **origin:** United Kingdom. **cultivar:** Fillbasket.
Perennial. Cultivar. Cutting.
- PI 556327 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Halle's Large Red Dutch. Perennial. Cultivar.
Cutting.
- PI 556328 **origin:** United Kingdom. **historical origin:** Netherlands.
cultivar: Jonkheer Van Tets. **pedigree:** Early-ripening
seedling selection of Fay's Prolific. **remarks:** Ripens
early, plant moderately vigorous, upright. Perennial.
Cultivar. Cutting.
- PI 556329 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Karlstein Red. Perennial. Cultivar. Cutting.
- PI 556330 **origin:** United Kingdom. **historical origin:** United
Kingdom. **cultivar:** Lack's Monster. Perennial.
Cultivar. Cutting.
- PI 556331 **origin:** United Kingdom. **historical origin:** United
Kingdom. **cultivar:** Lack's Monster No. 2. Perennial.
Cultivar. Cutting.
- PI 556332 **origin:** United Kingdom. **origin institute:** Laxton
Brothers, Bedford, England. **cultivar:** Laxton No. 1.
remarks: Small berries, outstanding flavor, small seeded,
very heavy cropper. Perennial. Cultivar. Cutting.
- PI 556333 **origin:** United Kingdom. **origin institute:** Laxton
Brothers, Bedford, England. **cultivar:** Laxton's
Perfection. Perennial. Cultivar. Cutting.
- PI 556334 **origin:** United Kingdom. **cultivar:** Littlecroft Beauty.
other id: Littlecroft. Perennial. Cultivar. Cutting.

PI 556321 to 556365-continued

- PI 556335 **origin:** United Kingdom. **historical origin:** United Kingdom. **cultivar:** Moore's Ruby. Perennial. Cultivar. Cutting.
- PI 556336 **origin:** United Kingdom. **historical origin:** United States. **cultivar:** North Star. **pedigree:** Chance seedling. **remarks:** This cv was purchased and introduced by the Jewell Nursery Company, Lake City, Minnesota. Perennial. Cultivar. Cutting.
- PI 556337 **origin:** United Kingdom. **cultivar:** Raby Castle. **pedigree:** Considered a pure descendant of R. rubrum pubescens. **other id:** Victoria. **remarks:** Once widely grown in Canada and the US under the name Victoria. Perennial. Cultivar. Cutting.
- PI 556338 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** Red Cherry. Perennial. Cultivar. Cutting.
- PI 556339 **origin:** United Kingdom. **historical origin:** United States. **origin institute:** University of Minnesota, Fruit Breeding Farm, Excelsior, Minnesota. **cultivar:** Red Lake. **other id:** Minn. 24 Red Currant. **remarks:** Fruit clusters long, well-filled berries, vigorous. Perennial. Cultivar. Cutting.
- PI 556340 **origin:** United Kingdom. **origin institute:** Ministry of Agriculture, Brogdale Farm, Kent, England. **cultivar:** Redstart (B608/3). Perennial. Cultivar. Cutting.
- PI 556341 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** Rotet. Perennial. Cultivar. Cutting.
- PI 556342 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** Rouge Hollande. **other id:** Red Dutch. Perennial. Cultivar. Cutting.
- PI 556343 **origin:** United Kingdom. **historical origin:** UNCERTAIN. **cultivar:** St. Anna Korfke. Perennial. Cultivar. Cutting.
- PI 556344 **origin:** United Kingdom. **historical origin:** United Kingdom. **cultivar:** Scotch. Perennial. Cultivar. Cutting.
- PI 556345 **origin:** United Kingdom. **historical origin:** Canada. **cultivar:** Stephens. Perennial. Cultivar. Cutting.
- PI 556346 **origin:** United Kingdom. **cultivar:** Wilson's Long Bunch. **other id:** Victoria. Perennial. Cultivar. Cutting.

PI 556321 to 556365-continued

- PI 556347 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Reid 1 (seedling). Perennial. Cultivar.
Cutting.
- PI 556348 **origin:** United Kingdom. **historical origin:** France.
cultivar: Bar-le-Duc. **remarks:** Plants vigorous, fruits
large, white, translucent with very few seeds, sweet.
Perennial. Cultivar. Cutting.
- PI 556349 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Grosse Blanche. Perennial. Cultivar.
Cutting.
- PI 556350 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Halle's Long Bunch White. Perennial.
Cultivar. Cutting.
- PI 556351 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Hollande Blanche. **other id:** White Dutch.
Perennial. Cultivar. Cutting.
- PI 556352 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Kromhout. Perennial. Cultivar. Cutting.
- PI 556353 **origin:** United Kingdom. **cultivar:** Swan Lake. Perennial.
Cultivar. Cutting.
- PI 556354 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Verriere Blanche. Perennial. Cultivar.
Cutting.
- PI 556355 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: White Antagonist. Perennial. Cultivar.
Cutting.
- PI 556356 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: White Champion. Perennial. Cultivar.
Cutting.
- PI 556357 **origin:** United Kingdom. **cultivar:** White Cherry.
remarks: Very productive, berries large, pale yellow,
early. Perennial. Cultivar. Cutting.
- PI 556358 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: White Dutch. **other id:** White Clinton. **other**
id: White Antwerp. **locality:** Europe. **remarks:** Fruit is
darker than other white-fruited cultivars, very early and
very sweet. Perennial. Cultivar. Cutting.

PI 556321 to 556365-continued

- PI 556359 **origin:** United Kingdom. **historical origin:** France.
cultivar: White Transparent. **pedigree:** Said to be a
White Grape seedling. **remarks:** Resembles White Grape
very closely, is often confused with that cultivar.
Perennial. Cultivar. Cutting.
- PI 556360 **origin:** United Kingdom. **historical origin:** France.
cultivar: White Versailles. **other id:** Weisse Versailles.
other id: Blanche de Versailles. **other id:** Versaillaise
Bl.. **remarks:** Berries large, slightly darker than White
Grape. Perennial. Cultivar. Cutting.
- PI 556361 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Couleur de Chair. Perennial. Cultivar.
Cutting.
- PI 556362 **origin:** United Kingdom. **historical origin:** France.
cultivar: Gloire des Sablons. **pedigree:** Seedling
selection of Champagne. **remarks:** Upright, vigorous.
Fruit small, white splashed with red. Perennial.
Cultivar. Cutting.
- PI 556363 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Hollande Rose. Perennial. Cultivar. Cutting.
- PI 556364 **origin:** United Kingdom. **historical origin:** United
States. **cultivar:** October Red. **other id:** October
Currant. Perennial. Cultivar. Cutting.
- PI 556365 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Rosa Hollandische. **locality:** Europe.
Perennial. Cultivar. Cutting.

PI 556366. *Ribes rubrum* L. GROSSULARIACEAE Red Currant

Donated by: Widrlechner, M.P., USDA/ARS/NC-7, Iowa State University,
Ames, Iowa, United States. Received July 23, 1990.

origin: Czechoslovakia. **other id:** Ames 4346. **source:**
NC-7. **group:** Ames. Perennial. Seed.

PI 556367. *Ribes rubrum* L. GROSSULARIACEAE Red Currant

Donated by: Holloway, P.S., University of Alaska, Fairbanks, Alaska,
United States. Received February 11, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical
collection. **collected:** August 10, 1990. Perennial.
Cultivated. Seed.

PI 556368 to 556369. *Ribes rubrum* L. GROSSULARIACEAE Red Currant

Donated by: Miller, S., Smithfield Experiment Station, Trenton, Ontario, Canada. Received April 23, 1991.

PI 556368 **origin:** Canada. **historical origin:** United States.
origin institute: Private breeder, Brighton, New York.
cultivar: Diploma. **remarks:** The light red fruits are more transparent than those of other red currants, fruits are juicy and good for jellies. Perennial. Cultivar. Cutting.

PI 556369 **origin:** Canada. **historical origin:** UNCERTAIN. **cultivar:** Pomona. Perennial. Cultivar. Cutting.

PI 556370. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Westwood, M.N., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 26, 1983.

origin: United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Oregon seedlot CRIB 808. **local name:** Red Flowering Currant, Blood Currant. **other id:** Ames 3008. Perennial. Breeding Material. Plant.

PI 556371. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 20, 1983.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Red Flowering Currant, Blood Currant. **collected:** July 20, 1983. **other id:** Ames 3010. **locality:** In a woodland off Terra Circle, near Corvallis. **latitude:** 44 deg. 35 min. N. **longitude:** 123 deg. 20 min. W. **remarks:** Composite sample from three plants. Perennial. Wild. Seed.

PI 556372. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Westwood, M.N., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 05, 1983.

PI 556372-continued

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Red Flowering Currant, Blood Currant. **collected:** September 05, 1983. **other id:** Ames 3009. **locality:** Near Sweet Home along Fern Ridge Road. **latitude:** 44 deg. 20 min. N. **longitude:** 122 deg. 25 min. W. **elevation:** 300m. Perennial. Wild. Seed.

PI 556373. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 07, 1984.

origin: Canada. **pedigree:** Collected from the wild in Alberta. **collected:** July 01, 1984. **locality:** Crowsnest Pass, near Island Lake campground. **latitude:** 48 deg. 50 min. N. **longitude:** 116 deg. 30 min. W. **elevation:** 1380m. **remarks:** Plant size was probably reduced by elements and competition. Perennial. Wild. Plant.

PI 556374 to 556375. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received August 10, 1985.

PI 556374 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Red Flowering Currant, Blood Currant. **collected:** July 23, 1985. **other id:** Ames 7463. **locality:** Elk Creek, Siskyou National Forest. **latitude:** 46 deg. 00 min. N. **longitude:** 123 deg. 10 min. W. **elevation:** 170m. **remarks:** Small fruit population sample, 4 clones. Perennial. Wild. Seed.

PI 556375 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **local name:** Red Flowering Currant, Blood Currant. **collected:** July 23, 1985. **other id:** Ames 7464. **locality:** Siuslaw National Forest. **latitude:** 44 deg. 10 min. N. **longitude:** 123 deg. 50 min. W. **elevation:** 250m. **remarks:** Small fruit population sample. Perennial. Wild. Seed.

PI 556376 to 556379. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 15, 1986.

PI 556376 to 556379-continued

- PI 556376 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Red Flowering Currant, Blood Currant. **collected:** August 05, 1986. **locality:** Near Lassen Nat'l Park along gravel road near creek. **latitude:** 41 deg. 40 min. N. **longitude:** 121 deg. 35 min. W. **elevation:** 1800m. **remarks:** Only two bluish, elongate fruit found. Perennial. Wild. Seed.
- PI 556377 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Red Flowering Currant, Blood Currant. **collected:** August 06, 1986. **locality:** Lassen Nat'l Forest on highway along Deer Creek. **latitude:** 40 deg. 30 min. N. **longitude:** 121 deg. 30 min. W. **elevation:** 1320m. **remarks:** Shrub to 1m, light crop. Perennial. Wild. Seed.
- PI 556378 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Red Flowering Currant, Blood Currant. **collected:** August 08, 1986. **locality:** Plumas Nat'l Forest, along Coldwater Creek. **latitude:** 39 deg. 50 min. N. **longitude:** 121 deg. 35 min. W. **elevation:** 1470m. **remarks:** Fruit sample. Perennial. Wild. Seed.
- PI 556379 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Red Flowering Currant, Blood Currant. **collected:** August 06, 1986. **locality:** Plumas Nat'l Forest, along Coldwater Creek. **latitude:** 39 deg. 50 min. N. **longitude:** 121 deg. 35 min. W. **elevation:** 1470m. **remarks:** Fruit sample. Perennial. Wild. Seed.

PI 556380. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Berry Botanic Garden, Portland, Oregon, United States.
Received December 23, 1987.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Red Flowering Currant, Blood Currant. **locality:** Columbia River Gorge. **latitude:** 45 deg. 45 min. N. **longitude:** 122 deg. W min.. Perennial. Wild. Seed.

PI 556381. *Ribes sanguineum* Pursh GROSSULARIACEAE Ornamental Currant

Donated by: Pirzio-Biroli, J., Washington Park Arboretum, Seattle, Washington, United States. **Received** June 16, 1989.

origin: United States. **historical origin:** UNCERTAIN.
cultivar: Henry Henneman. **remarks:** White-flowered cultivar. Perennial. Cultivar. Plant.

PI 556382. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Roche-Blake, J., USDA Forest Service, Coeur d'Alene, Idaho, United States. Received August 31, 1989.

origin: United States. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Idaho seedlot CRIB 844. **local name:** Red Flowering Currant, Blood Currant. Perennial. Breeding Material. Plant.

PI 556383 to 556386. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Whitman, L., Salem, Oregon, United States. Received March 01, 1991.

PI 556383 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Hanneman's White. **local name:** Red flowering Currant, Blood Currant. Perennial. Cultivar. Cutting.

PI 556384 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Pokey's Pink. **local name:** Red Flowering Currant, Blood Currant. Perennial. Cultivar. Cutting.

PI 556385 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Elk River. **local name:** Red Flowering Currant, Blood Currant. Perennial. Cultivar. Cutting.

PI 556386 **origin:** United States. **historical origin:** United States.
cultivar: King Edward VII. **pedigree:** Selection from native Californian plant material. **local name:** Red Flowering Currant, Blood Currant. Perennial. Cultivar. Cutting.

PI 556387. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Forest Farm Nursery, Williams, Oregon, United States. Received May 21, 1991.

origin: United States. **historical origin:** UNCERTAIN.
cultivar: Pulborough. **local name:** Red Flowering Currant, Blood Currant. **remarks:** Deep red flowering cultivar. Perennial. Cultivar. Plant.

PI 556388 to 556389. *Ribes sanguineum* Pursh GROSSULARIACEAE Currant

Donated by: Hummer, K.E., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received May 25, 1991.

PI 556388 to 556389-continued

PI 556388 **origin:** United States. **cultivar:** Claremont. **pedigree:** Selection from native Californian plant material. **local name:** Red Flowering Currant, Blood Currant. Perennial. Cultivar. Plant.

PI 556389 **origin:** United States. **cultivar:** King Edward VII. **pedigree:** Selection from native Californian plant material. **local name:** Red Flowering Currant, Blood Currant. Perennial. Cultivar. Plant.

PI 556390. Ribes sp. GROSSULARIACEAE Gooseberry

Donated by: Chandler, J., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 07, 1983.

origin: United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Montana seedlot CRIB 811. Perennial. Breeding Material. Plant.

PI 556391. Ribes sp. GROSSULARIACEAE Gooseberry

Donated by: Callan, N., Western Agric. Research Center, Corvallis, Montana, United States. Received April 07, 1983.

origin: United States. **pedigree:** Collected from the wild in Montana. **collected:** September 17, 1982. **locality:** Little Rock Creek Lake. **latitude:** 47 deg. N. **longitude:** 114 deg. W. **remarks:** Very large, late fruits, plants vigorous, dense and suckering. Perennial. Wild. Seed.

PI 556392. Ribes sp. GROSSULARIACEAE

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 07, 1983.

origin: United States. **pedigree:** Collected from the wild in Wyoming. **collected:** 1983. **locality:** Grand Teton Nat'l Park. **latitude:** 43 deg. 50 min. N. **longitude:** 110 deg. 50 min. W. Perennial. Wild. Plant.

PI 556393. Ribes sp. GROSSULARIACEAE Gooseberry

Donated by: Young, G., Lockford Plant Materials Center, Pleasanton, California, United States. Received August 11, 1982.

PI 556393-continued

origin: United States. **pedigree:** Collected from the wild in California. **collected:** May 13, 1965. **locality:** Kern County, Keene. **latitude:** 35 deg. 35 min. N. **longitude:** 118 deg. 20 min. E. **remarks:** Originally received as R. quercetorum This may be a seedling selection of CRIB 47, no info. Perennial. Wild. Plant.

PI- 556394. Ribes sp. GROSSULARIACEAE

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 20, 1983.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** July 05, 1983. **locality:** John Day Fossil Beds Nat'l Monument. **latitude:** 44 deg. 30 min. N. **longitude:** 120 deg. W. Perennial. Wild. Seed.

PI 556395 to 556396. Ribes sp. GROSSULARIACEAE Gooseberry

Donated by: Widrlechner, M., USDA/ARS/NC-7, Iowa State University, Ames, Iowa, United States. Received April 26, 1984.

PI 556395 **origin:** United States. **pedigree:** Collected from the wild in Missouri. **collected:** October 14, 1959. **locality:** Norwood. **latitude:** 37 deg. 02 min. N. **longitude:** 92 deg. 25 min. W. Perennial. Wild. Seed.

PI 556396 **origin:** United States. **pedigree:** Collected from the wild in Missouri. **collected:** July 02, 1959. **locality:** Sparta. **latitude:** 36 deg. 30 min. N. **longitude:** 93 deg. 30 min. W. Perennial. Wild. Seed.

PI 556397 to 556398. Ribes sp. GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 07, 1984.

PI 556397 **origin:** United States. **pedigree:** Collected from the wild in Washington. **collected:** July 02, 1984. **locality:** Granite Lake rest area Spokane. **latitude:** 47 deg. 45 min. N. **longitude:** 117 deg. 30 min. W. **remarks:** Red fruited, smooth stemmed shrub. Perennial. Wild. Plant.

PI 556398 **origin:** United States. **pedigree:** Collected from the wild in Idaho. **collected:** July 02, 1984. **locality:** Boundary Co., Naples. **latitude:** 48 deg. 40 min. N. **longitude:** 116 deg. 40 min. W. **remarks:** Deciduous shrub to 1m. Perennial. Wild. Plant.

PI 556399 to 556401. *Ribes* sp. GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 10, 1984.

PI 556399 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** August 23, 1984. **locality:** Rogue River Nat'l Forest, Jackson Co. **latitude:** 42 deg. 30 min. N. **longitude:** 123 deg. 30 min. W. **elevation:** 1500m. **remarks:** Small population sample Red fruit in small clusters. Perennial. Wild. Seed.

PI 556400 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** August 25, 1984. **locality:** Deschutes Co., Crescent. **latitude:** 43 deg. 00 min. N. **longitude:** 122 deg. 30 min. W. **elevation:** 1420m. **remarks:** Fruit few and small, color variable from red to orange. Perennial. Wild. Seed.

PI 556401 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** August 25, 1984. **locality:** Collier State Park, Klamath Falls. **latitude:** 43 deg. 00 min. N. **longitude:** 122 deg. 30 min. W. **elevation:** 1360m. **remarks:** Fruit variable in number, size and color. Perennial. Wild. Seed.

PI 556402. *Ribes* sp. GROSSULARIACEAE

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 01, 1985.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** June 27, 1985. **locality:** 6.4km from Ochoco pass near border of Ochoco Natl. Forest. **latitude:** 44 deg. 20 min. N. **longitude:** 120 deg. 30 min. W. **remarks:** Red fruited. Perennial. Wild. Seed.

PI 556403. *Ribes* sp. GROSSULARIACEAE Currant

Donated by: Ballington, J.R., North Carolina State Univ., Horticulture Department, Raleigh, North Carolina, United States. Received August 10, 1985.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** July 25, 1985. **locality:** Siskyou National Forest, Oregon. **latitude:** 42 deg. 10 min. N. **longitude:** 123 deg. 20 min. W. **elevation:** 1300m. **remarks:** Herbarium specimen only. Perennial. Wild. Cutting.

PI 556404 to 556407. Ribes sp. GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 15, 1986.

PI 556404 **origin:** United States. **pedigree:** Collected from the wild in California. **collected:** August 04, 1986. **locality:** Along Antelope Creek Road south of Haight Mountain. **latitude:** 41 deg. 25 min. N. **longitude:** 121 deg. 55 min. W. **remarks:** Thorny spreading shrub, crop moderate to heavy, thorny fruit. Perennial. Wild. Seed.

PI 556405 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Californian seedlot. Perennial. Breeding Material. Plant.

PI 556406 **origin:** United States. **pedigree:** Collected from the wild in California. **collected:** August 05, 1986. **locality:** Shasta Nat'l Forest, Big Sand Flat. **latitude:** 41 deg. 15 min. N. **longitude:** 121 deg. 50 min. W. **elevation:** 1250m. **remarks:** Shrub to 1.5m, crop light. Perennial. Wild. Seed.

PI 556407 **origin:** United States. **pedigree:** Collected from the wild in California. **collected:** August 06, 1986. **locality:** Plumas Nat'l Forest, dry springs area at edge of large meadow. **latitude:** 39 deg. 40 min. N. **longitude:** 121 deg. 00 min. W. **elevation:** 1770m. **remarks:** Typical thorny plant and fruit. Perennial. Wild. Seed.

PI 556408. Ribes sp. GROSSULARIACEAE Red Currant

Donated by: Cacciotti, R., Cranston, Rhode Island, United States. Received October 08, 1988.

origin: United States. **historical origin:** UNCERTAIN.
cultivar: Masons. Perennial. Cultivar. Plant.

PI 556409. Ribes sp. GROSSULARIACEAE

Donated by: Eppler, A.I., Washington Park Arboretum, Seattle, Washington, United States. Received November 28, 1988.

origin: United States. **historical origin:** UNCERTAIN.
cultivar: Mopsy. Perennial. Cultivar. Plant.

PI 556410. Ribes sp. GROSSULARIACEAE Currant

Donated by: White, George, USDA/ARS/PGGI, BARC-West, Beltsville, Maryland, United States. Received March 15, 1989.

origin: Switzerland. **pedigree:** Collected from private garden in Switzerland. **collected:** August 1988. **remarks:** Received to identify cuttings which died in quarantine. Perennial. Cultivated. Seed.

PI 556411 to 556413. Ribes sp. GROSSULARIACEAE Currant

Donated by: Reckin, J., Werbellin Experimental Gardens, Werbellin, Germany. Received March 29, 1989.

PI 556411 **origin:** Germany. **cultivar:** Vierlander. Perennial. Cultivar. Cutting.

PI 556412 **origin:** UNCERTAIN. **cultivar:** Rote Spatlese. **other id:** Guoseille Raisin. **other id:** Industria. **other id:** Macherauch. **remarks:** Avoids late frost damage, a regular and heavy cropper. Perennial. Cultivar. Cutting.

PI 556413 **origin:** Germany. **historical origin:** UNCERTAIN. **cultivar:** Bojaty. Perennial. Cultivar. Cutting.

PI 556414 to 556417. Ribes sp. GROSSULARIACEAE Gooseberry

Donated by: Luby, J.J., University of Minnesota, St. Paul, Minnesota, United States. Received August 10, 1989.

PI 556414 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild South Dakota seedlot CRIB 841. Perennial. Breeding Material. Plant.

PI 556415 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild South Dakota seedlot CRIB 842. Perennial. Breeding Material. Plant.

PI 556416 **origin:** United States. **pedigree:** Collected from the wild in South Dakota. **collected:** 1989. **locality:** Black Hills Nat'l Forest, Palmer Creek. **latitude:** 43 deg. 45 min. N. **longitude:** 103 deg. 30 min. W. **elevation:** 1400m. **remarks:** Black Currant (?). Perennial. Wild. Seed.

PI 556414 to 556417-continued

PI 556417 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild South Dakota seedlot CRIB 843. Perennial. Breeding Material. Plant.

PI 556418 to 556421. *Ribes* sp. GROSSULARIACEAE

Donated by: White, George, USDA/ARS/PGGI, BARC-West, Beltsville, Maryland, United States. Received September 25, 1989.

PI 556418 **origin:** USSR. **pedigree:** Open pollinated from botanical collection. **collected:** July 12, 1989. Perennial. Cultivated. Seed.

PI 556419 **origin:** USSR. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from OP seedlot CRIB 846. Perennial. Breeding Material. Plant.

PI 556420 **origin:** USSR. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Soviet Union seedlot CRIB 847. Perennial. Breeding Material. Plant.

PI 556421 **origin:** USSR. **pedigree:** Collected from the wild in the Soviet Union. **collected:** July 16, 1989. **locality:** Lunch Site. Perennial. Wild. Seed.

PI 556422 to 556424. *Ribes* sp. GROSSULARIACEAE

Donated by: Cameron, S., Washington State University, W. Wash. Research Station, Vancouver, Washington, United States. Received January 29, 1990.

PI 556422 **origin:** Chile. **pedigree:** Collected from the wild in Chile. **collected:** January 02, 1990. **other id:** TDC-04X. **locality:** Termas de Chilan, 20m above a pool. **latitude:** 36 deg. 40 min. S. **longitude:** 72 deg. 10 min. W. Perennial. Wild. Cutting.

PI 556423 **origin:** Chile. **pedigree:** Collected from the wild in Chile. **collected:** January 15, 1990. **other id:** COY-14. **locality:** Coyhalque. **latitude:** 43 deg. S. **longitude:** 74 deg. W. Perennial. Wild. Cutting.

PI 556422 to 556424-continued

PI 556424 **origin:** Chile. **pedigree:** Collected from the wild in Chile. **collected:** January 01, 1990. **other id:** TDC-03. **locality:** Termas de Chilan, Shangri-La. **latitude:** 36 deg. 40 min. S. **longitude:** 72 deg. 10 min. W. Perennial. Wild. Cutting.

PI 556425. Ribes sp. GROSSULARIACEAE

Donated by: Burke, M.J., Oregon State University, Corvallis, Oregon, United States. Received February 16, 1990.

origin: Mexico. **pedigree:** Collected from the wild in Mexico. **collected:** January 01, 1990. **locality:** Tlalacas, north face of Popocatepetl. **latitude:** 19 deg. 10 min. N. **longitude:** 98 deg. 40 min. W. **elevation:** 3960m. **remarks:** Healthy, 3m tall, probably experiences 200 freezes per year. Perennial. Wild. Cutting.

PI 556426. Ribes sp. GROSSULARIACEAE

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR. Received April 24, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. Perennial. Cultivated. Seed.

PI 556427. Ribes sp. GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received July 26, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. **collected:** July 09, 1990. **remarks:** One plant in botanical garden, with only 2 fruit. Botanist indicated that the name is R. biflora, but id questionable. Perennial. Cultivated. Seed.

PI 556428. Ribes sp. GROSSULARIACEAE

Donated by: Luby, J.J., University of Minnesota, St. Paul, Minnesota, United States. Received August 24, 1989.

PI 556428-continued

origin: United States. **pedigree:** Collected from the wild in Idaho. **collected:** 1989. **locality:** Bitterroot Nat'l Forest, Hell's Half Acre Mountain, old burn. **latitude:** 45 deg. 50 min. N. **longitude:** 115 deg. 15 min. W. **elevation:** 2440m. **remarks:** Originally received as *Vaccinium* sp. (CVAC 679). Perennial. Wild. Seed.

PI 556429. *Ribes* sp. GROSSULARIACEAE

Donated by: Holloway, P.S., University of Alaska, Fairbanks, Alaska, United States. Received February 11, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. **collected:** August 10, 1990. Perennial. Cultivated. Seed.

PI 556430 to 556431. *Ribes* sp. GROSSULARIACEAE

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received May 1991.

PI 556430 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** May 16, 1991. **locality:** Hat Point Road, above Imnaha. **latitude:** 45 deg. 35 min. N. **longitude:** 116 deg. 50 min. W. Perennial. Wild. Plant.

PI 556431 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** May 18, 1991. **locality:** 10.2mi W of Elgin on the Elgin to Tollgate Road. **latitude:** 45 deg. 35 min. N. **longitude:** 118 deg. W. Perennial. Wild. Plant.

PI 556432. *Ribes* sp. GROSSULARIACEAE

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received July 18, 1991.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** July 1991. **locality:** Face and foot of sheer cliffs SW of Silver Lake. **elevation:** 2467m. **remarks:** Trailing shrub rooting at shoot tips, mixed conifer forest in assoc. w/*Cercocarpus* and *Holodiscus*. Perennial. Wild. Plant.

PI 556433. *Ribes* sp. GROSSULARIACEAE Gooseberry

Donated by: Hummer, K.E., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received July 25, 1991.

origin: United States. **pedigree:** Collected from the wild in Pennsylvania. **collected:** July 23, 1991. **locality:** Bear Meadows, half way down the hill near the bog site. Perennial. Wild. Cutting.

PI 556434. *Ribes speciosum* Pursh GROSSULARIACEAE Gooseberry

Donated by: Witt, J.A., Washington Park Arboretum, Seattle, Washington, United States. Received December 09, 1983.

origin: United States. **pedigree:** Seedling selection from seed collected in California. **local name:** Garnet Gooseberry, Fuschsia-Flowering Gooseberry. Perennial. Cultivated. Cutting.

PI 556435. *Ribes spicatum* Robson GROSSULARIACEAE

Donated by: Hort. Bot. Acad. Sci., Taschkent, Uzbek SSR, USSR. Received April 24, 1990.

origin: USSR. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from OP seedot CRIB 849. Perennial. Breeding Material. Plant.

PI 556436. *Ribes spicatum* Robson GROSSULARIACEAE

Donated by: Holloway, P.S., University of Alaska, Fairbanks, Alaska, United States. Received February 11, 1990.

origin: USSR. **pedigree:** Open pollinated from botanical collection. **collected:** August 10, 1990. Perennial. Cultivated. Seed.

PI 556437. *Ribes stenocarpum* Maxim. GROSSULARIACEAE Gooseberry

Donated by: Jaynes, R., Connecticut Experiment Station, New Haven, Connecticut, United States. Received February 01, 1984.

origin: UNKNOWN. **historical origin:** United States. **origin institute:** University of Connecticut, Agricultural Experiment Station, New Haven, Connecticut. **remarks:** Used for mildew resistance. Perennial. Breeding Material. Plant.

PI 556438. *Ribes triste* Pall. GROSSULARIACEAE Currant

Donated by: Moore, N., Plant Materials Center, Palmer, Alaska, United States. Received May 26, 1982.

origin: United States. **pedigree:** Collected from the wild in Alaska. **local name:** Swamp Red Currant. **collected:** April 1974. **latitude:** 65 deg. N. **longitude:** 150 deg. W. **Perennial.** Wild. Plant.

PI 556439. *Ribes triste* Pall. GROSSULARIACEAE Currant

Donated by: Devonian Botanical Garden, Edmonton, Alberta, Canada. Received November 07, 1984.

origin: Canada. **pedigree:** Open pollinated from botanical collection. **local name:** Swamp Red Currant. **Perennial.** Cultivated. Seed.

PI 556440. *Ribes triste* Pall. GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 15, 1986.

origin: United States. **pedigree:** Collected from the wild in Alaska. **local name:** Swamp Red Currant. **collected:** August 31, 1986. **locality:** Matanuska Glacier State Rec. Area, 50 miles E of Palmer. **latitude:** 62 deg. 10 min. N. **longitude:** 145 deg. 30 min. W. **elevation:** 480m. **remarks:** Fruit red, very ripe, good flavor Spreading deciduous, thornless shrub. **Perennial.** Wild. Seed.

PI 556441. *Ribes ussuriense* Jancz. GROSSULARIACEAE Currant

Donated by: Jaynes, R., Connecticut Experiment Station, New Haven, Connecticut, United States. Received February 01, 1984.

origin: Canada. **origin institute:** Agriculture Canada, Research Station, Ottawa, Ontario. **pedigree:** Selection from the wild. **remarks:** This is said to be a parent of Consort. **Perennial.** Breeding Material. Plant.

PI 556442. *Ribes uva-crispa* L. GROSSULARIACEAE Gooseberry

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 07, 1983.

PI 556442-continued

origin: United Kingdom. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** OP seedling selection from wild Scottish seedlot CRIB 815. **local name:** English Gooseberry, European Gooseberry. Perennial. Breeding Material. Plant.

PI 556443. *Ribes uva-crispa* L. GROSSULARIACEAE Gooseberry

Donated by: Witt, J.A., Washington Park Arboretum, Seattle, Washington, United States. Received December 09, 1983.

origin: United States. **pedigree:** Seedling selection from seed collected in India. **collected:** January 01, 1962. Perennial. Cultivated. Plant.

PI 556444. *Ribes uva-crispa* L. GROSSULARIACEAE Gooseberry

Donated by: Hiirsalmi, H., Agricultural Research Center, Dept. Horticulture, Piikio, Finland. Received March 07, 1986.

origin: Finland. **origin institute:** Agricultural Research Center, Department of Horticulture, 21500 Piikio. **cultivar:** Hinnonmaen Keltainen. **remarks:** Large berries, mildew resistant. Perennial. Cultivar. Cutting.

PI 556445 to 556446. *Ribes velutinum* var. *gooddingii* (M. Peck) C. Hitchc. GROSSULARIACEAE

Donated by: Messinger, W., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received May 1991.

PI 556445 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** May 16, 1991. **locality:** Confluence of Litte Sheep Creek and Lightning Creek. **latitude:** 45 deg. 30 min. N. **longitude:** 117 deg. W. Perennial. Wild. Plant.

PI 556446 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **collected:** May 17, 1991. **locality:** Deer Creek, 1.9mi from Imnaha. **latitude:** 45 deg. 35 min. N. **longitude:** 116 deg. 50 min. W. Perennial. Wild. Plant.

PI 556447. *Ribes viburnifolium* A. Gray GROSSULARIACEAE Currant

Donated by: Forest Farm Nursery, Williams, Oregon, United States. Received May 21, 1991.

PI 556447-continued

origin: United States. **pedigree:** Selected from the wild in California. **local name:** Evergreen Currant. **locality:** Southern California. **remarks:** Catalog description: Trailing shrub with rounded shiny leaves, aromatic when crushed. Pink flowers, red fruits. Perennial. Cultivated. Plant.

PI 556448. *Ribes viburnifolium* A. Gray GROSSULARIACEAE Currant

Donated by: Hummer, K.E., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received May 25, 1991.

origin: United States. **pedigree:** Selection from native Californian plant material. **local name:** Evergreen Currant. Perennial. Cultivated. Plant.

PI 556449. *Ribes viscosissimum* GROSSULARIACEAE Currant

Donated by: Witt, J.A., Washington Park Arboretum, Seattle, Washington, United States. Received June 05, 1984.

origin: United States. **pedigree:** Collected from the wild in Idaho. **local name:** Sticky Currant. **locality:** Idaho County near Riggins. **latitude:** 45 deg. 30 min. N. **longitude:** 116 deg. 20 min. W. **elevation:** 1710m. Perennial. Wild. Seed.

PI 556450. *Ribes viscosissimum* GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 27, 1984.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Sticky Currant. **collected:** September 26, 1984. **locality:** Willamette Nat'l Forest above Cougar reservoir. **latitude:** 44 deg. 00 min. N. **longitude:** 122 deg. 18 min. W. **elevation:** 1300m. **remarks:** Fruit oval to elongate, black with bluish bloom. Perennial. Wild. Seed.

PI 556451. *Ribes viscosissimum* GROSSULARIACEAE Currant

Donated by: Jahn, O., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 18, 1985.

PI 556451-continued

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Sticky Currant. **collected:** August 28, 1985. **locality:** Above Cougar Reserv., logged area on ridge full sun and level. **latitude:** 44 deg. 12 min. N. **longitude:** 123 deg. 00 min. W. **elevation:** 1650m. **remarks:** Light crop, drought injury. Perennial. Wild. Seed.

PI 556452. *Ribes viscosissimum* GROSSULARIACEAE Currant

Donated by: Fredricks, N., Oregon State University, Corvallis, Oregon, United States. Received July 13, 1987.

origin: United States. **origin institute:** USDA/ARS/NPGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Oregon seedlot CRIB 826. **local name:** Sticky Currant. Perennial. Breeding Material. Plant.

PI 556453. *Ribes viscosissimum* GROSSULARIACEAE Currant

Donated by: Chambers, H., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 27, 1989.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Sticky Currant. **collected:** September 27, 1989. **locality:** Along trailside on Iron Mountain. **latitude:** 44 deg. 20 min. N. **longitude:** 122 deg. 15 min. W. Perennial. Wild. Seed.

PI 556454 to 556455. *Ribes wolfii* Rothr. GROSSULARIACEAE Currant

Donated by: Thompson, M.M., Oregon State University, Horticulture Department, Corvallis, Oregon, United States. Received August 26, 1987.

PI 556454 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **local name:** Rothrock Currant. **collected:** August 1987. **locality:** Pitkin Co. Roaring Fork River, Weller Lake Trail. **latitude:** 39 deg. 07 min. N. **longitude:** 106 deg. 43 min. W. **elevation:** 2700m. **remarks:** Up to 12 berries/raceme. Shrub growing in sun near river. Perennial. Wild. Seed.

PI 556454 to 556455-continued

PI 556455 **origin:** United States. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria
Road, Corvallis, Oregon. **pedigree:** Seedling selection
from wild Colorado seedlot CRIB 831. **local name:**
Rothrock Currant. Perennial. Breeding Material. Plant.

PI 556456. *Gossypium hirsutum* L. MALVACEAE Upland cotton

Donated by: Percival, A.E., Cotton Collection, Agricultural Research
Service -- USDA, P.O. Box DN, College Station, Texas, United States.
remarks: Mississippi Obsolete Variety Collection - *Gossypium*
hirsutum. Received February 1989.

origin: Bulgaria. **other id:** SA 1231. Seed.

PI 556457 to 556466. *Triticum aestivum* L. POACEAE Wheat

Donated by: Biggs, K.G., University of Alberta, Plant Science
Department, Edmonton, Alberta, Canada. Received 1984.

PI 556457 **origin:** Canada. **origin institute:** University of Alberta,
Edmonton, Alberta. **cultivar:** 70M-009-002-002. **pedigree:**
Cno'S'/4/Son64/Y50E5//Gto/3/Inia'S'. **other id:** GP-257.
source: Crop Sci. 25(2):374 1985. **group:** CSR-WHEAT.
remarks: Early maturing, high yield, semi-dwarf type.
Adapted to the long photoperiod and short growing season
areas of northern and central Alberta. Spring Annual.
Breeding Material. Seed.

PI 556458 **origin:** Canada. **origin institute:** University of Alberta,
Edmonton, Alberta. **cultivar:** 70M-074-010-001. **pedigree:**
Cno'S'/Pitic 62. **other id:** GP-258. **source:** Crop Sci.
25(2):374 1985. **group:** CSR-WHEAT. **remarks:** Early
maturing, high yield, semi-dwarf type. Adapted to the
long photoperiod and short growing season areas of
northern and central Alberta. Spring Annual. Breeding
Material. Seed.

PI 556459 **origin:** Canada. **origin institute:** University of Alberta,
Edmonton, Alberta. **cultivar:** 74M-475-001-004. **pedigree:**
Cno'S'/Gallo//Sr70. **other id:** GP-259. **source:** Crop Sci.
25(2):374 1985. **group:** CSR-WHEAT. **remarks:** Early
maturing, high yield, semi-dwarf type. Adapted to the
long photoperiod and short growing season areas of
northern and central Alberta. Spring Annual. Breeding
Material. Seed.

PI 556457 to 556466-continued

- PI 556460 **origin:** Canada. **origin institute:** University of Alberta, Edmonton, Alberta. **cultivar:** 74M-575-001-001. **pedigree:** Bb/Inia//2*TzPP/3/3*Ane. **other id:** GP-260. **source:** Crop Sci. 25(2):374 1985. **group:** CSR-WHEAT. **remarks:** Early maturing, high yield, semi-dwarf type. Adapted to the long photoperiod and short growing season areas of northern and central Alberta. Spring Annual. Breeding Material. Seed.
- PI 556461 **origin:** Canada. **origin institute:** University of Alberta, Edmonton, Alberta. **cultivar:** 74M-580-009-001. **pedigree:** Cno/Callo//Pj62/Cal. **other id:** GP-261. **source:** Crop Sci. 25(2):374 1985. **group:** CSR-WHEAT. **remarks:** Early maturing, high yield, semi-dwarf type. Adapted to the long photoperiod and short growing season areas of northern and central Alberta. Spring Annual. Breeding Material. Seed.
- PI 556462 **origin:** Canada. **origin institute:** University of Alberta, Edmonton, Alberta. **cultivar:** 75H-020-002-001. **pedigree:** Hk/39MA/4/4777//Rei/Y/3/Kt/5/Yr70/6/Cno'S'/4/Son64/Y50E5//Gto/3/Inia'S'. **other id:** GP-262. **source:** Crop Sci. 25(2):374 1985. **group:** CSR-WHEAT. **remarks:** Early maturing, high yield, semi-dwarf type. Adapted to the long photoperiod and short growing season areas of northern and central Alberta. Spring Annual. Breeding Material. Seed.
- PI 556463 **origin:** Canada. **origin institute:** University of Alberta, Edmonton, Alberta. **cultivar:** 75M-503-007-001. **pedigree:** Choli/Fletcher. **other id:** GP-263. **source:** Crop Sci. 25(2):374 1985. **group:** CSR-WHEAT. **remarks:** Early maturing, high yield, semi-dwarf type. Adapted to the long photoperiod and short growing season areas of northern and central Alberta. Spring Annual. Breeding Material. Seed.
- PI 556464 **origin:** Canada. **origin institute:** University of Alberta, Edmonton, Alberta. **cultivar:** 75M-505-001-001. **pedigree:** Bb'S'/Tob66/4/TP//Cno/Inia'S'/3/Cno/Inia'S'. **other id:** GP-264. **source:** Crop Sci. 25(2):374 1985. **group:** CSR-WHEAT. **remarks:** Early maturing, high yield, semi-dwarf type. Adapted to the long photoperiod and short growing season areas of northern and central Alberta. Spring Annual. Breeding Material. Seed.

PI 556457 to 556466-continued

PI 556465 **origin:** Canada. **origin institute:** University of Alberta, Edmonton, Alberta. **cultivar:** 78M-352-001-001. **pedigree:** 21931/Ch53/2*LR64/3/8156/4/Nar59'S'. **other id:** GP-265. **source:** Crop Sci. 25(2):374 1985. **group:** CSR-WHEAT. **remarks:** Early maturing, high yield, semi-dwarf type. Adapted to the long photoperiod and short growing season areas of northern and central Alberta. Spring Annual. Breeding Material. Seed.

PI 556466 **origin:** Canada. **origin institute:** University of Alberta, Edmonton, Alberta. **cultivar:** 77M-545-001-001. **pedigree:** Bonza/2*Africa Mayo. **other id:** GP-266. **source:** Crop Sci. 25(2):374 1985. **group:** CSR-WHEAT. **remarks:** Early maturing, high yield, semi-dwarf type. Adapted to the long photoperiod and short growing season areas of northern and central Alberta. Spring Annual. Breeding Material. Seed.

PI 556467. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Cokers Pedigreed Seed Co., Hartsville, South Carolina, United States. Received 1971.

origin: United States. **origin institute:** Cokers Pedigreed Seed Co., Hartsville, South Carolina. **cultivar:** Coker Hampton 266A. **other id:** PVP 7100022. **source:** Expired (terminated). **group:** PVPO. **remarks:** Good yield. Resistant nematodes. Suited lighter soils. Excellent resistance shattering. Combines well. Cultivated. Annual. Cultivar. Seed.

PI 556468. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Syler, Inc., United States. Received 1973.

origin: United States. **origin institute:** Syler, Inc.. **cultivar:** BUCCANEER. **other id:** PVP 7300010. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556469. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bellatti, L., United States. Received 1973.

origin: United States. **cultivar:** SEEDMAKERS I-E. **other id:** PVP 7200078. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556470 to 556472. Glycine max (L.) Merr. FABACEAE

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

PI 556470 **origin:** United States. **origin institute:** Teweles Seed Company. **cultivar:** XK-515. **other id:** PVP 7100060. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556471 **origin:** United States. **origin institute:** Teweles Seed Company. **cultivar:** XK-585. **other id:** PVP 7100074. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556472 **origin:** United States. **origin institute:** Teweles Seed Company. **cultivar:** XK-535. **other id:** PVP 7100062. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556473 to 556477. Glycine max (L.) Merr. FABACEAE

Donated by: Soybean Research Foundation, Inc., United States. Received 1974.

PI 556473 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 350. **other id:** PVP 7400004. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556474 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 200. **other id:** PVP 7400002. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556475 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 425. **other id:** PVP 7400005. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556476 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 307P. **other id:** PVP 7400003. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556477 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 174-AT. **other id:** PVP 7400094. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556478 to 556479. Glycine max (L.) Merr. FABACEAE

Donated by: FFR Cooperative, Indiana, United States. Received 1974.

PI 556478 to 556479-continued

PI 556478 **origin:** United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 777. **other id:** PVP 7300018. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556479 **origin:** United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 666. **other id:** PVP 7300017. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556480 to 556481. Glycine max (L.) Merr. FABACEAE

Donated by: McNair Seed Company, Laurinburg, North Carolina, United States. Received 1974.

PI 556480 **origin:** United States. **origin institute:** McNair Seed Company, Laurinburg, North Carolina. **cultivar:** McNair 600. **pedigree:** F9 single plant selection from an advanced bulk population from the USDA, Stoneville, Mississippi. **other id:** PVP 7100075. **source:** Expired (terminated). **group:** PVPO. **other id:** CV-146. **source:** Crop Sci. 21(1):145 1981. **group:** CSR-SOYBEAN. **remarks:** Maturity Group VI, similar to Lee. Determinant plant type. Flowers purple. Pubescence tawny. Pod walls tan. Seeds yellow with black hila. Height averages 9 cm shorter than Lee. Resistant to bacterial pustule and target spot. Moderately resistant to root-knot nematode (*Meloidogyne arenaria*). Susceptible to *M. incognita* and phytophthora rot. Annual. Cultivar. Seed.

PI 556481 **origin:** United States. **origin institute:** McNair Seed Company, Laurinburg, North Carolina. **cultivar:** McNair 800. **pedigree:** Roanoke/N45-745. **other id:** PVP 7100042. **source:** Expired (terminated). **group:** PVPO. **other id:** CV-147. **source:** Crop Sci. 21(1):145 1981. **group:** CSR-SOYBEAN. **remarks:** Maturity Group VII, averaging 6 days later than Bragg. Flowers white. Pubescence grey. Pod walls tan. Seeds yellow with buff hila. Determinant growth type. Height averages 12 cm shorter than Bragg. Adapted to the Piedmont soils of North Carolina, South Carolina, Georgia and Alabama. Resistant to bacterial pustule and target spot. Susceptible to phytophthora rot. Annual. Cultivar. Seed.

PI 556482. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received 1974.

PI 556482-continued

origin: United States. **origin institute:** Northrup King Company. **cultivar:** Sl474. **other id:** PVP 7300085.
source: Expired (terminated). **group:** PVPO. Annual.
Cultivar. Seed.

PI 556483. Glycine max (L.) Merr. FABACEAE Soybean

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

origin: United States. **origin institute:** Lynnville Seed Company. **cultivar:** 3034. **other id:** PVP 7400097.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556484. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received 1974.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PX 185-44. **other id:** PVP 7300062. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556485 to 556487. Glycine max (L.) Merr. FABACEAE

Donated by: Agripro, Inc., United States. Received 1974.

PI 556485 **origin:** United States. **origin institute:** Agripro, Inc..
cultivar: AGRIPRO 27. **other id:** PVP 7400079. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556486 **origin:** United States. **origin institute:** Agripro, Inc..
cultivar: PONTIAC. **other id:** PVP 7400081. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556487 **origin:** United States. **origin institute:** Agripro, Inc..
cultivar: AGRIPRO 25. **other id:** PVP 7400080. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556488 to 556490. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received 1975.

PI 556488 to 556490-continued

PI 556488 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PX 181-88. **other id:** PVP 7300061. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556489 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** P61-22. **other id:** PVP 7300064. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556490 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** PETERSON 85. **other id:** PVP 7300065. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556491. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bryco Plant Research Division, United States. Received 1975.

origin: United States. **origin institute:** Bryco Plant Research Division. **cultivar:** BRYSOY 9. **other id:** PVP 7400038. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556492. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Agripro, Inc., United States. Received 1975.

origin: United States. **origin institute:** Agripro, Inc.. **cultivar:** AGRIPRO 20. **other id:** PVP 7500056. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556493. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: V.R. Seeds, Inc., United States. Received 1975.

origin: United States. **origin institute:** V.R. Seeds, Inc.. **cultivar:** CLASSIC I. **other id:** PVP 7500069. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556494. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ring Around Products, Inc., United States. Received 1975.

PI 556494-continued

origin: United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-526. **other id:** PVP 7500067. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556495 to 556496. Glycine max (L.) Merr. FABACEAE

Donated by: Asgrow Seed Company, United States. Received 1976.

PI 556495 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2656. **other id:** PVP 7600064. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556496 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3001. **other id:** PVP 7600063. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556497. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Voris Seeds, Inc., United States. Received 1976.

origin: United States. **origin institute:** Voris Seeds, Inc.. **cultivar:** VORIS 295. **other id:** PVP 7500055. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556498. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received 1976.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** P83-14. **other id:** PVP 7300063. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556499 to 556500. Glycine max (L.) Merr. FABACEAE

Donated by: Agripro, Inc., United States. Received 1976.

PI 556499 **origin:** United States. **origin institute:** Agripro, Inc.. **cultivar:** CFS 2000. **other id:** PVP 7500081. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556499 to 556500-continued

PI 556500 **origin:** United States. **origin institute:** Agripro, Inc..
cultivar: SHAWNEE. **other id:** PVP 7600009. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556501 to 556503. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1976.

PI 556501 **origin:** United States. **origin institute:** Northrup King
Company. **cultivar:** Sl346. **other id:** PVP 7500085.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556502 **origin:** United States. **origin institute:** Northrup King
Company. **cultivar:** Sl244. **other id:** PVP 7500086.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556503 **origin:** United States. **origin institute:** Northrup King
Company. **cultivar:** Bl86. **other id:** PVP 7500088.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556504. Glycine max (L.) Merr. FABACEAE

Donated by: North American Plant Breeders, Inc., United States.
Received 1976.

origin: United States. **origin institute:** North American
Plant Breeders, Inc.. **cultivar:** LANCER. **other id:** PVP
7600044. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556505. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: V.R. Seeds, Inc., United States. Received 1976.

origin: United States. **origin institute:** V.R. Seeds,
Inc.. **cultivar:** CLASSIC II. **other id:** PVP 7600041.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556506. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: McNair Seed Company, Laurinburg, North Carolina, United
States. Received 1976.

PI 556506-continued

origin: United States. **origin institute:** McNair Seed Company, Laurinburg, North Carolina. **cultivar:** McNair 500. **pedigree:** Davis/Lee 68. **other id:** PVP 7605016. **source:** Certificate in force. **group:** PVPO. **other id:** CV-145. **source:** Crop Sci. 21(1):145 1981. **group:** CSR-SOYBEAN. **remarks:** Maturity late Group V, averaging 4 days later than Forrest. Flowers purple. Pubescence tawny. Pod walls tan. Seeds yellow with black hila. Determinant growth habit. Height averages 4 cm shorter than Forrest. Plant type similar to Lee 68. Resistant to races 1 and 2 of *Phytophthora megasperma* and to bacterial pustule (caused by *Xanthomonas phaseoli*). Annual. Cultivar. Seed.

PI 556507 to 556511. *Glycine max* (L.) Merr. FABACEAE

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

PI 556507 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A1564. **other id:** PVP 7700007. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556508 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2575. **other id:** PVP 7700034. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556509 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2444. **other id:** PVP 7700006. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556510 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3585. **other id:** PVP 7700059. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556511 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3127. **other id:** PVP 7700096. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556512. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received 1977.

PI 556512-continued

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 118-11. **other id:** PVP 7700002. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556513. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ferry-Morse Seed Company, United States. Received 1977.

origin: United States. **origin institute:** Ferry-Morse Seed Company. **cultivar:** McKoy 1100. **other id:** PVP 7400026. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556514. Glycine max (L.) Merr. FABACEAE

Donated by: Cokers Pedigreed Seed Co., Hartsville, South Carolina, United States. Received 1973.

origin: United States. **origin institute:** Cokers Pedigreed Seed Co., South Carolina. **cultivar:** COKER 136. **other id:** PVP 7300091. **source:** Expired (terminated). **group:** PVPO. Annual. Cultivar. Seed.

PI 556515. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Cokers Pedigreed Seed Co., Hartsville, South Carolina, United States. Received 1976.

origin: United States. **origin institute:** Cokers Pedigreed Seed Co., South Carolina. **cultivar:** COKER 338. **pedigree:** Coker Hampton 266/Bragg. **other id:** PVP 7400058. **source:** Certificate in force. **group:** PVPO. **remarks:** High-yielding full-season soybean for Lower South. Resistant bacterial pustule, frogeye leaf spot, target spot and wildfire. Tolerant S. root-knot nematode. Resistant lodging and shattering. Medium-tall variety. High yield potential. Cultivated. Annual. Cultivar. Seed.

PI 556516. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Terral-Norris Seed Co., Inc., United States. Received 1977.

PI 556516-continued

origin: United States. **origin institute:** Terral-Norris Seed Co., Inc.. **cultivar:** TERRA-VIG 708. **other id:** PVP 7605003. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556517. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Funk Seeds International, United States. Received 1977.

origin: United States. **origin institute:** Funk Seeds International. **cultivar:** BEECHWOOD. **other id:** PVP 7600074. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556518. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1977.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** S1578. **other id:** PVP 7700078. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556519. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: FFR Cooperative, Indiana, United States. Received 1977.

origin: United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 111. **other id:** PVP 7600007. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556520 to 556523. Glycine max (L.) Merr. FABACEAE

Donated by: Soybean Research Foundation, Inc., United States. Received 1977.

PI 556520 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** GUTWEIN 180. **other id:** PVP 7700036. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556521 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** PL 6712424. **other id:** PVP 7700038. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556520 to 556523-continued

PI 556522 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** DS 160. **other id:** PVP 7700035. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556523 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** PL 6940104. **other id:** PVP 7700037. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556524. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: V.R. Seeds, Inc., United States. Received 1978.

origin: United States. **origin institute:** V.R. Seeds, Inc.. **cultivar:** IKE. **other id:** PVP 7700081. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556525. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Americana Seeds, Inc., United States. Received 1978.

origin: United States. **origin institute:** Americana Seeds, Inc.. **cultivar:** CX290. **other id:** PVP 7600056. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556526 to 556529. Glycine max (L.) Merr. FABACEAE

Donated by: Asgrow Seed Company, United States. Received 1978.

PI 556526 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3860. **other id:** PVP 7700100. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556527 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A5312. **other id:** PVP 7700111. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556528 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A4268. **other id:** PVP 7700101. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556526 to 556529-continued

PI 556529 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A5618. **other id:** PVP 7800018. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556530 to 556531. Glycine max (L.) Merr. FABACEAE

Donated by: Jacques Seed Company, United States. Received 1978.

PI 556530 **origin:** United States. **origin institute:** Jacques Seed Company. **cultivar:** J-102A. **other id:** PVP 7700056. **source:** Certificate abandoned. **group:** PVPO. Annual. Cultivar. Seed.

PI 556531 **origin:** United States. **origin institute:** Jacques Seed Company. **cultivar:** J-84A. **other id:** PVP 7700055. **source:** Certificate abandoned. **group:** PVPO. Annual. Cultivar. Seed.

PI 556532 to 556534. Glycine max (L.) Merr. FABACEAE

Donated by: Ring Around Products, Inc., United States. Received 1978.

PI 556532 **origin:** United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-501A. **other id:** PVP 7605006. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556533 **origin:** United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-401. **other id:** PVP 7800030. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556534 **origin:** United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-601. **other id:** PVP 7800031. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556535. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Land O'Lakes, Inc., United States. Received 1978.

origin: United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** MAX. **other id:** PVP 7700062. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556536 to 556537. Glycine max (L.) Merr. FABACEAE

Donated by: Cokers Pedigreed Seed Co., Hartsville, South Carolina, United States. Received 1978.

PI 556536 **origin:** United States. **origin institute:** Cokers Pedigreed Seed Co., South Carolina. **cultivar:** COKER 237. **other id:** PVP 7800034. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556537 **origin:** United States. **origin institute:** Cokers Pedigreed Seed Co., South Carolina. **cultivar:** COKER 488. **other id:** PVP 7800035. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556538 to 556543. Glycine max (L.) Merr. FABACEAE

Donated by: Soybean Research Foundation, Inc., United States. Received 1978.

PI 556538 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** MATSOY. **other id:** PVP 7800052. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556539 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** PL 723299L. **other id:** PVP 7800054. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556540 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** BIG BOY. **other id:** PVP 7800049. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556541 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** GUTWEIN 421. **other id:** PVP 7800051. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556542 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** PL 709947. **other id:** PVP 7800053. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556543 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** DOTSON. **other id:** PVP 7800050. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556544. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Lynnnville Seed Company, United States. Received 1978.

origin: United States. **origin institute:** Lynnnville Seed Company. **cultivar:** 3035. **other id:** PVP 7700075. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556545. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Gold Kist, Inc., United States. Received 1978.

origin: United States. **origin institute:** Gold Kist, Inc.. **cultivar:** BROOKS. **other id:** PVP 7700025. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556546. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: FFR Cooperative, Indiana, United States. Received 1978.

origin: United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 444. **other id:** PVP 7600006. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556547. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Callahan Enterprises, Inc., United States. Received 1978.

origin: United States. **origin institute:** Callahan Enterprises, Inc.. **cultivar:** ROCKFORD. **other id:** PVP 7800021. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556548. Glycine max (L.) Merr. FABACEAE

Donated by: Asgrow Seed Company, United States. Received 1979.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2858. **other id:** PVP 7900037. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556549. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received 1979.

PI 556549-continued

origin: United States. **origin institute:** Northrup King Company. **cultivar:** S4055. **other id:** PVP 7800101.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556550 to 556556. *Glycine max* (L.) Merr. FABACEAE

Donated by: North American Plant Breeders, Inc., United States.
Received 1979.

PI 556550 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 40. **other id:** PVP 7900014. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556551 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** CO-OP 500. **other id:** PVP 7900018. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556552 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** RS 2300. **other id:** PVP 7900013. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556553 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 70. **other id:** PVP 7800081. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556554 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 10. **other id:** PVP 7900010. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556555 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** GT 1200. **other id:** PVP 7900019. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556556 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** GT 1310. **other id:** PVP 7900021. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556557. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Soybean Research Foundation, Inc., United States.
Received 1979.

PI 556557-continued

origin: United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 150P. **other id:** PVP 7800055. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556558 to 556560. Glycine max (L.) Merr. FABACEAE

Donated by: Ring Around Products, Inc., United States. Received 1979.

PI 556558 **origin:** United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-604. **other id:** PVP 7900008. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556559 **origin:** United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-480. **other id:** PVP 7900007. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556560 **origin:** United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** MITCHELL 450. **other id:** PVP 7900046. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556561. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Krietemeyer, L., Nixon Seed Company, United States. Received 1979.

origin: United States. **origin institute:** Nixon Seed Company. **cultivar:** K-77. **other id:** PVP 7800015. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556562. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: J.M. Schultz Seed Company, United States. Received 1979.

origin: United States. **origin institute:** J.M. Schultz Seed Company. **cultivar:** VICTOR. **other id:** PVP 7900025. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556563. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Callahan Enterprises, Inc., United States. Received 1979.

origin: United States. **origin institute:** Callahan Enterprises, Inc.. **cultivar:** S-48. **other id:** PVP 7800098. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556564. Glycine max (L.) Merr. FABACEAE

Donated by: Cokers Pedigreed Seed Co., Hartsville, South Carolina, United States. Received 1980.

origin: United States. **origin institute:** Cokers Pedigreed Seed Co., South Carolina. **cultivar:** COKER 156. **other id:** PVP 7900043. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556565 to 556570. Glycine max (L.) Merr. FABACEAE

Donated by: Soybean Research Foundation, Inc., United States. Received 1980.

PI 556565 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 250. **other id:** PVP 7900112. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556566 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** HOBSON. **other id:** PVP 7900109. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556567 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 450P. **other id:** PVP 7900113. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556568 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** PL 72-3176L. **other id:** PVP 7900111. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556569 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** PL 70-10546D. **other id:** PVP 7900110. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556565 to 556570-continued

PI 556570 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** GUTWEIN 221. **other id:** PVP 7900108. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556571. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Helena Chemical Company, United States. Received 1980.

origin: United States. **origin institute:** Helena Chemical Company. **cultivar:** WILSTAR 790. **other id:** PVP 7900058. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556572 to 556573. Glycine max (L.) Merr. FABACEAE

Donated by: Asgrow Seed Company, United States. Received 1980.

PI 556572 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3659. **other id:** PVP 8000086. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556573 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3501. **other id:** PVP 8700119. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556574 to 556575. Glycine max (L.) Merr. FABACEAE

Donated by: North American Plant Breeders, Inc., United States. Received 1980.

PI 556574 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** TC 137. **other id:** PVP 8000071. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556575 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 225C. **other id:** PVP 8000073. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556576 to 556577. Glycine max (L.) Merr. FABACEAE

Donated by: Baluch, S. J., FFR Cooperative, 4112 East State Road 225, West Lafayette, Indiana, United States. Received 1980.

PI 556576 to 556577-continued

PI 556576 **origin:** United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 335. **other id:** PVP 7900070. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556577 **origin:** United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 224. **other id:** PVP 8000090. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556578. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Lynnville Seed Company, United States. Received 1980.

origin: United States. **origin institute:** Lynnville Seed Company. **cultivar:** RIVERSIDE 2025. **other id:** PVP 8000015. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556579 to 556581. Glycine max (L.) Merr. FABACEAE

Donated by: V.R. Seeds, Inc., United States. Received 1980.

PI 556579 **origin:** United States. **origin institute:** V.R. Seeds, Inc.. **cultivar:** MAGNUM. **other id:** PVP 7900106. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556580 **origin:** United States. **origin institute:** V.R. Seeds, Inc.. **cultivar:** DUKE. **other id:** PVP 7900105. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556581 **origin:** United States. **origin institute:** V.R. Seeds, Inc.. **cultivar:** DELTA. **other id:** PVP 7900107. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556582. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Delta and Pine Land Company, Mississippi, United States. Received 1980.

origin: United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DELTAPINE 345. **other id:** PVP 8000045. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556583 to 556584. Glycine max (L.) Merr. FABACEAE

Donated by: McNair Seed Company, Laurinburg, North Carolina, United States. Received 1980.

PI 556583 **origin:** United States. **origin institute:** McNair Seed Company, Laurinburg, North Carolina. **cultivar:** McNair 710. **pedigree:** McNair 600/Coker Hampton 266. **other id:** PVP 7900088. **source:** Certificate in force. **group:** PVPO. **other id:** CV-152. **source:** Crop Sci. 21(6):987 1981. **group:** CSR-SOYBEAN. **remarks:** Purple flowers. Gray pubescence. Brown pod walls. Group VII maturity. Seeds dull yellow seed coats. Imperfect black hila. Seed size averages 17g/100. Resistant to races 1 and 2 of phytophthora root rot. Susceptible to soybean cyst nematode. Determinant growth habit. Maturity Group VII. Annual. Cultivar. Seed.

PI 556584 **origin:** United States. **origin institute:** McNair Seed Company, Laurinburg, North Carolina. **cultivar:** McNair 770. **pedigree:** Ransom/Pickett 71. **other id:** PVP 7900089. **source:** Certificate in force. **group:** PVPO. **other id:** CV-153. **source:** Crop Sci. 21(6):988 1981. **group:** CSR-SOYBEAN. **remarks:** Maturity Group VII, maturing 2 days earlier than Bragg. Flowers purple. Pubescence grey. Pod walls brown. Seeds yellow and dull with imperfect black hila. Determinant growth habit. Height averages 10-20 cm shorter than Bragg. Resistant to race 3 of soybean cyst nematode and bacterial pustule. Susceptible to all races of phytophthora root rot. Annual. Cultivar. Seed.

PI 556585 to 556587. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1980.

PI 556585 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S2596. **other id:** PVP 8000009. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556586 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S33-45. **other id:** PVP 8700114. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556587 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S53-34. **other id:** PVP 8700129. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556588 to 556594. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received 1980.

PI 556588 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 2877. **other id:** PVP 8000027. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556589 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 4280. **other id:** PVP 8000024. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556590 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 4880. **other id:** PVP 8000025. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556591 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 1981. **other id:** PVP 8000102. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556592 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 3081. **other id:** PVP 8000103. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556593 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 1677. **other id:** PVP 8000023. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556594 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 3981. **other id:** PVP 8000105. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556595. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Scientific Seed Co., Inc., United States. Received 1980.

origin: United States. **origin institute:** Scientific Seed Co., Inc.. **cultivar:** STEVENS. **other id:** PVP 8000076. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556596. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ring Around Products, Inc., United States. Received 1980.

origin: United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-402. **other id:** PVP 8000093. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556597. Glycine max (L.) Merr. FABACEAE

Donated by: Asgrow Seed Company, United States. Received 1981.

origin: United States. **origin institute:** Asgrow Seed Company. **cultivar:** A5939. **other id:** PVP 8000148. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556598 to 556602. Glycine max (L.) Merr. FABACEAE

Donated by: Dairyland Seed Company, Inc., Wisconsin, United States. Received 1981.

PI 556598 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-141. **other id:** PVP 8100020. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556599 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-171. **other id:** PVP 8100021. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556600 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-207. **other id:** PVP 8100022. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556601 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-232. **other id:** PVP 8100023. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556602 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-120. **other id:** PVP 8100096. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556603 to 556610. Glycine max (L.) Merr. FABACEAE

Donated by: North American Plant Breeders, Inc., United States.
Received 1981.

PI 556603 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** GT 1250. **other id:** PVP 7900020. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556604 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** HP 20-20. **other id:** PVP 8000070. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556605 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** HS 220. **other id:** PVP 8100007. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556606 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** HS 265. **other id:** PVP 8100009. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556607 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 250. **other id:** PVP 8100005. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556608 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 71. **other id:** PVP 8100090. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556609 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** GT 1380. **other id:** PVP 8100088. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556610 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** HP 3700. **other id:** PVP 8100106. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556611. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ring Around Products, Inc., United States. **Received** 1981.

PI 556611-continued

origin: United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-481. **other id:** PVP 8000054. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556612. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Terral-Norris Seed Co., Inc., United States. Received 1981.

origin: United States. **origin institute:** Terral-Norris Seed Co., Inc.. **cultivar:** TERRA-VIG 606. **other id:** PVP 8000163. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556613. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Land O'Lakes, Inc., United States. Received 1981.

origin: United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L4404. **other id:** PVP 8000125. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556614 to 556615. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States. Received 1981.

PI 556614 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 2981. **other id:** PVP 8100038. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556615 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 0877. **other id:** PVP 8000028. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556616. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ferry-Morse Seed Company, United States. Received 1981.

origin: United States. **origin institute:** Ferry-Morse Seed Company. **cultivar:** GT 1440. **other id:** PVP 8100016. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556617 to 556618. Glycine max (L.) Merr. FABACEAE

Donated by: Soybean Research Foundation, Inc., United States.
Received 1981.

PI 556617 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 350P. **other id:** PVP 8100115. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556618 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** PL 707743. **other id:** PVP 8100113. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556619. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Co., Inc., United States. Received 1981.

origin: United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 936X. **other id:** PVP 8100080. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556620. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: FFR Cooperative, Indiana, United States. Received 1981.

origin: United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 668. **other id:** PVP 8100140. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556621 to 556622. Glycine max (L.) Merr. FABACEAE

Donated by: Land O'Lakes, Inc., United States. Received 1982.

PI 556621 **origin:** United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L4104. **other id:** PVP 8100142. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556622 **origin:** United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L4303. **other id:** PVP 8200135. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556623. *Glycine max* (L.) Merr. FABACEAE

Donated by: Cokers Pedigreed Seed Co., Hartsville, South Carolina, United States. Received 1982.

origin: United States. **origin institute:** Cokers Pedigreed Seed Co., South Carolina. **cultivar:** COKER 317. **other id:** PVP 8100095. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556624 to 556627. *Glycine max* (L.) Merr. FABACEAE

Donated by: North American Plant Breeders, Inc., Ames, Iowa, United States. Received 1982.

PI 556624 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** HS 235. **other id:** PVP 8100008. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556625 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 350. **other id:** PVP 8100006. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556626 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 55. **other id:** PVP 8100089. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556627 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 230. **other id:** PVP 8200072. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556628 to 556631. *Glycine max* (L.) Merr. FABACEAE

Donated by: Callahan Enterprises, Inc., United States. Received 1982.

PI 556628 **origin:** United States. **origin institute:** Callahan Enterprises, Inc.. **cultivar:** CS20. **other id:** PVP 8100132. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556629 **origin:** United States. **origin institute:** Callahan Enterprises, Inc.. **cultivar:** CS45. **other id:** PVP 8100138. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556628 to 556631-continued

PI 556630 **origin:** United States. **origin institute:** Callahan Enterprises, Inc.. **cultivar:** CS31. **other id:** PVP 8100135. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556631 **origin:** United States. **origin institute:** Callahan Enterprises, Inc.. **cultivar:** CS38. **other id:** PVP 8100136. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556632 to 556633. Glycine max (L.) Merr. FABACEAE

Donated by: Jacques Seed Company, United States. Received 1982.

PI 556632 **origin:** United States. **origin institute:** Jacques Seed Company. **cultivar:** J-112. **other id:** PVP 8100092. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556633 **origin:** United States. **origin institute:** Jacques Seed Company. **cultivar:** J103. **other id:** PVP 8100091. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556634. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Soybean Research Foundation, Inc., United States. Received 1982.

origin: United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 101. **other id:** PVP 8100152. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556635 to 556636. Glycine max (L.) Merr. FABACEAE

Donated by: Delta and Pine Land Company, Mississippi, United States. Received 1982.

PI 556635 **origin:** United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DELTAPINE 105. **other id:** PVP 8100151. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556636 **origin:** United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DELTAPINE 506. **other id:** PVP 8100149. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556637 to 556639. Glycine max (L.) Merr. FABACEAE

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

PI 556637 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A1937. **other id:** PVP 8100082. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556638 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A1179. **other id:** PVP 8100081. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556639 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2680. **other id:** PVP 8100083. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556640 to 556641. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States. Received 1982.

PI 556640 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 2180. **other id:** PVP 8000029. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556641 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 2480. **other id:** PVP 8000030. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556642 to 556646. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1982.

PI 556642 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** TS250. **other id:** PVP 8100176. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556643 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S09-90. **other id:** PVP 8100146. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556644 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S18-84. **other id:** PVP 8200093. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556642 to 556646-continued

PI 556645 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S40-44. **other id:** PVP 8100147. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556646 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** B242. **other id:** PVP 8200091. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556647. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ring Around Products, Inc., United States. Received 1982.

origin: United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-680. **other id:** PVP 8100097. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556648. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Anand, S. C., University of Missouri, Delta Center, Portageville, Missouri, United States. Received 1982.

origin: United States. **origin institute:** McNair Seed Company, Laurinburg, North Carolina. **cultivar:** McNair 700. **pedigree:** Bragg/Ranson. **other id:** CV-159. **source:** Crop Sci. 23(1):185 1983. **group:** CSR-SOYBEAN. **other id:** PVP 7900093. **source:** Application abandoned/withdrawn. **group:** PVPO. **remarks:** Maturity Group VII, maturing 3 days later than Bragg. Flower purple. Pubescence brown. Pod walls tan. Seeds yellow and dull with black hila. Determinant growth habit. Resistant to bacterial pustule. Susceptible to soybean nematode and phytophthora root rot. Cultivated. Annual. Cultivar. Seed.

PI 556649. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Milburn Farms, Inc., United States. Received 1982.

origin: United States. **origin institute:** Milburn Farms, Inc.. **cultivar:** CYPRESS 6000. **other id:** PVP 8100131. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556650 to 556652. Glycine max (L.) Merr. FABACEAE

Donated by: Callahan Enterprises, Inc., United States. Received 1983.

PI 556650 **origin:** United States. **origin institute:** Callahan Enterprises, Inc.. **cultivar:** CS42. **other id:** PVP 8100137. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556651 **origin:** United States. **origin institute:** Callahan Enterprises, Inc.. **cultivar:** CS24. **other id:** PVP 8100133. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556652 **origin:** United States. **origin institute:** Callahan Enterprises, Inc.. **cultivar:** CS30. **other id:** PVP 8100134. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556653 to 556660. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1983.

PI 556653 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** B203. **other id:** PVP 8200090. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556654 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S72-60. **other id:** PVP 8200164. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556655 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** 2400. **other id:** PVP 8100145. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556656 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S69-96. **other id:** PVP 8200165. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556657 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** B152. **other id:** PVP 8200092. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556658 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S14-60. **other id:** PVP 8300088. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556653 to 556660-continued

PI 556659 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S45-01. **other id:** PVP 8300090. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556660 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S30-31. **other id:** PVP 8300089. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556661 to 556663. Glycine max (L.) Merr. FABACEAE

Donated by: Delta and Pine Land Company, Mississippi, United States. Received 1983.

PI 556661 **origin:** United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DELTAPINE 417. **other id:** PVP 8300014. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556662 **origin:** United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DELTAPINE 497. **other id:** PVP 8300013. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556663 **origin:** United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DELTAPINE 246. **other id:** PVP 8200102. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556664. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Helena Chemical Company, United States. Received 1983.

origin: United States. **origin institute:** Helena Chemical Company. **cultivar:** SHILOH. **other id:** PVP 8300006. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556665 to 556671. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States. Received 1983.

PI 556665 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 1282. **other id:** PVP 8200144. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556665 to 556671-continued

- PI 556666 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 6782. **other id:** PVP 8200117. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556667 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 1082. **other id:** PVP 8200115. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556668 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 3580. **other id:** PVP 8000026. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556669 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 5482. **other id:** PVP 8200116. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556670 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9561. **other id:** PVP 8200119. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556671 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 3481. **other id:** PVP 8000104. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556672 to 556675. Glycine max (L.) Merr. FABACEAE

Donated by: Soybean Research Foundation, Inc., United States.
Received 1983.

- PI 556672 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** GL 2250. **other id:** PVP 8100114. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556673 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** GL 2552. **other id:** PVP 8300094. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556674 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** GUTWEIN 225. **other id:** PVP 8300093. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556672 to 556675-continued

PI 556675 **origin:** United States. **origin institute:** Soybean Research Foundation, Inc.. **cultivar:** SRF 205. **other id:** PVP 8300092. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556676 to 556684. Glycine max (L.) Merr. FABACEAE

Donated by: North American Plant Breeders, Inc., United States. Received 1983.

PI 556676 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** HP 4800. **other id:** PVP 8200073. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556677 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** HP 2530. **other id:** PVP 8100105. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556678 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** HP 3033S. **other id:** PVP 8300025. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556679 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** RS 2330. **other id:** PVP 8300027. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556680 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 420. **other id:** PVP 8300026. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556681 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 240. **other id:** PVP 8300028. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556682 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 120. **other id:** PVP 8300029. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556683 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** AP 330. **other id:** PVP 8300146. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556676 to 556684-continued

PI 556684 **origin:** United States. **origin institute:** North American Plant Breeders, Inc.. **cultivar:** RUBY. **other id:** PVP 8300145. **source:** Certificate abandoned. **group:** PVPO. Annual. Cultivar. Seed.

PI 556685 to 556690. Glycine max (L.) Merr. FABACEAE

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

PI 556685 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A5308. **other id:** PVP 8100084. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556686 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A7372. **other id:** PVP 8200087. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556687 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3966. **other id:** PVP 8300139. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556688 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A4997. **other id:** PVP 8300137. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556689 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2943. **other id:** PVP 8300135. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556690 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A6520. **other id:** PVP 8300136. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556691 to 556695. Glycine max (L.) Merr. FABACEAE

Donated by: Land O'Lakes, Inc., United States. Received 1983.

PI 556691 **origin:** United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L4106. **other id:** PVP 8200136. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556691 to 556695-continued

- PI 556692 **origin:** United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L4207. **other id:** PVP 8200134. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556693 **origin:** United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L4204. **other id:** PVP 8200133. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556694 **origin:** United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L4504. **other id:** PVP 8000127. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556695 **origin:** United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L4503. **other id:** PVP 8000126. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556696 to 556697. Glycine max (L.) Merr. FABACEAE

Donated by: Cokers Pedigreed Seed Co., Hartsville, South Carolina, United States. Received 1983.

- PI 556696 **origin:** United States. **origin institute:** Cokers Pedigreed Seed Co., South Carolina. **cultivar:** COKER 368. **other id:** PVP 8200140. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556697 **origin:** United States. **origin institute:** Cokers Pedigreed Seed Co., South Carolina. **cultivar:** TERRA-VIG 505. **other id:** PVP 8200153. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556698. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bellatti, L., United States. Received 1982.

origin: United States. **cultivar:** BELLATTI-R-77-84.
other id: PVP 8200056. **source:** Certificate in force.
group: PVPO. Annual. Cultivar. Seed.

PI 556699. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Co., Inc., United States. Received 1982.

PI 556699-continued

origin: United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 930. **other id:** PVP 8200127. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556700. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ring Around Products, Inc., United States. Received 1983.

origin: United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-580. **other id:** PVP 8300075. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556701 to 556704. Glycine max (L.) Merr. FABACEAE

Donated by: Zoecon Corporation, United States. Received 1983.

PI 556701 **origin:** United States. **origin institute:** Zoecon Corporation. **cultivar:** MITCHELL 410. **other id:** PVP 8200162. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556702 **origin:** United States. **origin institute:** Zoecon Corporation. **cultivar:** RA-403. **other id:** PVP 8200163. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556703 **origin:** United States. **origin institute:** Zoecon Corporation. **cultivar:** RA-606. **other id:** PVP 8200161. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556704 **origin:** United States. **origin institute:** Zoecon Corporation. **cultivar:** RA-502. **other id:** PVP 8200160. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556705. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Illinois Foundation Seeds, Inc., Illinois, United States. Received 1983.

origin: United States. **origin institute:** Illinois Foundation Seeds, Inc., Illinois. **cultivar:** BIRCH. **other id:** PVP 8200107. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556706. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: V.R. Seeds, Inc., United States. Received 1983.

origin: United States. **origin institute:** V.R. Seeds, Inc.. **cultivar:** VR 3393. **other id:** PVP 8200057.
source: Application abandoned/withdrawn. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556707 to 556710. Glycine max (L.) Merr. FABACEAE

Donated by: Dairyland Seed Company, Inc., Wisconsin, United States.
Received 1983.

PI 556707 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-320. **other id:** PVP 8200123. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556708 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-227. **other id:** PVP 8200124. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556709 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-352. **other id:** PVP 8200125. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556710 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-303. **other id:** PVP 8200126. **source:** Application abandoned/withdrawn.
group: PVPO. Annual. Cultivar. Seed.

PI 556711. Glycine max (L.) Merr. FABACEAE

Donated by: FFR Cooperative, Indiana, United States. Received 1983.

origin: United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 560. **other id:** PVP 8300002. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556712 to 556715. Glycine max (L.) Merr. FABACEAE

Donated by: Midwest Oilseeds, Inc., United States. Received 1983.

PI 556712 **origin:** United States. **origin institute:** Midwest Oilseeds, Inc.. **cultivar:** 90210-30266. **other id:** PVP 8200100. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556712 to 556715-continued

- PI 556713 **origin:** United States. **origin institute:** Midwest Oilseeds, Inc.. **cultivar:** 60524-30575. **other id:** PVP 8200101. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556714 **origin:** United States. **origin institute:** Midwest Oilseeds, Inc.. **cultivar:** 71229-31008. **other id:** PVP 8200098. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556715 **origin:** United States. **origin institute:** Midwest Oilseeds, Inc.. **cultivar:** 90339-30435. **other id:** PVP 8200099. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556716. *Glycine max* (L.) Merr. FABACEAE

Donated by: Gold Kist, Inc., United States. Received 1983.

origin: United States. **origin institute:** Gold Kist, Inc.. **cultivar:** GK-67. **other id:** PVP 8200142. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556717 to 556721. *Glycine max* (L.) Merr. FABACEAE

Donated by: Jacob Hartz Seed Co., Inc., United States. Received 1983.

- PI 556717 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 7126. **other id:** PVP 8300129. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556718 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 5252. **other id:** PVP 8300130. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556719 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 5370. **other id:** PVP 8300128. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556720 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 6383. **other id:** PVP 8300127. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556717 to 556721-continued

PI 556721 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 5171. **other id:** PVP 8300126. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556722. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Helena Chemical Company, United States. Received 1983.

origin: United States. **origin institute:** Helena Chemical Company. **cultivar:** SUMTER. **other id:** PVP 8300005. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556723 to 556726. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1984.

PI 556723 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S42-40. **other id:** PVP 8400122. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556724 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S23-03. **other id:** PVP 8400120. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556725 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S39-93. **other id:** PVP 8400121. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556726 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S69-54. **other id:** PVP 8400064. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556727. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Collier, B.B., United States; and Smith, B.A., United States. Received 1984.

origin: United States. **cultivar:** COLLIER. **other id:** PVP 8400099. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556728 to 556731. Glycine max (L.) Merr. FABACEAE

Donated by: Asgrow Seed Company, United States. Received 1984.

PI 556728 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A6242. **other id:** PVP 8400096. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556729 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2522. **other id:** PVP 8400137. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556730 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3420. **other id:** PVP 8400149. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556731 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A4271. **other id:** PVP 8400150. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556732 to 556736. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States. Received 1984.

PI 556732 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9571. **other id:** PVP 8400071. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556733 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9471. **other id:** PVP 8400072. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556734 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9441. **other id:** PVP 8400073. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556735 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9292. **other id:** PVP 8400074. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556736 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9271. **other id:** PVP 8400075. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556737. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Jacques Seed Company, United States. Received 1983.

origin: United States. **origin institute:** Jacques Seed Company. **cultivar:** J82. **other id:** PVP 8400009. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556738. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: University of Missouri, Missouri, United States. Received 1983.

origin: United States. **origin institute:** University of Missouri, Portageville, Missouri. **cultivar:** BRADLEY. **pedigree:** D70-3115/J74-39. **other id:** PVP 8300175. **source:** Certificate in force. **group:** PVPO. **other id:** CV-175. **source:** Crop Sci. 24(5):998 1984. **group:** CSR-SOYBEAN. **remarks:** Maturity early Group VI, about 6 days earlier than Centennial. Flowers white. Pubescence tawny. Seeds yellow with black hila. Shattering resistant. Highly resistant to SCN races 3 and 4. Moderately resistant to root-knot nematode (*Meloidogyne incognita*). Carries gene Rps1 for resistance to phytophthora root. Susceptible to bacterial pustule. Annual. Cultivar. Seed.

PI 556739 to 556740. *Glycine max* (L.) Merr. FABACEAE

Donated by: Davis, W. H., Ring Around Products, Inc., West Texas Res Ctr, PO Box 1017, Hale Center, Texas, United States. Received 1983.

PI 556739 **origin:** United States. **origin institute:** Ring Around Products, Inc., Hale Center, Texas. **cultivar:** RA-701. **other id:** PVP 8000059. **source:** Certificate abandoned. **group:** PVPO. Annual. Cultivar. Seed.

PI 556740 **origin:** United States. **origin institute:** Ring Around Products, Inc., Hale Center, Texas. **cultivar:** RA-800. **other id:** PVP 8100141. **source:** Certificate abandoned. **group:** PVPO. Annual. Cultivar. Seed.

PI 556741 to 556744. *Glycine max* (L.) Merr. FABACEAE

Donated by: CR Seeds, United States. Received 1984.

PI 556741 **origin:** United States. **origin institute:** CR Seeds. **cultivar:** COKER 393. **other id:** PVP 8400018. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556741 to 556744-continued

- PI 556742 **origin:** United States. **origin institute:** CR Seeds.
cultivar: COKER 355. **other id:** PVP 8400019. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.
- PI 556743 **origin:** United States. **origin institute:** CR Seeds.
cultivar: COKER 485. **other id:** PVP 8400078. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.
- PI 556744 **origin:** United States. **origin institute:** CR Seeds.
cultivar: COKER 425. **other id:** PVP 8400077. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556745 to 556747. Glycine max (L.) Merr. FABACEAE

Donated by: Lynnville Seed Company, United States. Received 1984.

- PI 556745 **origin:** United States. **origin institute:** Lynnville Seed
Company. **cultivar:** RIVERSIDE 2024. **other id:** PVP
8400036. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.
- PI 556746 **origin:** United States. **origin institute:** Lynnville Seed
Company. **cultivar:** RIVERSIDE 303C. **other id:** PVP
8400035. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.
- PI 556747 **origin:** United States. **origin institute:** Lynnville Seed
Company. **cultivar:** RIVERSIDE 2021. **other id:** PVP
7800025. **source:** Application abandoned/withdrawn.
group: PVPO. Annual. Cultivar. Seed.

PI 556748. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bailey Seed Farms, Inc., United States. Received 1984.

origin: United States. **origin institute:** Bailey Seed
Farms, Inc.. **cultivar:** PRN-82. **other id:** PVP 8400032.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556749 to 556751. Glycine max (L.) Merr. FABACEAE

Donated by: King Grain U.S.A., Inc., United States. Received 1984.

PI 556749 to 556751-continued

PI 556749 **origin:** United States. **origin institute:** King Grain U.S.A., Inc.. **cultivar:** KG30. **other id:** PVP 8500022. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556750 **origin:** United States. **origin institute:** King Grain U.S.A., Inc.. **cultivar:** KG70. **other id:** PVP 8500024. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556751 **origin:** United States. **origin institute:** King Grain U.S.A., Inc.. **cultivar:** KG20. **other id:** PVP 8500023. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556752 to 556753. Glycine max (L.) Merr. FABACEAE

Donated by: Stanford Seed Company, United States. Received 1984.

PI 556752 **origin:** United States. **origin institute:** Stanford Seed Company. **cultivar:** HT5203. **other id:** PVP 8400069. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556753 **origin:** United States. **origin institute:** Stanford Seed Company. **cultivar:** HT4203. **other id:** PVP 8400070. **source:** Certificate abandoned. **group:** PVPO. Annual. Cultivar. Seed.

PI 556754. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ring Around Products, Inc., United States. Received 1984.

origin: United States. **origin institute:** Ring Around Products, Inc.. **cultivar:** RA-603. **other id:** PVP 8000057. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556755 to 556757. Glycine max (L.) Merr. FABACEAE

Donated by: Jacques Seed Company, United States. Received 1984.

PI 556755 **origin:** United States. **origin institute:** Jacques Seed Company. **cultivar:** J-8287. **other id:** PVP 8400080. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556755 to 556757-continued

PI 556756 **origin:** United States. **origin institute:** Jacques Seed Company. **cultivar:** J-72. **other id:** PVP 8400079. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556757 **origin:** United States. **origin institute:** Jacques Seed Company. **cultivar:** J-8389. **other id:** PVP 8400081. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556758 to 556760. Glycine max (L.) Merr. FABACEAE

Donated by: Rohm and Haas Seeds, Inc., United States. Received 1984.

PI 556758 **origin:** United States. **origin institute:** Rohm and Haas Seeds, Inc.. **cultivar:** RA-452. **other id:** PVP 8500009. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556759 **origin:** United States. **origin institute:** Rohm and Haas Seeds, Inc.. **cultivar:** RA-451. **other id:** PVP 8500008. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556760 **origin:** United States. **origin institute:** Rohm and Haas Seeds, Inc.. **cultivar:** RA-405. **other id:** PVP 8500010. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556761 to 556767. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1985.

PI 556761 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S27-10. **other id:** PVP 8500117. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556762 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S42-30. **other id:** PVP 8500119. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556763 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S24-24. **other id:** PVP 8500122. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556761 to 556767-continued

PI 556764 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S39-99. **other id:** PVP 8500118. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556765 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S15-50. **other id:** PVP 8500120. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556766 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** B335. **other id:** PVP 8500116. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556767 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** B095. **other id:** PVP 8500121. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556768 to 556769. Glycine max (L.) Merr. FABACEAE

Donated by: Land O'Lakes, Inc., United States. Received 1985.

PI 556768 **origin:** United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L1771. **other id:** PVP 8500140. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556769 **origin:** United States. **origin institute:** Land O'Lakes, Inc.. **cultivar:** L2230. **other id:** PVP 8500141. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556770 to 556775. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States. Received 1985.

PI 556770 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9691. **other id:** PVP 8500145. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556771 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9061. **other id:** PVP 8500144. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556770 to 556775-continued

- PI 556772 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9541. **other id:** PVP 8500147. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556773 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9591. **other id:** PVP 8500143. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556774 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9791. **other id:** PVP 8500146. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556775 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9531. **other id:** PVP 8500142. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556776 to 556784. Glycine max (L.) Merr. FABACEAE

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

- PI 556776 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A1214. **other id:** PVP 8500157. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556777 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A1895. **other id:** PVP 8500158. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556778 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3427. **other id:** PVP 8500159. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556779 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A1525. **other id:** PVP 8500156. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556780 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3803. **other id:** PVP 8500160. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556776 to 556784-continued

PI 556781 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3307. **other id:** PVP 8600020. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556782 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A5149. **other id:** PVP 8600018. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556783 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2187. **other id:** PVP 8600021. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556784 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A4595. **other id:** PVP 8600019. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556785. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: King Grain U.S.A., Inc., United States. Received 1985.

origin: United States. **origin institute:** King Grain U.S.A., Inc.. **cultivar:** KG60. **other id:** PVP 8500175. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556786. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacques Seed Company, United States. Received 1985.

origin: United States. **origin institute:** Jacques Seed Company. **cultivar:** J-231. **other id:** PVP 8500173. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556787 to 556792. Glycine max (L.) Merr. FABACEAE

Donated by: Dairyland Seed Company, Inc., Wisconsin, United States. Received 1985.

PI 556787 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-151. **other id:** PVP 8500206. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556787 to 556792-continued

- PI 556788 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-205. **other id:** PVP 8500207. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556789 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-255. **other id:** PVP 8500208. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556790 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-287. **other id:** PVP 8500209. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556791 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-297. **other id:** PVP 8500210. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556792 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-317. **other id:** PVP 8500211. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556793 to 556795. Glycine max (L.) Merr. FABACEAE

Donated by: Terral-Norris Seed Co., Inc., United States. Received 1985.

- PI 556793 **origin:** United States. **origin institute:** Terral-Norris Seed Co., Inc.. **cultivar:** TERRA-VIG 553. **other id:** PVP 8600001. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556794 **origin:** United States. **origin institute:** Terral-Norris Seed Co., Inc.. **cultivar:** TERRA-VIG 717. **other id:** PVP 8600006. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556795 **origin:** United States. **origin institute:** Terral-Norris Seed Co., Inc.. **cultivar:** TERRA-VIG 616. **other id:** PVP 8600005. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556796. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Prairie Seed Co., Inc., United States. Received 1985.

PI 556796-continued

origin: United States. **origin institute:** Prairie Seed Co., Inc.. **cultivar:** SANALONA. **other id:** PVP 8600008. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556797 to 556801. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States. Received 1986.

PI 556797 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9201. **other id:** PVP 8600120. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556798 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9251. **other id:** PVP 8600121. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556799 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9361. **other id:** PVP 8600125. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556800 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9581. **other id:** PVP 8600122. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556801 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9751. **other id:** PVP 8600123. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556802. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Stone Seed Co., Inc., United States. Received 1986.

origin: United States. **origin institute:** Stone Seed Co., Inc.. **cultivar:** S331. **other id:** PVP 8600024. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556803 to 556805. Glycine max (L.) Merr. FABACEAE

Donated by: Jacob Hartz Seed Co., Inc., United States. Received 1986.

PI 556803 to 556805-continued

PI 556803 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 6130. **other id:** PVP 8600014. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556804 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 6383R. **other id:** PVP 8600044. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556805 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 9190. **other id:** PVP 8600043. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556806. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Co., Inc., United States. Received 1985.

origin: United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 8112. **other id:** PVP 8600015. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556807. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Delta and Pine Land Company, Mississippi, United States. Received 1985.

origin: United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DELTAPINE 566. **other id:** PVP 8600023. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556808. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Illinois Foundation Seed, Illinois, United States. Received 1985.

origin: United States. **origin institute:** Illinois Foundation Seeds, Inc., Illinois. **cultivar:** OAK. **other id:** PVP 8600013. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556809 to 556811. Glycine max (L.) Merr. FABACEAE

Donated by: Nickerson American Plant Breeders, Inc., United States.
Received 1986.

PI 556809 **origin:** United States. **origin institute:** Nickerson
American Plant Breeders, Inc.. **cultivar:** AP 3023. **other**
id: PVP 8600057. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 556810 **origin:** United States. **origin institute:** Nickerson
American Plant Breeders, Inc.. **cultivar:** AP 2190. **other**
id: PVP 8600056. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 556811 **origin:** United States. **origin institute:** Nickerson
American Plant Breeders, Inc.. **cultivar:** AP 4321. **other**
id: PVP 8600058. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 556812 to 556816. Glycine max (L.) Merr. FABACEAE

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

PI 556812 **origin:** United States. **origin institute:** Asgrow Seed
Company. **cultivar:** A0949. **other id:** PVP 8600101.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556813 **origin:** United States. **origin institute:** Asgrow Seed
Company. **cultivar:** A7986. **other id:** PVP 8600107.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556814 **origin:** United States. **origin institute:** Asgrow Seed
Company. **cultivar:** A3733. **other id:** PVP 8600141.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556815 **origin:** United States. **origin institute:** Asgrow Seed
Company. **cultivar:** A3511. **other id:** PVP 8600163.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556816 **origin:** United States. **origin institute:** Asgrow Seed
Company. **cultivar:** A3205. **other id:** PVP 8600140.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556817 to 556818. Glycine max (L.) Merr. FABACEAE

Donated by: Helena Chemical Company, United States. Received 1986.

PI 556817 to 556818-continued

PI 556817 **origin:** United States. **origin institute:** Helena Chemical Company. **cultivar:** SAMPSON. **other id:** PVP 8600068. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556818 **origin:** United States. **origin institute:** Helena Chemical Company. **cultivar:** STARR. **other id:** PVP 8600062. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556819. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Terral-Norris Seed Co., Inc., United States. Received 1986.

origin: United States. **origin institute:** Terral-Norris Seed Co., Inc.. **cultivar:** TERRA-VIG 808. **other id:** PVP 8600033. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556820 to 556822. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1986.

PI 556820 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S59-19. **other id:** PVP 8600114. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556821 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** B236. **other id:** PVP 8600146. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556822 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S23-12. **other id:** PVP 8600145. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556823. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Identity Seed and Grain Company, United States. Received 1986.

origin: United States. **origin institute:** Identity Seed and Grain Company. **cultivar:** HAWKSON. **other id:** PVP 8600079. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556824. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bryco, Inc., United States. Received 1986.

origin: United States. **origin institute:** Bryco, Inc..
cultivar: SPARTAN. **other id:** PVP 8600119. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556825. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Cokers Pedigreed Seed Co., Hartsville, South Carolina,
United States. Received 1986.

origin: United States. **origin institute:** Cokers
Pedigreed Seed Co., South Carolina. **cultivar:** COKER 627.
other id: PVP 8700001. **source:** Certificate in force.
group: PVPO. Annual. Cultivar. Seed.

PI 556826. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: FFR Cooperative, Indiana, United States. Received 1986.

origin: United States. **origin institute:** FFR
Cooperative, Indiana. **cultivar:** FFR 561. **other id:** PVP
8700012. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556827. Glycine max (L.) Merr. FABACEAE

Donated by: Cokers Pedigreed Seed Co., Hartsville, South Carolina,
United States. Received 1987.

origin: United States. **origin institute:** Cokers
Pedigreed Seed Co., South Carolina. **cultivar:** COKER 686.
other id: PVP 8700035. **source:** Certificate in force.
group: PVPO. Annual. Cultivar. Seed.

PI 556828. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Delta and Pine Land Company, Mississippi, United States.
Received 1987.

origin: United States. **origin institute:** Delta and Pine
Land Company, Mississippi. **cultivar:** DELTAPINE 675.
other id: PVP 8700056. **source:** Certificate in force.
group: PVPO. Annual. Cultivar. Seed.

PI 556829 to 556832. Glycine max (L.) Merr. FABACEAE

Donated by: Growmark, Inc., United States. Received 1987.

PI 556829 **origin:** United States. **origin institute:** Growmark, Inc..
cultivar: HS 302. **other id:** PVP 8700037. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556830 **origin:** United States. **origin institute:** Growmark, Inc..
cultivar: HS 321. **other id:** PVP 8700038. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556831 **origin:** United States. **origin institute:** Growmark, Inc..
cultivar: HS 339. **other id:** PVP 8700052. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556832 **origin:** United States. **origin institute:** Growmark, Inc..
cultivar: HS 348. **other id:** PVP 8700039. **source:**
Certificate in force. **group:** PVPO. Annual. Cultivar.
Seed.

PI 556833 to 556835. Glycine max (L.) Merr. FABACEAE

Donated by: Jacob Hartz Seed Co., Inc., United States. Received 1987.

PI 556833 **origin:** United States. **origin institute:** Jacob Hartz
Seed Co., Inc.. **cultivar:** HARTZ 7110. **other id:** PVP
8700044. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556834 **origin:** United States. **origin institute:** Jacob Hartz
Seed Co., Inc.. **cultivar:** HARTZ 5164. **other id:** PVP
8700204. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556835 **origin:** United States. **origin institute:** Jacob Hartz
Seed Co., Inc.. **cultivar:** HARTZ 6385. **other id:** PVP
8800008. **source:** Certificate in force. **group:** PVPO.
Annual. Cultivar. Seed.

PI 556836 to 556842. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received 1987.

PI 556836 to 556842-continued

- PI 556836 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9091. **other id:** PVP 8700100. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556837 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9181. **other id:** PVP 8700101. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556838 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9202. **other id:** PVP 8700102. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556839 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9331. **other id:** PVP 8700103. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556840 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9391. **other id:** PVP 8700104. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556841 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9442. **other id:** PVP 8700105. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556842 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9641. **other id:** PVP 8700106. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556843 to 556848. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. **Received** 1987.

- PI 556843 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** B117. **other id:** PVP 8700110. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556844 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S06-57. **other id:** PVP 8700111. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556843 to 556848-continued

- PI 556845 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S29-20. **other id:** PVP 8700113. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556846 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S44-77. **other id:** PVP 8700112. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556847 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** 6727. **other id:** PVP 8700157. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556848 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** 6738. **other id:** PVP 8700158. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556849 to 556852. *Glycine max* (L.) Merr. FABACEAE

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

- PI 556849 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A0358. **other id:** PVP 8700080. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556850 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2234. **other id:** PVP 8700079. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556851 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A4906. **other id:** PVP 8700082. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556852 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A4393. **other id:** PVP 8700184. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556853 to 556855. *Glycine max* (L.) Merr. FABACEAE

Donated by: Nickerson American Plant Breeders, Inc., United States. Received 1987.

PI 556853 to 556855-continued

PI 556853 **origin:** United States. **origin institute:** Nickerson
American Plant Breeders, Inc.. **cultivar:** AP 1776. **other**
id: PVP 8700107. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 556854 **origin:** United States. **origin institute:** Nickerson
American Plant Breeders, Inc.. **cultivar:** AP 3132. **other**
id: PVP 8700108. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 556855 **origin:** United States. **origin institute:** Nickerson
American Plant Breeders, Inc.. **cultivar:** AP 3773. **other**
id: PVP 8700109. **source:** Certificate in force. **group:**
PVPO. Annual. Cultivar. Seed.

PI 556856. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: King Grain, Inc., United States. Received 1987.

origin: United States. **origin institute:** King Grain,
Inc.. **cultivar:** NATTOKING K86. **other id:** PVP 8700191.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556857 to 556861. *Glycine max* (L.) Merr. FABACEAE

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

PI 556857 **origin:** United States. **origin institute:** Asgrow Seed
Company. **cultivar:** A3935. **other id:** PVP 8800043.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556858 **origin:** United States. **origin institute:** Asgrow Seed
Company. **cultivar:** A6297. **other id:** PVP 8800092.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556859 **origin:** United States. **origin institute:** Asgrow Seed
Company. **cultivar:** A3415. **other id:** PVP 8800174.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556860 **origin:** United States. **origin institute:** Asgrow Seed
Company. **cultivar:** A4009. **other id:** PVP 8800175.
source: Certificate in force. **group:** PVPO. Annual.
Cultivar. Seed.

PI 556857 to 556861-continued

PI 556861 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A5403. **other id:** PVP 8800151. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556862 to 556868. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1988.

PI 556862 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** 6847. **other id:** PVP 8800127. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556863 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S21-98. **other id:** PVP 8800144. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556864 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S26-06. **other id:** PVP 8800145. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556865 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S34-19. **other id:** PVP 8800143. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556866 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S36-36. **other id:** PVP 8800142. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556867 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S61-10. **other id:** PVP 8800141. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556868 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S74-40. **other id:** PVP 8800140. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556869 to 556875. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., P.O. Box 748, United States. Received 1988.

PI 556869 to 556875-continued

- PI 556869 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9272. **other id:** PVP 8800164. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556870 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9301. **other id:** PVP 8800165. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556871 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9501. **other id:** PVP 8800166. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556872 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9111. **other id:** PVP 8800158. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556873 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9161. **other id:** PVP 8800159. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556874 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9293. **other id:** PVP 8800160. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556875 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9402. **other id:** PVP 8800161. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556876. Glycine max (L.) Merr. FABACEAE

Donated by: FFR Cooperative, Indiana, United States. Received 1988.

origin: United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 565. **other id:** PVP 8800134. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556877 to 556880. Glycine max (L.) Merr. FABACEAE

Donated by: Dairyland Seed Company, Inc., Wisconsin, United States. Received 1988.

PI 556877 to 556880-continued

- PI 556877 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-128. **other id:** PVP 8800065. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556878 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-135. **other id:** PVP 8800066. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556879 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-155. **other id:** PVP 8800067. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556880 **origin:** United States. **origin institute:** Dairyland Seed Company, Inc., Wisconsin. **cultivar:** DSR-184. **other id:** PVP 8800068. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556881 to 556885. Glycine max (L.) Merr. FABACEAE

Donated by: Nickerson American Plant Breeders, Inc., United States. Received 1988.

- PI 556881 **origin:** United States. **origin institute:** Nickerson American Plant Breeders, Inc.. **cultivar:** AP 2021. **other id:** PVP 8800124. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556882 **origin:** United States. **origin institute:** Nickerson American Plant Breeders, Inc.. **cultivar:** AP 3977. **other id:** PVP 8800125. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556883 **origin:** United States. **origin institute:** Nickerson American Plant Breeders, Inc.. **cultivar:** AP 1650. **other id:** PVP 8900009. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556884 **origin:** United States. **origin institute:** Nickerson American Plant Breeders, Inc.. **cultivar:** AP 1989. **other id:** PVP 8900010. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556885 **origin:** United States. **origin institute:** Nickerson American Plant Breeders, Inc.. **cultivar:** AP 2324. **other id:** PVP 8900011. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556886. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Southern States Cooperative, Inc., United States.
Received 1988.

origin: United States. **origin institute:** Southern States Cooperative, Inc.. **cultivar:** SS 487. **other id:** PVP 8800116. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556887 to 556889. Glycine max (L.) Merr. FABACEAE

Donated by: DeKalb-Pfizer Genetics, United States. Received 1988.

PI 556887 **origin:** United States. **origin institute:** DeKalb-Pfizer Genetics. **cultivar:** CX117. **other id:** PVP 8800186. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556888 **origin:** United States. **origin institute:** DeKalb-Pfizer Genetics. **cultivar:** CX298. **other id:** PVP 8800188. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556889 **origin:** United States. **origin institute:** DeKalb-Pfizer Genetics. **cultivar:** CX458. **other id:** PVP 8800187. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556890 to 556892. Glycine max (L.) Merr. FABACEAE

Donated by: Latham Seed Company, United States. Received 1988.

PI 556890 **origin:** United States. **origin institute:** Latham Seed Company. **cultivar:** 29725K. **other id:** PVP 8800221. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556891 **origin:** United States. **origin institute:** Latham Seed Company. **cultivar:** 34726. **other id:** PVP 8800222. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556892 **origin:** United States. **origin institute:** Latham Seed Company. **cultivar:** 34870. **other id:** PVP 8800223. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556893 to 556894. Glycine max (L.) Merr. FABACEAE

Donated by: Hyperformer Seed Company, United States. Received 1988.

PI 556893 to 556894-continued

PI 556893 **origin:** United States. **origin institute:** Hyperformer Seed Company. **cultivar:** HSC B2J. **other id:** PVP 8800147. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556894 **origin:** United States. **origin institute:** Hyperformer Seed Company. **cultivar:** HSC BALDWIN. **other id:** PVP 8800146. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556895 to 556904. Glycine max (L.) Merr. FABACEAE

Donated by: Northrup King Company, United States. Received 1989.

PI 556895 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S07-80. **other id:** PVP 8900209. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556896 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S17-18. **other id:** PVP 8900210. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556897 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S19-90. **other id:** PVP 8900211. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556898 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S20-26. **other id:** PVP 8900212. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556899 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S30-41. **other id:** PVP 8900213. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556900 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S31-33. **other id:** PVP 8900214. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556901 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** S42-50. **other id:** PVP 8900215. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556902 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** 6925. **other id:** PVP 8900284. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556895 to 556904-continued

PI 556903 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** 6955. **other id:** PVP 8900291. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556904 **origin:** United States. **origin institute:** Northrup King Company. **cultivar:** 6995. **other id:** PVP 8900292. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556905. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: FFR Cooperative, Indiana, United States. Received 1989.

origin: United States. **origin institute:** FFR Cooperative, Indiana. **cultivar:** FFR 398. **other id:** PVP 8900109. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556906 to 556907. Glycine max (L.) Merr. FABACEAE

Donated by: Delta and Pine Land Company, Mississippi, United States. Received 1989.

PI 556906 **origin:** United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DELTAPINE 415. **other id:** PVP 8900087. **source:** Certificate in force. **group:** PVPO. **remarks:** Early to Mid Group V Maturity. Med Plant Height. Large seed = 2700-3200 seed/lb. Oil content 21%, Protein content 42%, Pedigree = Essex X DPX436 (Pickett 71 X York). Annual. Cultivar. Seed.

PI 556907 **origin:** United States. **origin institute:** Delta and Pine Land Company, Mississippi. **cultivar:** DELTAPINE 726. **pedigree:** Deltapine 246/Centennial. **other id:** PVP 8900080. **source:** Certificate in force. **group:** PVPO. **remarks:** Maturity mid Group IV. Plant height medium. Seed small, 3600-3900 seed/lb. Oil content 20%. Protein Content 42%. Annual. Cultivar. Seed.

PI 556908 to 556916. Glycine max (L.) Merr. FABACEAE

Donated by: Pioneer Hi-Bred International, Inc., United States. Received 1989.

PI 556908 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9121. **other id:** PVP 8900172. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556908 to 556916-continued

- PI 556909 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9302. **other id:** PVP 8900173. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556910 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9303. **other id:** PVP 8900174. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556911 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9341. **other id:** PVP 8900175. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556912 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9411. **other id:** PVP 8900176. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556913 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9461. **other id:** PVP 8900177. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556914 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9582. **other id:** PVP 8900178. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556915 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9592. **other id:** PVP 8900179. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556916 **origin:** United States. **origin institute:** Pioneer Hi-Bred International, Inc.. **cultivar:** 9711. **other id:** PVP 8900180. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556917 to 556919. Glycine max (L.) Merr. FABACEAE

Donated by: Jacob Hartz Seed Co., Inc., United States. Received 1989.

- PI 556917 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 6200. **other id:** PVP 8900154. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556917 to 556919-continued

PI 556918 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 6686. **other id:** PVP 8900155. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556919 **origin:** United States. **origin institute:** Jacob Hartz Seed Co., Inc.. **cultivar:** HARTZ 6372. **other id:** PVP 8900264. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556920 to 556924. *Glycine max* (L.) Merr. FABACEAE

Donated by: Growmark, Inc., United States. Received 1989.

PI 556920 **origin:** United States. **origin institute:** Growmark, Inc.. **cultivar:** HS 2455. **other id:** PVP 8900148. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556921 **origin:** United States. **origin institute:** Growmark, Inc.. **cultivar:** HS 266. **other id:** PVP 8900146. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556922 **origin:** United States. **origin institute:** Growmark, Inc.. **cultivar:** HS 2821. **other id:** PVP 8900149. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556923 **origin:** United States. **origin institute:** Growmark, Inc.. **cultivar:** HS 358. **other id:** PVP 8900147. **source:** Application abandoned/withdrawn. **group:** PVPO. Annual. Cultivar. Seed.

PI 556924 **origin:** United States. **origin institute:** Growmark, Inc.. **cultivar:** HS 4011. **other id:** PVP 8900150. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556925 to 556926. *Glycine max* (L.) Merr. FABACEAE

Donated by: King Grain, Inc., United States. Received 1989.

PI 556925 **origin:** United States. **origin institute:** King Grain, Inc.. **cultivar:** K87. **other id:** PVP 8900144. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.

PI 556926 **origin:** United States. **origin institute:** King Grain, Inc.. **cultivar:** TK 89. **other id:** PVP 9000023. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556927 to 556930. *Glycine max* (L.) Merr. FABACEAE

Donated by: Asgrow Seed Company, United States. Received 1989.

- PI 556927 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A1929. **other id:** PVP 8900218. **source:** Certificate in force. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556928 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A3322. **other id:** PVP 8900244. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556929 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A2543. **other id:** PVP 9000007. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556930 **origin:** United States. **origin institute:** Asgrow Seed Company. **cultivar:** A5979. **other id:** PVP 9000008. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556931 to 556932. *Glycine max* (L.) Merr. FABACEAE

Donated by: DeKalb-Pfizer Genetics, United States. Received 1989.

- PI 556931 **origin:** United States. **origin institute:** DeKalb-Pfizer Genetics. **cultivar:** CX329. **other id:** PVP 9000005. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.
- PI 556932 **origin:** United States. **origin institute:** DeKalb-Pfizer Genetics. **cultivar:** CX469c. **other id:** PVP 9000006. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556933. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: E.I. duPont de Nemours and Company, United States. Received 1989.

origin: United States. **origin institute:** E.I. duPont de Nemours and Company. **cultivar:** W 20. **other id:** PVP 9000036. **source:** Pending. **group:** PVPO. Annual. Cultivar. Seed.

PI 556934. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE

Donated by: Wilson, George, North Carolina State University, Raleigh, North Carolina, United States. Received May 02, 1985.

- * *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
origin: Honduras. **cultivar:** CUITZEO. **other id:** C 16078.
other id: SP-1. **other id:** Q 25587. Roots.

PI 556935. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE

Donated by: Delgado, Guillermo, Universidad Nacional Pedro Ruiz Gallo, 8 De Octubra No. 637, Lambayeque, Peru. Received September 05, 1985.

- * *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
origin: Peru. **other id:** C 16679. **other id:** 114. **other id:** Q 25738. Tissue Culture.

PI 556936 to 556941. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet potato

Donated by: AVRDC, P.O. Box 42, Shanhua, Tainan, Taiwan. Received June 30, 1988.

- * PI 556936 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato
donor id: CN 1345-8. **origin:** Taiwan. **other id:** BE-1871.
other id: C20989. **other id:** Q 27158. Tuber.
- * PI 556937 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato
donor id: CN 1421-56. **origin:** Taiwan. **other id:** BE-1871. **other id:** C20989. **other id:** Q 27160. Tuber.
- * PI 556938 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato
donor id: CN 1421-68. **origin:** Taiwan. **other id:** BE-1871. **other id:** C20989. **other id:** Q 27161. Tuber.
- * PI 556939 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato
donor id: CN 1448-49. **origin:** Taiwan. **other id:** BE-1871. **other id:** C20989. **other id:** Q 27162. Tuber.
- * PI 556940 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato
donor id: CN 1489-43. **origin:** Taiwan. **other id:** BE-1871. **other id:** C20989. **other id:** Q 27164. Tuber.
- * PI 556941 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato
donor id: CN 1489-89. **origin:** Taiwan. **other id:** BE-1871. **other id:** C20989. **other id:** Q 27165. Tuber.

PI 556942. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet potato

Donated by: Vazquez, F., USDA-ARS, TARS, Box 70, Mayaguez, Puerto Rico. Received August 08, 1988.

PI 556942-continued

- * Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Sweet potato
origin: Puerto Rico. **cultivar:** SPV-94. **other id:**
BE-1925. **other id:** C21043. **other id:** Q 27228. Cutting.

PI 556943 to 556947. Ipomoea batatas (L.) Lam. CONVOLVULACEAE Sweet potato

Donated by: Tay, D., Genetic Resources Unit, AVRDC, P.O. Box 42, Tainan, Taiwan. Received May 10, 1989.

- * PI 556943 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Sweet potato
donor id: I 423. **origin:** Taiwan. **cultivar:** TAINAN 17.
other id: BE-2335. **other id:** Q 27781. **remarks:** Plants prostrate. Roots pink, 27% dry matter. Flesh pale yellow. Texture dry after cooking. Suitable for cool-dry season (28 t/ha as compared to 11 in hot-wet season). Starch-type. Cultivar. Tissue Culture.
- * PI 556944 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Sweet potato
donor id: CN 1028-15. **origin:** Taiwan. **other id:** BE-2335. **other id:** Q 27782. **remarks:** Maturity early. Plants semi-prostrate. Roots red, 24% dry matter. Flesh orange with yellow. Texture slightly dry after cooking. Suitable for hot-wet or cool-dry season (30 t/ha). Cultivated. Tissue Culture.
- * PI 556945 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Sweet potato
donor id: CN 1058-10. **origin:** Taiwan. **other id:** BE-2335. **other id:** Q 27783. **remarks:** Plants semi-erect. Roots red, 22% dry matter. Flesh deep orange. Texture slightly dry after cooking. Suitable in hot-wet (20 t/ha) or cool-dry season (18 t/ha). Dessert-type. Cultivated. Tissue Culture.
- * PI 556946 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Sweet potato
donor id: CN 1280-3. **origin:** Taiwan. **other id:** BE-2335. **other id:** Q 27787. **remarks:** Plants erect. Roots light brown, 27% dry matter. Flesh yellow. Texture dry after cooking. Suitable for cool-dry season (23 t/ha as compared to 14 for hot-wet season). Cultivated. Tissue Culture.

PI 556943 to 556947-continued

- * PI 556947 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato
donor id: CN 1367-2. origin: Taiwan. other id: BE-2335.
other id: Q 27789. remarks: Plants prostrate. Leaves
yellow green with tender texture. Tips usable as
vegetable green. Suitable for wet and dry seasons.
Cultivated. Tissue Culture.

PI 556948 to 556950. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Yunzhu, Hu, Nanjing Agricultural University, Soybean
Institute, Department of Agronomy, Nanjing, Jiangsu, China.
Received May 1990.

PI 556948 origin: China. origin institute: Nanjing Agricultural
University, Soybean Institute, Department of Agronomy,
Nanjing, Jiangsu. cultivar: Da bai ma. Annual.
Cultivated. Seed.

PI 556949 origin: China. origin institute: Nanjing Agricultural
University, Soybean Institute, Department of Agronomy,
Nanjing, Jiangsu. cultivar: Ke feng No.1. Annual.
Cultivated. Seed.

PI 556950 origin: China. origin institute: Nanjing Agricultural
University, Soybean Institute, Department of Agronomy,
Nanjing, Jiangsu. cultivar: Xu dou No.1. Annual.
Cultivated. Seed.

PI 556951 to 556952. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Rao, K.E.P., Genetic Resources Unit, ICRISAT,
Patancheru, Andhra Pradesh, India. Received September 11, 1991.

PI 556951 donor id: IS 5604. origin: India. cultivar: ALLU JOLA.
other id: JAWARGI. source: Lit ref: Euphytica 37:5-8
1988. locality: Gulbarga. remarks: Popping quality
excellent. Cultivar. Seed.

PI 556952 donor id: IS 25131. origin: India. cultivar: SPV 351.
other id: ISCV-1. source: Lit ref: Euphytica 37:5-8 1988.
remarks: Popping quality moderate. Cultivar. Seed.

PI 556953. *Paspalum notatum* Fluegge POACEAE Bahiagrass

Donated by: Kagoshima Prefecture Agric. Exp. Sta., Kagoshima, Japan.
Received October 16, 1991.

origin: Japan. **origin institute:** Kagoshima Pref. Agr. Exp. Sta., Kagoshima. **cultivar:** NAN-OU. **pedigree:** Mass selection from PI 284172. **remarks:** Apomictic tetraploid cultivar with $2n=40$. Compared with Nan-goku, a sexual diploid cultivar, wider leaves, lower in plant height and number of heads at harvests, and more palatable. Produced more forage than Nan-goku in summer and fall. Well adapted to the southern parts of Kagoshima and Miyazaki Prefecture, and Okinawa Prefecture. Cultivar. Seed.

PI 556954. *Hordeum vulgare* L. POACEAE Barley

Donated by: Suneson, C.A., Agricultural Research Service -- USDA, Crops Research Division, Beltsville, Maryland, United States; and California Agr. Exp. Sta. Received October 17, 1991.

origin: United States. **historical origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Crops Research Division, Beltsville, Maryland 20705. **cultivar:** CC XXI. **pedigree:** Composite cross. **other id:** GP-9. **source:** Crop Sci. 9(3):395-396 1969. **group:** CSR-BARLEY. **other id:** Calif. F8. **remarks:** Diverse gene pool of spring barley to produce potential varieties, valuable parental lines, and for studies of population genetics and breeding methods. Spring Annual. Breeding Material. Seed.

PI 556955. *Hordeum vulgare* L. POACEAE Barley

Donated by: Reid, D.A., Agricultural Research Service -- USDA, Crops Research Division, Beltsville, Maryland, United States; and New York Agr. Exp. Sta.; and Arizona Agr. Exp. Sta. Received October 17, 1991.

origin: United States. **historical origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Crops Research Division, Beltsville, Maryland 20705. **cultivar:** CC XXVII. **pedigree:** Composite cross. **other id:** GP-11. **source:** Crop Sci. 11(2):313-314 1971. **group:** CSR-BARLEY. **remarks:** Diverse gene pool of winter barley containing infinite number of combinations of characteristics. Valuable potential for any winter barley-growing area. Spring Annual. Breeding Material. Seed.

PI 556956. *Hordeum vulgare* L. POACEAE Barley

Donated by: Reid, D.A., Agricultural Research Service -- USDA, Crops Research Division, Beltsville, Maryland, United States; and Arizona Agr. Exp. Sta. Received October 17, 1991.

origin: United States. **historical origin:** United States.
origin institute: Agricultural Research Service -- USDA, Crops Research Division, Beltsville, Maryland 20705.
cultivar: CC XXIX. **pedigree:** Belownee, Brachytic, Deba Abed, Indian Dwarf, Jaybel, Jaydee, Jotun, Purd. 609A2-1, Tex. 68C710, CI 8256, CI 8992, CI 10680, CI 10549, CI 4284, and CI 12140. **other id:** GP-18. **source:** Crop Sci. 16(2):313 1976. **group:** CSR-BARLEY. **remarks:** Diverse gene pool with possible new combinations of short straw or semidwarf plant types. Parents in this composite cross were predominately winter growth habit with several spring parents included. Thus the composite can be used for selecting either spring or winter types. In most cases, tall is dominant over short. Breeding Material. Seed.

PI 556957 to 556963. *Hordeum vulgare* L. POACEAE Barley

Donated by: Ramage, R.T., Agricultural Research Service -- USDA, Beltsville, Maryland, United States; and Arizona Agr. Exp. Sta.; and Idaho Agr. Exp. Sta. Received October 17, 1991.

PI 556957 **origin:** United States. **historical origin:** United States.
origin institute: Agricultural Research Service -- USDA, Beltsville, Maryland 20705. **cultivar:** CC XXX-A.
pedigree: Composite cross XXX F2 seed. Mixture of F2 seed of 3 original populations. **other id:** GP-20. **source:** Crop Sci. 16(2):314 1976. **group:** CSR-BARLEY. **remarks:** Composite cross populations will segregate for wide range of characters and for ability to cross pollinate. Useful for cross pollination under many environmental conditions. Breeding Material. Seed.

PI 556958 **origin:** United States. **historical origin:** United States.
origin institute: Agricultural Research Service -- USDA, Beltsville, Maryland 20705. **cultivar:** CC XXX-B.
pedigree: Composite cross XXX F3 seed. Next generation from CC XXX-A. **other id:** GP-21. **source:** Crop Sci. 16(2):314 1976. **group:** CSR-BARLEY. **remarks:** Composite cross populations will segregate for wide range of characters and for ability to cross pollinate. Useful for cross pollination under many environmental conditions. Breeding Material. Seed.

PI 556957 to 556963-continued

- PI 556959 **origin:** United States. **historical origin:** United States.
origin institute: Agricultural Research Service -- USDA,
Beltsville, Maryland 20705. **cultivar:** CC XXX-C.
pedigree: Composite cross XXX F1 Sib10 F2 seed. First
one-half of spring barleys grown alternately at Mesa and
Aberdeen in same year. **other id:** GP-22. **source:** Crop
Sci. 16(2):314 1976. **group:** CSR-BARLEY. **remarks:**
Composite cross populations will segregate for wide range
of characters and for ability to cross pollinate. Useful
for cross pollination under many environmental
conditions. Breeding Material. Seed.
- PI 556960 **origin:** United States. **historical origin:** United States.
origin institute: Agricultural Research Service -- USDA,
Beltsville, Maryland 20705. **cultivar:** CC XXX-D.
pedigree: Composite cross XXX F1 Sib3 seed. From mixture
of Sib2 F2 seed of the 3 populations grown at Mesa.
other id: GP-23. **source:** Crop Sci. 16(2):314 1976.
group: CSR-BARLEY. **remarks:** Composite cross populations
will segregate for wide range of characters and for
ability to cross pollinate. Useful for cross pollination
under many environmental conditions. Breeding Material.
Seed.
- PI 556961 **origin:** United States. **historical origin:** United States.
origin institute: Agricultural Research Service -- USDA,
Beltsville, Maryland 20705. **cultivar:** CC XXX-E.
pedigree: Composite cross XXX F1 Sib3 seed. From 2-rowed
plants selected from the 3 populations. **other id:** GP-24.
source: Crop Sci. 16(2):314 1976. **group:** CSR-BARLEY.
remarks: Composite cross populations will segregate for
wide range of characters and for ability to cross
pollinate. Useful for cross pollination under many
environmental conditions. Breeding Material. Seed.
- PI 556962 **origin:** United States. **historical origin:** United States.
origin institute: Agricultural Research Service -- USDA,
Beltsville, Maryland 20705. **cultivar:** CC XXX-F.
pedigree: Composite cross XXX F1 Sib5 F2 and F1 Sib4 F2
seed. From mixture of Sib5 F2 seed of the first one-half
of the spring barleys and Sib4 F2 of the second one-half
of the spring barleys grown at Bozeman. **other id:** GP-25.
source: Crop Sci. 16(2):314 1976. **group:** CSR-BARLEY.
remarks: Composite cross populations will segregate for
wide range of characters and for ability to cross
pollinate. Useful for cross pollination under many
environmental conditions. Breeding Material. Seed.

PI 556963 **origin:** United States. **historical origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Beltsville, Maryland 20705. **cultivar:** CC XXX-G. **pedigree:** Composite cross XXX F1 Sib4 F2 seed. From mixture of Sib2 F2 of the three populations grown at Aberdeen. **other id:** GP-26. **source:** Crop Sci. 16(2):314 1976. **group:** CSR-BARLEY. **remarks:** Composite cross populations will segregate for wide range of characters and for ability to cross pollinate. Useful for cross pollination under many environmental conditions. Breeding Material. Seed.

PI 556964 to 556967. *Hordeum vulgare* L. POACEAE Barley

Donated by: Moseman, J.G., Agricultural Research Service -- USDA, Plant Genetics and Germplasm Inst., Beltsville, Maryland, United States. Received October 17, 1991.

PI 556964 **origin:** United States. **historical origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Plant Genetics and Germplasm Inst., Beltsville, Maryland 20705. **cultivar:** CC XXXV. **pedigree:** Composite cross of male lines having excellent disease resistance and female lines that were genetically male-sterile. Equal mixture of F2 seed that went into CC XXXV-A, XXXV-B, and XXXV-C. **other id:** GP-27. **source:** Crop Sci. 19(5):750-751 1979. **group:** CSR-BARLEY. **remarks:** Wide range of characteristics. Broad spectrum of disease resistance genes. Recommended in areas where multiple disease resistance is needed. Breeding Material. Seed.

PI 556965 **origin:** United States. **historical origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Plant Genetics and Germplasm Inst., Beltsville, Maryland 20705. **cultivar:** CC XXXV-A. **pedigree:** Composite cross of male lines having excellent disease resistance and female lines that were genetically male-sterile. Mixture of 25 sources of leaf rust resistance. **other id:** GP-28. **source:** Crop Sci. 19(5):750-751 1979. **group:** CSR-BARLEY. **remarks:** Wide range of characteristics. Broad spectrum of disease resistance genes. Breeding Material. Seed.

PI 556964 to 556967-continued

PI 556966 **origin:** United States. **historical origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Plant Genetics and Germplasm Inst., Beltsville, Maryland 20705. **cultivar:** CC XXXV-B. **pedigree:** Composite cross of male lines having excellent disease resistance and female lines that were genetically male-sterile. Mixture of 52 sources of powdery mildew resistance. **other id:** GP-29. **source:** Crop Sci. 19(5):750-751 1979. **group:** CSR-BARLEY. **remarks:** Wide range of characteristics. Broad spectrum of disease resistance genes. Breeding Material. Seed.

PI 556967 **origin:** United States. **historical origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Plant Genetics and Germplasm Inst., Beltsville, Maryland 20705. **cultivar:** CC XXXV-C. **pedigree:** Composite cross of male lines having excellent disease resistance and female lines that were genetically male-sterile. Mixture of 17 sources of scald resistance. **other id:** GP-30. **source:** Crop Sci. 19(5):750-751 1979. **group:** CSR-BARLEY. **remarks:** Wide range of characteristics. Broad spectrum of disease resistance genes. Breeding Material. Seed.

PI 556968 to 556969. *Hordeum vulgare* L. POACEAE Barley

Donated by: Thompson, R.K., Arizona Agr. Exp. Sta., University of Arizona, Mesa, Arizona, United States; and Agricultural Research Service -- USDA. Received October 17, 1991.

PI 556968 **origin:** United States. **historical origin:** United States. **origin institute:** Arizona Agr. Exp. Sta., University of Arizona, Mesa, Arizona 85721. **cultivar:** CC XXXIII-A. **pedigree:** Composite cross. **other id:** GP-31. **source:** Crop Sci. 19(6):931-932 1979. **group:** CSR-BARLEY. **remarks:** Diverse gene pool with sources of resistance to barley yellow dwarf virus (BYDV). Spring Annual. Breeding Material. Seed.

PI 556969 **origin:** United States. **historical origin:** United States. **origin institute:** Arizona Agr. Exp. Sta., University of Arizona, Mesa, Arizona 85721. **cultivar:** CC XXXIII-B. **pedigree:** Composite cross. **other id:** GP-32. **source:** Crop Sci. 19(6):931-932 1979. **group:** CSR-BARLEY. **remarks:** Diverse gene pool with sources of resistance to barley yellow dwarf virus (BYDV). Spring Annual. Breeding Material. Seed.

PI 556970. *Hordeum vulgare* L. POACEAE Barley

Donated by: Reid, D.A., Agricultural Research Service -- USDA, Small Grains Collection, Beltsville, Maryland, United States; and Arizona Agr. Exp. Sta.. Received October 17, 1991.

origin: United States. **historical origin:** United States.
origin institute: Agricultural Research Service -- USDA, Small Grains Collection, Beltsville, Maryland 20705.
cultivar: CC XXXIV. **pedigree:** Composite cross of diverse gene pool made up of segregates from all known available lines tolerant to aluminum and/or acid soils. **other id:** GP-33. **source:** Crop Sci. 20(3):416-417 1980. **group:** CSR-BARLEY. **remarks:** Population will segregate for the following traits: male sterility and male fertility; 2- and 6-rowed spikes; hulled and naked caryopses; awned, awnleted and hooded lemmas; white and blue aleurone; rough and smooth awns; black and white lemmas and paleas; winter, facultative and spring growth habit; and a wide range of maturity dates and spike densities. Seed may be planted in fall or spring, depending. Breeding Material. Seed.

PI 556971 to 556972. *Hordeum vulgare* L. POACEAE Barley

Donated by: Baenziger, P.S., Agricultural Research Service -- USDA, Plant Genetics and Germplasm Inst., Beltsville, Maryland, United States. Received October 17, 1991.

PI 556971 **origin:** United States. **historical origin:** United States.
origin institute: Agricultural Research Service -- USDA, Plant Genetics and Germplasm Inst., Beltsville, Maryland 20705. **cultivar:** CC XXXVII-A. **pedigree:** Composite cross between 19 male lines of *H. spontaneum* having excellent disease resistance to leaf rust, powdery mildew, scald, and female lines that were genetic male sterile stocks 124 and 128. **other id:** GP-55. **source:** Crop Sci. 21(2):351-352 1981. **group:** CSR-BARLEY. **remarks:** Composite cross populations will segregate for wide range of characters. Broad spectrum of disease resistance genes. Breeding Material. Seed.

PI 556971 to 556972-continued

PI 556972 **origin:** United States. **historical origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Plant Genetics and Germplasm Inst., Beltsville, Maryland 20705. **cultivar:** CC XXXVII-B. **pedigree:** Composite cross between 19 male lines of *H. spontaneum* having excellent disease resistance to leaf rust, powdery mildew, and scald and female lines that were genetic male sterile stocks 124 and 128. **other id:** GP-56. **source:** Crop Sci. 21(2):351-352 1981. **group:** CSR-BARLEY. **remarks:** Composite cross populations will segregate for wide range of characters. Broad spectrum of disease resistance genes. Breeding Material. Seed.

PI 556973 to 556975. *Trifolium* hybrid FABACEAE

Donated by: Taylor, N.L., Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky, United States. Received October 21, 1991.

PI 556973 **origin:** United States. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky 40546. **pedigree:** *Trifolium pratense* / *T. diffusum* PI 204517. **other id:** GP-3. **source:** Crop Sci. 13(6):777 1973. **group:** CSR-OTHER LEGUMES. **remarks:** Vegetative characteristics intermediate between parents. Flower color light to medium red. Seeds kidney shaped, colored similarly to *T. pratense*. Naturally cross-pollinated, but will set more seeds by selfing than normal. Growth habit annual. Nonwinterhardy in Lexington, KY. May be grown as a winter annual in the extreme southeastern U.S. Breeding Material. Seed.

PI 556974 **origin:** United States. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky 40546. **pedigree:** *Trifolium sarosiense* (PI 292827) / 4XT. *alpestre* (PI 314116). **other id:** GP-9. **source:** Crop Sci. 18(6):1102 1978. **group:** CSR-OTHER LEGUMES. **remarks:** Pollen stainability ranges from 41-73, with mean of 63% as contrasted to parental species which show excess of 90%. Flower color purple. Heads elongated. Some exhibited chlorosis. Self-incompatible. Seeds are kidney shaped and similar size as parents. Doubtful any agronomic value due to low seed set, but may be of value for further interspecific research involving red clover. Breeding Material. Seed.

PI 556973 to 556975-continued

PI 556975 **origin:** United States. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, Lexington, Kentucky 40546. **pedigree:** *Trifolium medium* (PI 186574) / *T. sarosense* (PI 292827). **other id:** GP-10. **source:** Crop Sci. 18(6):1102 1978. **group:** CSR-OTHER LEGUMES. **remarks:** Male and female fertile. Self-incompatible. Pollen stainability ranges from 80-96, averages 89%. Vegetative characteristics intermediate between parents. Flowers purple. Heads globose. Perennial and show rhizomatous growth habit. Seeds yellowish-brown, kidney shaped, and weigh approx. 27mg per 10 seeds. Breeding Material. Seed.

PI 556976 to 556977. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: LaMondia, J.A., Connecticut Agr. Exp. Sta., Valley Laboratory, Windsor, Connecticut, United States. **remarks:** C8 and C9 Broadleaf Tobacco. Received October 23, 1991.

PI 556976 **origin:** United States. **origin institute:** Connecticut Agr. Exp. Sta., Valley Laboratory, P.O. Box 248, Windsor, Connecticut 06095. **cultivar:** C8. **pedigree:** C2 / Winn broadleaf - F2 selection inbred through the F7 generation. **other id:** CV-103. **group:** CSR-TOBACCO. **remarks:** Connecticut broadleaf wrapper tobacco type developed with resistance to fusarium wilt (*Fusarium oxysporum*) and tobacco mosaic virus. Wilt resistance conferred by the 'C2' parent and mosaic virus resistance derives from *Nicotiana glutinosa* resistance incorporated into 'Kentucky MN', a progenitor of C2. Wilt resistance expressed in reduced wilt incidence and severity in greenhouse screens and in field soils naturally. Facultative Annual. Breeding Material. Seed.

PI 556977 **origin:** United States. **origin institute:** Connecticut Agr. Exp. Sta., Valley Laboratory, P.O. Box 248, Windsor, Connecticut 06095. **cultivar:** C9. **pedigree:** C2 / Sperry broadleaf - F2 selection inbred through the F7 generation. **other id:** CV-104. **group:** CSR-TOBACCO. **remarks:** Connecticut broadleaf wrapper tobacco type developed with resistance to fusarium wilt (*Fusarium oxysporum*) and tobacco mosaic virus. Wilt resistance conferred by the 'C2' parent and mosaic virus resistance derives from *Nicotiana glutinosa* resistance incorporated into 'Kentucky MN', a progenitor of C2. Wilt resistance expressed in reduced wilt incidence and severity in greenhouse screens and in field soils naturally. Facultative Annual. Breeding Material. Seed.

PI 556978 to 556979. *Gossypium hirsutum* L. MALVACEAE Upland cotton

Donated by: Bourland, F.M., Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, Mississippi State, Mississippi, United States; and Arkansas Agr. Exp. Sta.. **remarks:** Miscot 7801 and 7824 Cotton Germplasms. Received October 23, 1991.

PI 556978 **origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, Mississippi State, Mississippi 39762. **cultivar:** MISCOT 7801. **pedigree:** Des 24/Des 56. **other id:** GP-506. **group:** CSR-COTTON. **remarks:** Maturity early. Combining ability very good. Morphological characteristics, yield maturity, and fiber properties very similar to Des 56. Partial resistance to fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) and to tobacco budworm (*Heliothis virescens*). Perennial. Breeding Material. Seed.

PI 556979 **origin:** United States. **historical origin:** United States. **origin institute:** Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, Mississippi State, Mississippi 39762. **cultivar:** MISCOT 7824. **pedigree:** Delcot 277J / TX LE-68-73. **other id:** GP-507. **group:** CSR-COTTON. **remarks:** Maturity early. Combining ability very good. Morphological and fiber characteristics similar to Delcot 277J. Maturity earlier and better adapted to environments of south Arkansas and Mississippi than Delcot 277J. Partial resistance to fusarium wilt (*Fusarium oxysporum* f. sp. *vesinfectum*) and to tobacco budworm (*Heliothis virescens*). Resistant to all known U.S. Perennial. Breeding Material. Seed.

PI 556980. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Williams, P., Agricultural Research Service -- USDA, Crop Science Research Laboratory, Mississippi State, Mississippi, United States. **remarks:** No Certificate Requested. Received October 23, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5248, Mississippi State, Mississippi 39762. **cultivar:** Mp420. **pedigree:** Mpl / Hill Yellow Dent, S3. **other id:** GP-235. **group:** CSR-MAIZE. **remarks:** Full season inbred (AES 1100). Plants tall, medium green color. Kernels yellow, flinty with sharp pointed cap. Cobs white. Moderately resistant to kernel infection by *Aspergillus flavus*. Susceptible to maize chlorotic dwarf virus and maize dwarf mosaic virus. Annual. Breeding Material. Seed.

PI 556981 to 556986. *Triticum turgidum* L. POACEAE Durum wheat

Donated by: McCaig, T.N., Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan, Canada. **remarks:** Six Glaucous/Nonglaucous Wheat Germplasms. Received October 23, 1991.

PI 556981 **origin:** Canada. **origin institute:** Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan S9H 3X2. **cultivar:** 8261-AC2-G. **pedigree:** G3028 / 2*DT367. **other id:** GS-1. **group:** CSR-WHEAT. **remarks:** One of a pair of isolines that consists of a glaucous (G) and nonglaucous (NG) (8261-AC2-NG) genotype. Displays waxy-bloom on flag leaves and sheathes, stem, and spike structures. Visible glaucous character positively correlated with total epicuticular wax and positively correlated with grain yield. Isolines medium high in durum pigment and medium strong in gluten strength. Spring Annual. Breeding Material. Seed.

PI 556982 **origin:** Canada. **origin institute:** Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan S9H 3X2. **cultivar:** 8261-AC2-NG. **pedigree:** G3028 / 2*DT367. **other id:** GS-2. **group:** CSR-WHEAT. **remarks:** One of a pair of isolines that consists of a glaucous (G) (8261-AC2-G) and nonglaucous (NG) genotype. Glaucous line 8261-AC2-G displays waxy-bloom on flag leaves and sheathes, stem, and spike structures. Visible glaucous character is positively correlated with total epicuticular wax and positively correlated with grain yield. Isolines medium high in durum pigment and medium strong in gluten strength. Spring Annual. Breeding Material. Seed.

PI 556983 **origin:** Canada. **origin institute:** Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan S9H 3X2. **cultivar:** 8261-BN3-G. **pedigree:** G3028 / 2*DT367. **other id:** GS-3. **group:** CSR-WHEAT. **remarks:** One of a pair of isolines that consists of a glaucous (G) and nonglaucous (NG) (8261-BN3-NG) genotype. Displays waxy-bloom on flag leaves and sheathes, stem, and spike structures. Visible glaucous character is positively correlated with total epicuticular wax and positively correlated with grain yield. Isolines medium high in durum pigment and medium strong in gluten strength. Spring Annual. Breeding Material. Seed.

PI 556981 to 556986-continued

- PI 556984 **origin:** Canada. **origin institute:** Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan S9H 3X2. **cultivar:** 8261-BN3-NG. **pedigree:** G3028 / 2*DT367. **other id:** GS-4. **group:** CSR-WHEAT. **remarks:** One of a pair of isolines that consists of a glaucous (G) (8261-BN3-G) and nonglauous (NG) genotype. 8261-BN3-G displays waxy-bloom on flag leaves and sheathes, stem, and spike structures. Visible glaucous character is positively correlated with total epicuticular wax and positively correlated with grain yield. Isolines medium high in durum pigment and medium strong in gluten strength. Spring Annual. Breeding Material. Seed.
- PI 556985 **origin:** Canada. **origin institute:** Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan S9H 3X2. **cultivar:** 8262-AR3-G. **pedigree:** G3059 / 2*DT367. **other id:** GS-5. **group:** CSR-WHEAT. **remarks:** One of a pair of isolines that consists of a glaucous (G) and nonglauous (NG) (8262-AR3-NG) genotype. Has nonglauous spike structures. Visible glaucous character is positively correlated with total epicuticular wax and positively correlated with grain yield. Isolines medium high in durum pigment and medium strong in gluten strength. Spring Annual. Breeding Material. Seed.
- PI 556986 **origin:** Canada. **origin institute:** Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan S9H 3X2. **cultivar:** 8262-AR3-NG. **pedigree:** G3059 / 2*DT367. **other id:** GS-6. **group:** CSR-WHEAT. **remarks:** One of a pair of isolines that consists of a glaucous (G) (8262-AR3-G) and nonglauous (NG) genotype. 8262-AR3-G has nonglauous spike structures. Visible glaucous character is positively correlated with total epicuticular wax and positively correlated with grain yield. Isolines medium high in durum pigment and medium strong in gluten strength. Spring Annual. Breeding Material. Seed.

PI 556987. *Elytrigia intermedia* (Host) Nevski POACEAE Intermediate wheatgrass

Donated by: Berdahl, J.D., Agricultural Research Service -- USDA, Northern Great Plains Research Lab, Mandan, North Dakota, United States; and Soil Conservation Service -- USDA; and North Dakota Agr. Exp. Sta.. **remarks:** Reliant Intermediate Wheatgrass. Received October 23, 1991.

PI 556987-continued

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Northern Great Plains Research Lab., Mandan, North Dakota 58554. **cultivar:** RELIANT. **pedigree:** Six-clone synthetic, traces to a source population of 2500 plants derived by intermating plants from 24 cultivars and experimental strains and bulking equal quantities of seed from each parent plant. **other id:** Mandan 11813. **other id:** CV-20. **group:** CSR-WHEATGRASS. **remarks:** Recommended in mixtures with alfalfa for hay in regions of the Northern Great Plains where annual precipitation averages more than 350mm. Moderate to good resistance to leaf-spot and root-rot caused primarily by *Cochliobolus sativus*. Forage and seed yields high in regional tests, particularly in long-term tests of over 3 years. In vitro digestibility at anthesis averaged 618g. **received as:** *Thinopyrum intermedium*. Perennial. Cultivar. Seed.

PI 556988. *Psathyrostachys juncea* (Fischer) Nevski POACEAE Russian wildrye

Donated by: Berdahl, J.D., Agricultural Research Service -- USDA, Northern Great Plains Research Lab, Mandan, North Dakota, United States; and Soil Conservation Service -- USA; and North Dakota Agr. Exp. Sta.. **remarks:** Mankota Russian Wildrye. Received October 23, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USA, Northern Great Plains Research Lab., Mandan, North Dakota 58554. **cultivar:** MANKOTA. **pedigree:** Six-clone synthetic, traces to a source population of 29 different cultivars, experimental strains, and plant introductions. Parent clones were selected from PI 314675, Mandan Bulk Population 34, and PI 272136. **other id:** Mandan R1808. **other id:** CV-149. **group:** CSR-OTHER GRASSES. **remarks:** Recommended for complimentary pasture from late summer to early winter in the Northern Great Plains when nutritive quality of Russian wildrye is relatively high. Plant height averaged approximately 25cm taller and heading and anthesis dates approximately 2 days later than other current cultivars. Moderate resistance to *Septoria spraguei*, the most prevalent pathogen causing leaf-spot disease. Forage. Perennial. Cultivar. Seed.

PI 556989. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Fioritto, R.J., Ohio Agr. Res. & Dev. Ctr., Ohio State University, Wooster, Ohio, United States. **remarks:** HM1 Soybean Germplasm. Received October 23, 1991.

PI 556989-continued

origin: United States. **origin institute:** Ohio Agr. Res. & Dev. Ctr., Ohio State University, Wooster, Ohio 44691-4096. **cultivar:** HML. **pedigree:** Ripley / Harper. **other id:** GP-134. **group:** CSR-SOYBEAN. **remarks:** Early Maturity Group III (adapted 39-41 deg. N lat.). Indeterminate line with tawny pubescence. Seed size average. Same root resistant reaction as Ripley to *Phytophthora megasperma*. Similar protein and oil content as Ripley. Superior to Ripley as source of resistance in crosses to develop indeterminate cultivars of Groups IV and earlier. Spring Annual. Breeding Material. Seed.

PI 556990. *Trifolium incarnatum* L. FABACEAE Crimson clover

Donated by: Knight, W.E., Agricultural Research Service -- USDA, Plant Science Research Division, State College, Mississippi, United States; and Mississippi Agr. and Forestry Exp. Sta.. Received October 25, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, State College, Mississippi 39762-5367. **cultivar:** TIBBEE. **pedigree:** Seven cycles of natural selection from PI 233812 for hard seeded and reseeding characteristics. **other id:** CV-4. **source:** Crop Sci. 12:126 1972. **group:** CSR-CLOVER, CRIMSON. **remarks:** Maturity early. Seedling vigor and fall and winter growth superior. Forage and seed yields high. Seed large. Able to reseed under the environmental conditions of the Southeastern U.S. Winter Annual. Cultivar. Seed.

PI 556991. *Trifolium repens* L. FABACEAE White clover

Donated by: Sonmor, L.G., Research Station, Agriculture Canada, Melfort, Saskatoon, Canada. Received October 25, 1991.

origin: Canada. **origin institute:** Research Station, Agriculture Canada, Melfort, Saskatoon S0E 1A0. **cultivar:** ML-48-65. **pedigree:** Three of 15 introductions from USSR. **other id:** GP-8. **source:** Crop Sci. 17:189 1977. **group:** CSR-OTHER LEGUMES. **remarks:** Very winter-hardy. Able to withstand close mowing or grazing. Growth type medium-large. Survival long and yield good at Melfort, Saskatchewan. Perennial. Breeding Material. Seed.

PI 556992. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Nigam, S.N., ICRISAT, Patancheru P.O., Andhra Pradesh, India. **remarks:** ICGV 87157 Groundnut (Peanut). Received October 28, 1991.

origin: India. **historical origin:** India. **origin institute:** ICRISAT, Patancheru P.O., Andhra Pradesh 502 324. **cultivar:** ICGV 87157. **pedigree:** Argentine/PI 259747. **other id:** GP-56. **group:** CSR-PEANUT. **remarks:** Spanish type with erect growth habit. Flowering sequential. Leaves medium to medium-large, elliptic light green. Maturity 110 days, 64% meat. Pods 2-seeded, slight to prominent ridges, and moderate reticulation. Seed tan, 100-seed mass of 42g, contain 48% oil and 25% protein. Resistant to rust and tolerant to late leaf spot. Tolerant of bud necrosis and stem and pod rots caused by Sclerotium. Spring Annual. Breeding Material. Seed.

PI 556993. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by: W. Weibull AB, Sweden. Received October 28, 1991.

origin: Sweden. **origin institute:** W. Weibull AB. **cultivar:** APEX. **other id:** PVP 9100271. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 556994. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE Watermelon

Donated by: Alabama Agr. Exp. Sta., Alabama, United States. Received October 28, 1991.

origin: United States. **origin institute:** Alabama Agr. Exp. Sta., Alabama. **cultivar:** AU-SWEET SCARLET. **other id:** PVP 9200001. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 556995. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE Watermelon

Donated by: Alabama Agr. Exp. Sta., Alabama, United States. Received October 28, 1991.

origin: United States. **origin institute:** Alabama Agr. Exp. Sta., Alabama. **cultivar:** AU-GOLDEN PRODUCER. **other id:** PVP 9200002. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 556996. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received October 28, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** S 33-32. **other id:** PVP 9200003.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 556997. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received October 28, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** S 39-11. **other id:** PVP 9200004.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 556998. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Central Valley Seeds, Inc., United States. Received October 28, 1991.

origin: United States. **origin institute:** Central Valley Seeds, Inc.. **cultivar:** ARIZONA 90. **other id:** PVP 9200005. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 556999. *Hordeum vulgare* L. POACEAE Barley

Donated by: Utah Agr. Exp. Sta., Utah, United States. Received October 28, 1991.

origin: United States. **origin institute:** Utah Agr. Exp. Sta., Utah. **cultivar:** ROLLO. **other id:** PVP 9200006.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 557000. *Hordeum vulgare* L. POACEAE Barley

Donated by: Utah Agr. Exp. Sta., Utah, United States. Received October 28, 1991.

origin: United States. **origin institute:** Utah Agr. Exp. Sta., Utah. **cultivar:** WALKER. **other id:** PVP 9200007.
source: Pending. **group:** PVPO. Cultivar. Seed.

PI 557001. *Festuca rubra* L. POACEAE Fescue red

Donated by: James M. Stewart, Inc./Conserva Seed, United States.
Received October 28, 1991.

origin: United States. **origin institute:** James M. Stewart, Inc./Conserva Seed. **cultivar:** MOLATE BLUE.
other id: PVP 9200008. **source:** Pending. **group:** PVPO.
Cultivar. Seed.

PI 557002. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Dunn Seed Farms, Inc., United States. Received October 28, 1991.

origin: United States. **origin institute:** Dunn Seed Farms, Inc.. **cultivar:** DUNN-1850. **other id:** PVP 9200009. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557003. *Nicotiana tabacum* L. SOLANACEAE

Donated by: Keller, K.R., Virginia Agr. Exp. Sta., Virginia, United States. Received October 10, 1991.

origin: United States. **origin institute:** Virginia Agr. Exp. Sta., Virginia. **cultivar:** VIRGINIA 45. **pedigree:** Virginia Gold / Vamorr 50. **other id:** CV-8. **source:** Agron. J. 50(11):712 1958. **group:** CSR-TOBACCO.
remarks: Resembles Virginia Gold in appearance, growth habits and leaf characteristics, but yields somewhat less. Resistance high to tobacco mosaic and root rot. Yields and acre values good. Leaf quality similar to Virginia Gold. Nicotine and sugar content same for both varieties. Cultivar. Seed.

PI 557004 to 557005. *Nicotiana tabacum* L. SOLANACEAE

Donated by: Henderson, R.G., Virginia Polytechnic Institute, Research Division, Blacksburg, Virginia, United States. Received October 10, 1991.

PI 557004 to 557005-continued

PI 557004 **origin:** United States. **origin institute:** Virginia Polytechnic Institute, Research Division, Blacksburg, Virginia 24061. **cultivar:** VA 309. **pedigree:** Crosses involving Vesta 55 for resistance to black shank, Va 312 for resistance to black root rot and Lizard Tail Orinoco for leaf weight and quality. **other id:** CV-51. **source:** Crop Sci. 12(2):257 1972. **group:** CSR-TOBACCO. **remarks:** Fire-cured variety intermediate between Lizard Tail Orinoco and Va 312 in plant type. Leaf spacing on stalk wider than Lizard Tail Orinoco and approaches that of Va 312. Leaf texture soft, color dull green. Leaf surface at maturity wrinkled with marked depression of veins and mid-ribs. Resistance moderate to high for black shank and low to tolerant for black root rot. Cultivar. Seed.

PI 557005 **origin:** United States. **origin institute:** Virginia Polytechnic Institute, Research Division, Blacksburg, Virginia 24061. **cultivar:** VA 407. **pedigree:** Three crosses of black root rot susceptible cultivar Little Sweet Orinoco (LSO) and black root rot resistant breeding line 307 E. F3 [LSO X F3 (LSO X F5-307 E)] X LSO. **other id:** CV-52. **source:** Crop Sci. 12(2):258 1972. **group:** CSR-TOBACCO. **remarks:** Sun-cured variety with leaves slightly larger than Little Sweet Orinoco and general appearance of sun-cured type. Resistance moderate to black root rot. Cured leaf acceptable to buying interests of sun-cured tobacco. Yields equal to LSO on black-root-rot-free soil and considerably higher where black root rot is present. Cultivar. Seed.

PI 557006. *Nicotiana tabacum* L. SOLANACEAE

Donated by: Rogers, C.H., Coker's Pedigreed Seed Company, Hartsville, South Carolina, United States. Received October 10, 1991.

origin: United States. **origin institute:** Coker's Pedigreed Seed Company, Hartsville, South Carolina 29550. **cultivar:** COKER 354. **pedigree:** (Coker 319 X Coker 258) X Coker 319. **other id:** CV-64. **source:** Crop Sci. 15(1):101 1975. **group:** CSR-TOBACCO. **remarks:** Resistance high to black shank, common species of root-knot nematode, bacterial and fusarium wilt. Tolerant to brown spot. Leaves medium-medium broad, spaced 6cm apart on stalk. Similar to Coker 319 but yields 5-10% more cured leaf and higher resistance to all above diseases except fusarium wilt. Leaves hold well in field and well filled to top of plant. Leaves easily handled with minimum loss for breakage. Cultivar. Seed.

PI 557007 to 557008. *Stokesia laevis* (Hill) E. Greene ASTERACEAE
Stokes' aster

Donated by: Bradshaw, D.W., Clemson University, Clemson, South Carolina, United States. Received October 28, 1991.

PI 557007 **origin:** United States. **locality:** Garden of D. Edmunds, P.O. Box 102, Six Mile, South Carolina. Perennial. Wild. Seed.

PI 557008 **origin:** United States. **locality:** Garden of D.W. Bradshaw, 199 Old Cedar Lane, Central, South Carolina. Perennial. Wild. Seed.

PI 557009. *Perilla frutescens* (L.) Britton LAMIACEAE

Donated by: Koyama, T.M., New York Botanical Garden, Bronx, New York, United States. Received November 06, 1991.

donor id: K-17089. **origin:** Thailand. **collected:** February 24, 1986. **collector id:** K-17089. **locality:** Pasang District, Amphur Mae Chan, Chiang Rai Province. **latitude:** 20 deg. 10 min. N. **longitude:** 099 deg. 50 min. E. Seed.

PI 557010. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Orf, J.H., Minnesota Agr. Exp. Sta., University of Minnesota, St. Paul, Minnesota, United States. **remarks:** Bert Soybean. Received November 08, 1991.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., University of Minnesota, St. Paul, Minnesota 55108. **cultivar:** Bert. **pedigree:** M74-270 X A78-123018, F4. **other id:** CV-294. **group:** CSR-SOYBEAN. **other id:** PVP 9200018. **source:** Pending. **group:** PVPO. **remarks:** Maturity Group I with indeterminate growth habit. Flowers purple. Pubescence gray. Pod walls brown. Seeds yellow with buff hila and intermediate seed coat luster. 12-15cm taller than most other cultivars of similar maturity. Rps1 gene present for resistance to phytophthora root rot (*Phytophthora megasperma*). Moderately susceptible to iron deficiency chlorosis. Spring Annual. Cultivar. Seed.

PI 557011. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Orf, J.H., Minnesota Agr. Exp. Sta., University of Minnesota, St. Paul, Minnesota, United States. **remarks:** Leslie Soybean. Received November 08, 1991.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., University of Minnesota, St. Paul, Minnesota 55108. **cultivar:** Leslie. **pedigree:** Hodgson 78 X Pella, F4. **other id:** CV-295. **group:** CSR-SOYBEAN. **other id:** PVP 9200019. **source:** Pending. **group:** PVPO. **remarks:** Maturity Group I with indeterminate growth habit. Flowers purple. Pubescence gray. Pod walls tan. Seeds yellow with imperfect black hila and intermediate seed coat luster. Intensity of the imperfect black pigment in the hilum can vary across environments and even on different seeds from same plant. Rps1 gene present for resistance to phytophthora root rot (Phytophthora megasperma). Moderately. Spring Annual. Cultivar. Seed.

PI 557012 to 557017. Triticum aestivum L. POACEAE Common wheat

Donated by: Souza, E., University of Idaho, Res. & Ext. Center, P.O. Box AA, Aberdeen, Idaho, United States; and Agricultural Research Service--USDA. Received October 16, 1991.

PI 557012 **donor id:** IDO352. **origin:** United States. **origin institute:** Idaho Agric. Exp. Sta./USDA-ARS, Res. & Ext. Center, P.O. Box AA, Aberdeen, Idaho 83210. **pedigree:** F7 selection of cross A77860W with pedigree: TK/BURT/5/SM6/4/2*IT/UT175A-53//BLDS BURT/3/CI13438/6/TK/BURT//BEZ. **remarks:** Hard red winter full stature dryland variety with excellent yield potential in crop-fallow production area of U.S. intermountain region. Drought tolerance excellent. Excellent resistance to dwarf bunt. Moderate resistance to stripe rust. Milling and baking quality average to good. Awne, white chaffed, glabrous glumes, and early heading date compared to U.S. intermountain hard red winter wheat. Winter Annual. Breeding Material. Seed.

PI 557013 **donor id:** IDO360. **origin:** United States. **origin institute:** Idaho Agric. Exp. Sta./USDA-ARS, Res. & Ext. Center, P.O. Box AA, Aberdeen, Idaho 83210. **pedigree:** F7 selection of cross A75232W with pedigree: CNN//7* LEE/TF/5/SM4/4/BURT/3/R/R/NBR/6/HGL/ID5006. **remarks:** Hard red winter semi-dwarf irrigated variety. Excellent yield potential in crop-fallow production area of U.S. intermountain region. Mod. tolerance to snow mold. Drought tolerance poor. Mod. resistance to dwarf bunt & stripe rust. Milling & baking quality poor-average, long dough mixing times. Awne, white chaffed, glabrous glumes, & late heading date compared to U.S. intermountain hard red winter wheat. Winter Annual. Breeding Material. Seed.

PI 557012 to 557017-continued

- PI 557014 **donor id:** ID0361. **origin:** United States. **origin institute:** Idaho Agric. Exp. Sta./USDA-ARS, Res. & Ext. Center, P.O. Box AA, Aberdeen, Idaho 83210. **pedigree:** F7 selection of cross A75232W with pedigree: CNN//7* LEE/TF/5/SM4/4/BURT/3/R/R/NBR/6/HGL/ID5006. **remarks:** Hard red winter semi-dwarf variety. Excellent yield potential in crop-fallow & irrigated production areas of U.S. intermountain region. Excellent snow mold tolerance. Drought tolerance moderate. Susceptible to dwarf bunt & stripe rust. Milling & baking quality poor to avg. with long dough mixing times. Awned, white chaffed, glabrous glumes, & late heading date compared to U.S. intermountain hard red. Winter Annual. Breeding Material. Seed.
- PI 557015 **donor id:** ID0421. **origin:** United States. **origin institute:** Idaho Agric. Exp. Sta./USDA-ARS, Res. & Ext. Center, P.O. Box AA, Aberdeen, Idaho 83210. **pedigree:** F5 selection of cross A74125W-16-3-1/A7470W-11-2 with pedigree:UT 216C-12-10/CNN/5/SM4/4/BURT/3/R/R/NBR/6UT 216C-12-10/CNN/5/SM4/4/BURT/3/R/R/NBR/7/KO/UT222A-437-2//DM/3/S M 4/MT6619/4/MC/ELGAUCHO/3/KO/UT 233-3-10//BURT. **remarks:** Hard red winter full stature dryland variety with excellent yield potential in crop-fallow production area of U.S. intermountain region. Excellent tolerance to snow mold. Drought tolerance moderate. Excellent resistance to dwarf bunt. Moderate resistance to stripe rust. Milling and baking quality good to excellent. Awned, white chaffed, glabrous glumes, and late heading date compared to U.S. intermountain. Winter Annual. Breeding Material. Seed.
- PI 557016 **donor id:** ID0422. **origin:** United States. **origin institute:** Idaho Agric. Exp. Sta./USDA-ARS, Res. & Ext. Center, P.O. Box AA, Aberdeen, Idaho 83210. **pedigree:** F7 selection of cross A75232W with pedigree: CNN//7* LEE/TF/5/SM4/4/BURT/3/R/R/NBR/6/HGL/ID5006. **remarks:** Hard red winter semi-dwarf dryland variety with excellent yield potential in crop-fallow production area of U.S. intermountain region. Excellent tolerance to snow mold. Drought tolerance poor. Susceptible to dwarf bunt. Moderate resistance to stripe rust. Milling and baking quality good to excellent with long dough mixing times. Awned, white chaffed, glabrous glumes, and late heading date compared to. Winter Annual. Breeding Material. Seed.

PI 557012 to 557017-continued

PI 557017 **origin:** United States. **origin institute:** University of Idaho, Res. & Ext. Center, P.O. Box AA, Aberdeen, Idaho 83210. **cultivar:** FAIRVIEW. **pedigree:** F5 selection designated A791057W-2-3 from cross A71183WS-7-2/A71255WS-11-3. **remarks:** Hard red winter semi-dwarf variety with excellent yield potential in low rainfall areas of western Colorado and around SE Idaho. Likely carries Bt10 gene for dwarf bunt resistance. Excellent resistance to stripe rust. Milling and baking quality good to excellent with superior mixing tolerance. Awned, bronze chaffed, glabrous glumes, and an intermediate heading date compared to U.S. intermountain. Winter Annual. Cultivar. Seed.

PI 557018. *Corylus americana* Marshall BETULACEAE Filbert (Hazel)

Donated by: Henry, J., Plant Materials Center, Elsberry, Missouri, United States. Received September 08, 1981.

origin: United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Missouri seedlot. **local name:** American Hazel. Perennial. Breeding Material. Plant.

PI 557019. *Corylus americana* Marshall BETULACEAE Filbert (Hazel)

Donated by: Reisch, Bruce, Cornell University, NY State Ag. Exp. Sta., Dept. Hort. and Viticulture, Geneva, New York, United States. Received October 01, 1982.

origin: United States. **historical origin:** United States. **origin institute:** Private Breeder, Danville, Iowa. **cultivar:** Winkler. **pedigree:** Selected from the wild in Iowa. **remarks:** Described as having the largest nuts of any American hazel cultivar. Perennial. Cultivar. Plant.

PI 557020. *Corylus americana* Marshall BETULACEAE Filbert (Hazel)

Donated by: Weiser, C.J., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received February 09, 1983.

origin: United States. **pedigree:** Collected from the wild in Minnesota. **local name:** American Hazel. **collected:** August 31, 1982. **locality:** Hackensack, MN near Brainerd. **latitude:** 46 deg. 20 min. N. **longitude:** 94 deg. 10 min. W. **elevation:** 400m. Perennial. Wild. Plant.

PI 557021. *Corylus americana* Marshall BETULACEAE Filbert (Hazel)

Donated by: Widrlechner, Dr. Mark, USDA/ARS/NC-7, Iowa State University, Ames, Iowa, United States. Received April 20, 1987.

origin: United States. **pedigree:** Collected from the wild in Iowa. **local name:** American Hazel. **collected:** August 15, 1987. **locality:** Jefferson area, dry summer 1987, ridgetop. **latitude:** 40 deg. 57 min. N. **longitude:** 91 deg. 58 min. W. **elevation:** 229m. Perennial. Wild. Seed.

PI 557022. *Corylus americana* Marshall BETULACEAE Filbert (Hazel)

Donated by: Germain, Dr. Eric, INRA, Station Recherches d'Arboriculture, Pont-de-la-Maye, France. Received March 06, 1989.

origin: France. **historical origin:** United States. **cultivar:** Rush. **pedigree:** Selected from the wild in Pennsylvania. **remarks:** Probably the best variety of American hazel, with large chestnut brown nuts. Perennial. Cultivar. Cutting.

PI 557023. *Corylus americana* Marshall BETULACEAE Filbert (Hazel)

Donated by: Rutter, Phillip, Badgersett Research Farm, Canton, Minnesota, United States. Received April 18, 1991.

origin: United States. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection. Perennial. Breeding Material. Plant.

PI 557024 to 557043. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Thompson, Dr. M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received January 12, 1981.

PI 557024 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Creswell. **other id:** Du Provence. **other id:** Clark County Cob. **other id:** Norelins. Perennial. Cultivar. Plant.

PI 557025 **origin:** United States. **historical origin:** Italy. **cultivar:** Tonda Gentile Romana. **pedigree:** C. avellana selection from Italy. **other id:** Tonda Romana. **other id:** Tonda Gentile di Viterbo. Perennial. Cultivar. Plant.

PI 557024 to 557043-continued

- PI 557026 **origin:** United States. **origin institute:** Woodford's Orchard, Forest Grove, Oregon. **cultivar:** Woodford. **pedigree:** Seedling selection. **remarks:** Very productive, large nut with a thick shell, early. Perennial. Cultivar. Plant.
- PI 557027 **origin:** United States. **historical origin:** France. **cultivar:** Hall's Giant. **pedigree:** Seedling selection. **other id:** Geante de Halle. **other id:** Halle'sche Reissenuss. **other id:** Bollwiller. **remarks:** Husk remains green and fleshy, nuts very even, broad at base, bright golden, thick-shelled. Perennial. Cultivar. Plant.
- PI 557028 **origin:** United States. **historical origin:** Italy. **cultivar:** Montebello. **pedigree:** Seedling selection. **remarks:** Moderately vigorous and productive, medium sized nuts, greyish-brown with distinct stripes. Perennial. Cultivar. Plant.
- PI 557029 **origin:** United States. **historical origin:** United States. **origin institute:** Fitzgerald Nursery, Rt. 1, Washougal, Washington. **cultivar:** Gem. **pedigree:** Barcellona x Daviana. **other id:** Fitzgerald 18. **remarks:** Nut large and long, resembles Daviana, kernel averages 40.8% of nut. Perennial. Cultivar. Plant.
- PI 557030 **origin:** United States. **cultivar:** Kruse. **pedigree:** Seedling selection from French seedlot. **remarks:** Tree fairly vigorous, productive, nut large, of Barcelona type with very pronounced stripes. Perennial. Cultivar. Plant.
- PI 557031 **origin:** United States. **cultivar:** Brixnut. **pedigree:** Seedling selection. **remarks:** Very late, very productive cultivar, large, round, light-colored nut. Perennial. Cultivar. Plant.
- PI 557032 **origin:** United States. **historical origin:** United States. **origin institute:** Fitzgerald Nursery, Rt. 1, Washougal, Washington. **cultivar:** Fitzgerald 20. **pedigree:** Barcellona x Daviana open pollinated. **other id:** Fitzgerald. **remarks:** Nut round, very large, uniform in size and shape. Perennial. Cultivar. Plant.
- PI 557033 **origin:** United States. **historical origin:** Spain. **cultivar:** Casina. **pedigree:** Selection from the wild in Northern Spain. **remarks:** This is a very minor cultivar in Spain. Perennial. Cultivar. Plant.
- PI 557034 **origin:** United States. **historical origin:** Germany. **cultivar:** Italian Red. **remarks:** Moderately productive, nuts large and attractive. Perennial. Cultivar. Plant.

PI 557024 to 557043-continued

- PI 557035 **origin:** United States. **historical origin:** Italy.
cultivar: Tonda Gentile delle Langhe. **pedigree:** Seedling selection. **other id:** Ronde du Piemont. **other id:** Tonda Gentile del Piemonte. Perennial. Cultivar. Plant.
- PI 557036 **origin:** United States. **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331.
cultivar: OSU 14-19. **pedigree:** Selection of Barcelona x Butler. Perennial. Breeding Material. Plant.
- PI 557037 **origin:** United States. **historical origin:** Spain.
cultivar: Barcelona. **pedigree:** Chance seedling. **other id:** Grosse Blanche de Angleterre. **other id:** Gertile de Coutard. **other id:** Castanyera. **remarks:** The commercial variety of the Pacific Northwest. Large, vigorous, productive, large and attractive nuts. Perennial. Cultivar. Plant.
- PI 557038 **origin:** United States. **historical origin:** United States.
origin institute: Fitzgerald Filbert Nursery, Rt. 1, Washougal, Washington. **cultivar:** Nonpareil. **remarks:** Large, good-quality kernel but with large hollow center Kernel 37% of nut. Perennial. Cultivar. Plant.
- PI 557039 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Cosford. **other id:** Coxford. **other id:** Miss Young's. **other id:** Thin Shelled. **remarks:** Fairly vigorous, fair cropper, nuts long, lightly banded with a medium-thin shell. Perennial. Cultivar. Plant.
- PI 557040 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Calcott Gardens, England.
cultivar: Daviana. **pedigree:** Seedling selection. **other id:** Duchess of Edinburgh. **other id:** Des Anglais. **remarks:** Vigorous, upright, very light producer. Nuts very similar to Cosford, tree subject to bud mite. Perennial. Cultivar. Plant.
- PI 557041 **origin:** United States. **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331.
cultivar: OSU 14-84. **pedigree:** Barcelona x Daviana selection. Perennial. Breeding Material. Plant.
- PI 557042 **origin:** United States. **origin institute:** Private Grower, Eagle Creek, Oregon. **cultivar:** Gasaway. **pedigree:** C. avellana selection from Oregon. **other id:** Gassaway. **other id:** Gassoway. Perennial. Cultivar. Plant.

PI 557024 to 557043-continued

PI 557043 **origin:** United States. **historical origin:** France.
cultivar: White Aveline. **pedigree:** C. avellana selection
from France. **other id:** Aveline Blanche. **other id:** White
Filbert. **other id:** Weisse Lanberts Nuss. **remarks:**
Excellent pollenizer although the nuts are small and not
valuable commercially. Perennial. Cultivar. Plant.

PI 557044 to 557050. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 12,
1981.

PI 557044 **origin:** United States. **origin institute:** Ryan Filbert
Orchard, Rt. 1, Box 104, Gervais, Oregon 97026.
cultivar: Ryan. **pedigree:** Chance seedling. **remarks:**
Thin-shelled, not commercially significant (Thomspon).
Perennial. Cultivar. Plant.

PI 557045 **origin:** United States. **historical origin:** United States.
origin institute: Private Breeder, Washington. **cultivar:**
Ennis. **pedigree:** Unknown. **remarks:** Selected primarily
for its large nut size and yielding capacity, >50% of the
nuts fall in the 2 largest grades. Perennial. Cultivar.
Plant.

PI 557046 **origin:** United States. **historical origin:** France.
cultivar: Segorbe. **remarks:** Nuts thick-shelled, medium
light brown with some banding, kernels blanche, with good
flavor. Perennial. Cultivar. Plant.

PI 557047 **origin:** United States. **cultivar:** Fusco-rubra. **pedigree:**
Seedling selection. **other id:** Fructo Rubro. **remarks:**
Floppy growth habit, muddy-red leaves (M. Thompson).
Perennial. Cultivated. Plant.

PI 557048 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Pendula. **pedigree:** C. avellana selection.
other id: Weeping Filbert. Perennial. Cultivar. Plant.

PI 557049 **origin:** United States. **historical origin:** United
Kingdom. **cultivar:** Contorta. **pedigree:** Chance seedling.
other id: Curly Filbert. **other id:** Contorted Filbert.
Perennial. Cultivar. Plant.

PI 557050 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Aurea. **pedigree:** C. avellana selection. **other**
id: Golden. Perennial. Cultivar. Plant.

PI 557051 to 557071. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Thompson, Dr. M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received March 01, 1983.

PI 557051 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Imperatrice Eugenie. **other id:** Kaiserin Eugenie. **other id:** Eugenie. **remarks:** Excellent as a pollenizer for Barcelona in Oregon. Perennial. Cultivar. Plant.

PI 557052 **origin:** United States. **origin institute:** H.L. Percy Nursery, Salem, Oregon. **cultivar:** Royal. **pedigree:** Barcelona x Daviana. **remarks:** Nut is larger than either parent, thin-shelled with large kernels, color and markings similar to Daviana. Perennial. Cultivar. Plant.

PI 557053 **origin:** United States. **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331. **cultivar:** OSU 20-58. **pedigree:** Selection of Tonda G. D. L. x Bellhusk #2. Perennial. Breeding Material. Plant.

PI 557054 **origin:** United States. **historical origin:** Italy. **origin institute:** Istituto per Frutticoltura, Insustuale, Torino, Oregon. **cultivar:** Romisondo 101. **pedigree:** Seedling selection. **other id:** Romisondo. Perennial. Cultivar. Plant.

PI 557055 **origin:** United States. **historical origin:** Spain. **cultivar:** Ribet. **pedigree:** Seedling selection. **other id:** Ribeta. Perennial. Cultivar. Plant.

PI 557056 **origin:** Turkey. **historical origin:** United States. **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-1. **pedigree:** Open-pollinated seedling selection from Turkish seedlot. **locality:** Giresun, Turkey. Perennial. Breeding Material. Plant.

PI 557057 **origin:** Turkey. **historical origin:** United States. **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-21. **pedigree:** Seedling selection from cultivar Girsun. Perennial. Breeding Material. Plant.

PI 557058 **origin:** Turkey. **historical origin:** United States. **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-23. **pedigree:** Open pollinated seedling selection from Turkish seedlot. **locality:** Giresun, Turkey. Perennial. Breeding Material. Plant.

PI 557051 to 557071-continued

- PI 557059 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-24.
pedigree: Seedling selection from cultivar Giresun.
Perennial. Breeding Material. Plant.
- PI 557060 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-39.
pedigree: Seedling selection from cultivar Giresun.
Perennial. Breeding Material. Plant.
- PI 557061 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-41.
pedigree: Open-pollinated seedling selection from Turkish
seedlot. **locality:** Giresun, Turkey. Perennial.
Breeding Material. Plant.
- PI 557062 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-42.
pedigree: Open-pollinated seedling selection from Turkish
seedlot. **locality:** Giresun, Turkey. Perennial.
Breeding Material. Plant.
- PI 557063 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-46.
pedigree: Open-pollinated seedling selection from Turkish
seedlot. **locality:** Giresun, Turkey. Perennial.
Breeding Material. Plant.
- PI 557064 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-47.
pedigree: Open-pollinated seedling selection from Turkish
seedlot. **locality:** Giresun, Turkey. Perennial.
Breeding Material. Plant.
- PI 557065 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-50.
pedigree: Seedling selection from cultivar Giresun.
Perennial. Breeding Material. Plant.
- PI 557066 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-56.
pedigree: Seedling selection from cultivar Giresun.
Perennial. Breeding Material. Plant.

PI 557051 to 557071-continued

- PI 557067 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-58.
pedigree: Open-pollinated seedling selection from Turkish
seedlot. **locality:** Giresun, Turkey. Perennial.
Breeding Material. Plant.
- PI 557068 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-60.
pedigree: Seedling selection from cultivar Giresun.
locality: Giresun, Turkey. Perennial. Breeding
Material. Plant.
- PI 557069 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-80.
pedigree: Seedling selection from cultivar Giresun.
Perennial. Breeding Material. Plant.
- PI 557070 **origin:** Turkey. **historical origin:** United States.
origin institute: Oregon State University, Dept.
Horticulture, Corvallis, Oregon. **cultivar:** OSU 54-81.
pedigree: Seedling selection from cultivar Giresun.
Perennial. Breeding Material. Plant.
- PI 557071 **origin:** United States. **historical origin:** United States.
origin institute: Fitzgerald Nursery, Rt. 1, Washougal,
Washington. **cultivar:** Fitzgerald. **pedigree:** Barcellona
x Daviana open pollinated selection. **other id:**
Fitzgerald 20. Perennial. Cultivar. Plant.

PI 557072 to 557076. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Thompson, Dr. M.M., Oregon State University, Department
of Horticulture, Corvallis, Oregon, United States. Received January
04, 1983.

- PI 557072 **origin:** United States. **historical origin:** Italy.
cultivar: Tonda Gentile delle Langhe. **pedigree:** Seedling
selection. **other id:** Ronde du Piemont. **other id:** Tonda
Gentile del Piemonte. Perennial. Cultivar. Plant.
- PI 557073 **origin:** United States. **historical origin:** Italy.
cultivar: Tonda Gentile delle Langhe. **pedigree:** Seedling
selection. **other id:** Ronde du Piemont. **other id:** Tonda
Gentile del Piemonte. Perennial. Cultivar. Plant.

PI 557072 to 557076-continued

PI 557074 **origin:** United States. **historical origin:** Italy.
cultivar: Tonda Gentile delle Langhe. **pedigree:** Seedling
selection. **other id:** Ronde du Piemont. **other id:** Tonda
Gentile del Piemonte. Perennial. Cultivar. Plant.

PI 557075 **origin:** United States. **historical origin:** Italy.
cultivar: Tonda Gentile delle Langhe. **pedigree:** Seedling
selection. **other id:** Ronde du Piemont. **other id:** Tonda
Gentile del Piemonte. Perennial. Cultivar. Plant.

PI 557076 **origin:** United States. **historical origin:** United States.
origin institute: Private Breeder, Nooksack, Washington.
cultivar: Nooksack. **pedigree:** Chance seedling of Kentish
Cob. **remarks:** Very late, very productive, pollinates du
Chilly and the late bloom of Barcelona. Perennial.
Cultivar. Plant.

PI 557077. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 04,
1983.

origin: United States. **origin institute:** Private
Breeder, Wilsonville, Oregon. **cultivar:** Butler.
pedigree: Chance seedling. **remarks:** Very vigorous,
highly productive, large nuts. Perennial. Cultivar.
Plant.

PI 557078. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received March 22,
1984.

origin: United States. **historical origin:** UNCERTAIN.
cultivar: Heterophylla. **pedigree:** Seedling selection.
local name: Cutleaf Filbert. **remarks:** Ornamental
filbert. Perennial. Breeding Material. Plant.

PI 557079. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Arneson Nursery, Canby, Oregon, United States. Received
January 18, 1985.

origin: United States. **origin institute:** Arneson's
Nursery, 1445 S.E. 1st Street, Canby, Oregon. **cultivar:**
Arneson Rootstock. **pedigree:** Seedling selection.
Perennial. Breeding Material. Plant.

PI 557080 to 557081. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Hiirsalmi, Heimo, Agricultural Research Center, Piikkio, Finland. Received February 18, 1986.

PI 557080 **origin:** Finland. **pedigree:** Collected from the wild in Finland. **collected:** February 05, 1986. **locality:** Ala Kieri, Lappa, South-Western Finland. **latitude:** 61 deg. 05 min. N. **longitude:** 21 deg. 45 min. E. Perennial. Wild. Plant.

PI 557081 **origin:** Finland. **pedigree:** Collected from the wild in Finland. **collected:** February 05, 1986. **locality:** Hautta, Lappi, Southwestern Finland. **latitude:** 61 deg. 05 min. N. **longitude:** 21 deg. 45 min. E. Perennial. Wild. Plant.

PI 557082 to 557083. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Reich, Dr. J., Cornell University, NY Agric. Exper. Sta., Geneva, New York, United States. Received February 19, 1986.

PI 557082 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 485. **pedigree:** Rush x DuChilly. Perennial. Breeding Material. Plant.

PI 557083 **origin:** United States. **origin institute:** NY Agricultural Experiment Sta., Ithaca, New York. **cultivar:** Graham. **pedigree:** Winkler x Longfellow. **other id:** Longwink. **remarks:** Nut large and good quality, tree is blight resistant, hardy, annual bearing. Perennial. Breeding Material. Plant.

PI 557084 to 557098. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Ermen, H.F., Brogdale Experimental Hort. Station, Faversham, Kent, England, United Kingdom. Received March 16, 1987.

PI 557084 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Blumberger Zellernuss. **pedigree:** Seedling selection of Early Long Zellernuss. **remarks:** Very vigorous, poor cropper, nut pointed and small, dull yellow in color, kernel very oily and firm. Perennial. Cultivar. Plant.

PI 557085 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Gustav's Zellernuss. **remarks:** Tree very vigorous and upright, poor, early crop, nuts small, dull, shell medium thick. Perennial. Cultivar. Cutting.

PI 557084 to 557098-continued

- PI 557086 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Louisen's Zellernuss. **pedigree:** Seedling selection. **remarks:** Medium cropper, nut round and thick-shelled. Perennial. Cultivar. Cutting.
- PI 557087 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Truchsess' Zellernuss. **pedigree:** Seedling selection. **remarks:** Long nut, thick shell, late maturing. Perennial. Cultivar. Cutting.
- PI 557088 **origin:** United Kingdom. **historical origin:** France. **cultivar:** White Aveline. **pedigree:** Seedling selection. **other id:** White Filbert. **other id:** Weisse Lamberts Nuss. **other id:** Avelline Blanche. **remarks:** Excellent pollenizer although the nuts are small and not of commercial value. Perennial. Cultivar. Cutting.
- PI 557089 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Burchardt's Zellernuss. **remarks:** Early, medium to poor crop, lots of suckers, kernel tough with poor flavor. Perennial. Cultivar. Cutting.
- PI 557090 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Kadetten Zellernuss. **remarks:** Good to fair cropper, early, nuts medium to long, oblong and very downy. Shell medium thick. Perennial. Cultivar. Cutting.
- PI 557091 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Ludolph's Zellernuss. **remarks:** Nut has very broad base, sharply tapering, with a thick shell. Kernel bland-flavored. Perennial. Cultivar. Cutting.
- PI 557092 **origin:** United Kingdom. **cultivar:** Cannon Ball. **pedigree:** Seedling of Hall's Giant. **remarks:** Ripens very late, end of September to the beginning of October. Perennial. Cultivar. Cutting.
- PI 557093 **origin:** United Kingdom. **cultivar:** Mogulnuss. **other id:** Mogul Nut. **remarks:** Tree compact and vigorous, early cropper, nuts rather long and nearly enclosed, kernels with good flavor. Perennial. Cultivar. Cutting.
- PI 557094 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Buttner's Zellernuss. **pedigree:** Seedling selection of Voller. **remarks:** Fairly good cropper, spreading to moderate growth, nut round, downy, with light banding. Perennial. Cultivar. Cutting.

PI 557084 to 557098-continued

- PI 557095 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Kurzhullige Zellernuss. **remarks:** Upright and compact, fair cropper, husk is exceptionally short, nuts very small and in clusters. Perennial. Cultivar. Cutting.
- PI 557096 **origin:** United Kingdom. **historical origin:** Germany. **cultivar:** Minna's. **other id:** Minna's Zellernuss. **remarks:** Very vigorous, early, nuts oblong and tapering sharply, even golden brown, shell of medium thickness. Perennial. Cultivar. Cutting.
- PI 557097 **origin:** United Kingdom. **cultivar:** Frizzled Filbert. **remarks:** Nut small, thin and brown, no banding, ridged surface, nut has poor flavor and woody texture. Perennial. Cultivar. Cutting.
- PI 557098 **origin:** United Kingdom. **cultivar:** Red Filbert. **other id:** Red Lambert. **remarks:** Upright, compact growth, nut large, brown with dark brown bands, shell medium thickness. Perennial. Cultivar. Cutting.

PI 557099. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Pierce and Sons Nurseries, Newburg, Oregon, United States. Received January 15, 1988.

origin: United States. **historical origin:** France. **cultivar:** Du Chilly. **pedigree:** Seedling selection. **other id:** Kentish Cob. **remarks:** Pollenizer for Barcelona in the Northwest, also standard cultivar in this region. Perennial. Cultivar. Cutting.

PI 557100 to 557103. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received January 23, 1988.

- PI 557100 **origin:** United States. **historical origin:** New Zealand. **cultivar:** Ugbrooke. Perennial. Cultivar. Cutting.
- PI 557101 **origin:** United States. **historical origin:** New Zealand. **cultivar:** Waterloo. **remarks:** Early, round thin-shelled nut that blanches well. Perennial. Cultivar. Cutting.
- PI 557102 **origin:** United States. **cultivar:** McKinney Early. Perennial. Cultivar. Cutting.

PI 557100 to 557103-continued

PI 557103 **origin:** United States. **historical origin:** Spain.
cultivar: San Jaume 261. **pedigree:** Seedling selection.
other id: Sant Joan de Morel. Perennial. Cultivar.
Cutting.

PI 557104 to 557105. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Rovira, Dr. M., IRTA Centro Agropecuari, Mas Bove,
Apartat 415, Reus, Tarragona, Spain. Received February 02, 1988.

PI 557104 **origin:** Spain. **origin institute:** Centro de
Experimentation Agraria, Crta Morell-Reus, Apartado 415,
Reus, Tarragona. **cultivar:** Negret Primerenc. Perennial.
Cultivar. Cutting.

PI 557105 **origin:** Spain. **cultivar:** Punxenc. **other id:** Negret
Caputxi. **other id:** en Figuerola. Perennial. Cultivar.
Cutting.

PI 557106 to 557113. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Tasiás-Valls, Dr. Juan, Centro Exp. Agr., Tarragona,
Spain. Received February 02, 1988.

PI 557106 **origin:** Spain. **cultivar:** Grifoll. **pedigree:** Seedling
selection. **other id:** Queixal de Llop. **other id:** Quiexal
de gos. **other id:** Queixagos. **remarks:** Second largest
cultivated variety in Spain. Perennial. Cultivar.
Cutting.

PI 557107 **origin:** Spain. **cultivar:** Culpla. **pedigree:** Seedling
selection. **other id:** Culpla fort.. **remarks:** Originated
in Marsa, cultivated from Priorat to Vandellos.
Perennial. Cultivar. Cutting.

PI 557108 **origin:** Spain. **cultivar:** Artellet. **pedigree:** Seedling
selection. **other id:** Artell nano. **remarks:** Early,
excellent producer. Perennial. Cultivar. Cutting.

PI 557109 **origin:** Spain. **cultivar:** Closca Molla. **pedigree:**
Selection of native Spanish *C. avellana*. **other id:**
Mollar. **other id:** Culpla mol. Perennial. Cultivar.
Cutting.

PI 557110 **origin:** Spain. **cultivar:** Trenet. **pedigree:** Selection of
native Spanish *C. avellana*. Perennial. Cultivar.
Cutting.

PI 557106 to 557113-continued

- PI 557111 **origin:** Spain. **cultivar:** Artell de Palma. **pedigree:** Selection of native Spanish C. avellana. **remarks:** Late. Perennial. Cultivar. Cutting.
- PI 557112 **origin:** Spain. **cultivar:** Ros. **pedigree:** Selection of native Spanish C. avellana. **other id:** Ros de la Selva. Perennial. Cultivar. Cutting.
- PI 557113 **origin:** Spain. **cultivar:** Rosset. **pedigree:** Seedling selection. **other id:** Rosset de Valls. **other id:** Falseta en Cornudella. Perennial. Cultivar. Cutting.

PI 557114 to 557118. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Tamponi, Dr. G., Inst. Sperimentale Frutticoltura, Rome, Italy. Received March 02, 1988.

- PI 557114 **origin:** Italy. **cultivar:** Bergeri. **pedigree:** Selection of Italian C. avellana. **other id:** La Bregeri. **remarks:** Nut medium to large, long to conical, light brown with dark stripes in grooves. Perennial. Cultivar. Cutting.
- PI 557115 **origin:** Italy. **historical origin:** Italy. **cultivar:** Ghirara. **pedigree:** Selection of native Italian C. avellana. **remarks:** Tree of good vigor, nuts midseason. Perennial. Cultivar. Cutting.
- PI 557116 **origin:** Italy. **cultivar:** Jean's. **remarks:** Origin of this cultivar is obscure. Perennial. Cultivar. Cutting.
- PI 557117 **origin:** Italy. **cultivar:** San Giovanni. **pedigree:** Selection of Italian C. avellana. **locality:** Campania. **remarks:** Early ripening, nuts not of high quality, short oval in shape, tree not cold hardy (Thompson). Perennial. Cultivar. Cutting.
- PI 557118 **origin:** Italy. **cultivar:** Tonda Rossa. **pedigree:** Selection of native Italian C. avellana. **remarks:** Low yielding, late to mature, no longer widely grown in Italy. Perennial. Cultivar. Cutting.

PI 557119 to 557121. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received March 02, 1988.

PI 557119 to 557121-continued

- PI 557119 **origin:** United States. **historical origin:** Spain.
cultivar: Pauetet. **pedigree:** Selection of native Spanish
C. avellana. **other id:** D'en Bardina. Perennial.
Cultivar. Cutting.
- PI 557120 **origin:** United States. **historical origin:** Spain.
cultivar: San Pere. **pedigree:** Seedling selection.
Perennial. Cultivar. Cutting.
- PI 557121 **origin:** United States. **historical origin:** Spain.
cultivar: San Joan. **pedigree:** Seedling selection. **other**
id: Sant Joan de Morel. Perennial. Cultivar. Cutting.

PI 557122 to 557125. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Ristevski, Dr. B., Inst. za Ovostarstvo, Prvomajska Br.
5, Skopje, Yugoslavia. Received February 08, 1988.

- PI 557122 **origin:** Yugoslavia. **origin institute:** Institut Za
Ovostrostvo, Prvomajska Gr. 5, Skopje 91000. **cultivar:**
B-3. **pedigree:** Selected from the wild in Yugoslavia.
locality: Pelagonia Region. Perennial. Breeding
Material. Cutting.
- PI 557123 **origin:** Yugoslavia. **origin institute:** Institut Za
Ovostrostvo, Prvomajska Gr. 5, Skopje 91000. **cultivar:**
B-1. **pedigree:** Selected from the wild in Yugoslavia.
locality: Pelagonia Region. Perennial. Breeding
Material. Cutting.
- PI 557124 **origin:** Yugoslavia. **origin institute:** Institut Za
Ovostrostvo, Prvomajska Gr. 5, Skopje 91000. **cultivar:**
B-2. **pedigree:** Selected from the wild in Yugoslavia.
locality: Pelagonia Region. Perennial. Breeding
Material. Cutting.
- PI 557125 **origin:** Yugoslavia. **origin institute:** Institut Za
Ovostrostvo, Prvomajska Gr. 5, Skopje 91000. **cultivar:**
B-4. **pedigree:** Selected from the wild in Yugoslavia.
locality: Pelagonia Region. Perennial. Breeding
Material. Cutting.

PI 557126 to 557130. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Coque-Fuertes, Dr. M., Centro de Experimentacion Agro.,
Villaviciosa, Spain. Received February 12, 1988.

- PI 557126 **origin:** Spain. **origin institute:** Centro de
Experimentation Agraria, Apdo. 13, Villaviciosa 33300.
cultivar: Amandi. Perennial. Cultivar. Cutting.

PI 557126 to 557130-continued

- PI 557127 **origin:** Spain. **origin institute:** Centro de Experimentation Agraria, Apdo. 13, Villaviciosa 33300. **cultivar:** Espinaredo. Perennial. Cultivar. Cutting.
- PI 557128 **origin:** Spain. **origin institute:** Centro de Experimentation Agraria, Apdo. 13, Villaviciosa 33300. **cultivar:** Quiros. Perennial. Cultivar. Cutting.
- PI 557129 **origin:** Spain. **origin institute:** Centro de Experimentation Agraria, Apdo. 13, Villaviciosa 33300. **cultivar:** Restiello. Perennial. Cultivar. Cutting.
- PI 557130 **origin:** Spain. **origin institute:** Centro de Experimentation Agraria, Apdo. 13, Villaviciosa 33300. **cultivar:** Villaviciosa. **pedigree:** Selection of C. avellana native to Villaviciosa. Perennial. Cultivar. Cutting.

PI 557131 to 557143. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Parfitt, Dr. Dan, USDA/ARS/NCGR-Davis, University of California, Davis, California, United States. Received January 26, 1988.

- PI 557131 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Brixley's New. Perennial. Cultivar. Cutting.
- PI 557132 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Brixley's Quality. Perennial. Cultivar. Cutting.
- PI 557133 **origin:** United States. **origin institute:** Private Nursery, Sherwood, Oregon. **cultivar:** Clackamas. **remarks:** Inferior in all respects to Barcelona except that the nuts are similar in shape. Moderately productive. Perennial. Cultivar. Cutting.
- PI 557134 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Emperor. **pedigree:** Probably a seedling selection. Perennial. Cultivar. Cutting.
- PI 557135 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Freehusker. Perennial. Cultivar. Cutting.
- PI 557136 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Lyons. Perennial. Cultivar. Cutting.
- PI 557137 **origin:** United States. **historical origin:** Germany. **cultivar:** Macrocarpa. **pedigree:** Chance seedling. Perennial. Cultivar. Cutting.

PI 557131 to 557143-continued

- PI 557138 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Nixon. Perennial. Cultivar. Cutting.
- PI 557139 **origin:** United States. **historical origin:** Italy.
cultivar: Noce Lunga. **other id:** Noce Lunghe. **remarks:**
Moderately vigorous, open spreading. Light producer.
Perennial. Cultivar. Cutting.
- PI 557140 **origin:** United States. **historical origin:** United
Kingdom. **cultivar:** Nottingham. **remarks:** Old cultivar,
with long nuts typically Aveline in appearance and
pointed at the base, 6-8 per cluster. Perennial.
Cultivar. Cutting.
- PI 557141 **origin:** United States. **historical origin:** United
Kingdom. **cultivar:** Prolific Cob. Perennial. Cultivar.
Cutting.
- PI 557142 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Sunderland. Perennial. Cultivar. Cutting.
- PI 557143 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Tony. Perennial. Cultivar. Cutting.

PI 557144. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Salt, Richard, Victoria, New South Wales, Australia.
Received May 06, 1988.

origin: Australia. **historical origin:** Australia. **origin**
institute: Private Breeder, PO Box 12, The Patch 3792,
Victoria, New South Wales. **cultivar:** Wanliss Pride.
pedigree: Seedling of Imperial de Trebizonda. **other id:**
Wanliss. **remarks:** Large, round, shiny nut. Perennial.
Cultivar. Cutting.

PI 557145 to 557158. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Brogdale Experimental Hort. Station, Faversham, Kent,
England, United Kingdom. **Received** January 30, 1989.

- PI 557145 **origin:** United Kingdom. **cultivar:** Downton Long. **other**
id: Downton. **remarks:** Vigorous, spreading. Nut is small
and golden brown with some banding, pubescent.
Perennial. Cultivar. Cutting.
- PI 557146 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Volle Zellernuss. **other id:** Italienische
lange. Perennial. Cultivar. Cutting.

PI 557145 to 557158-continued

- PI 557147 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Liegel's Zellernuss. **remarks:** Upright,
full-bodied tree, nut long and thin, golden brown with
light colored bands, thick shell. Perennial. Cultivar.
Cutting.
- PI 557148 **origin:** United Kingdom. **historical origin:** Germany.
cultivar: Gubener Barcelloner. **remarks:** Small, almost
spherical nuts, golden with dark brown bands, shell
average thickness. Perennial. Cultivar. Cutting.
- PI 557149 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: The Shah. **remarks:** Rather poor cropper, nuts
downy, oblong and broad, shell medium to thick, kernel
has fair flavor. Perennial. Cultivar. Cutting.
- PI 557150 **origin:** United Kingdom. **historical origin:** France.
cultivar: Prolifique A Coque Serree. **remarks:** Vigorous,
nuts golden brown with slight banding, long and
thin-shelled. Kernel has very good flavor. Perennial.
Cultivar. Cutting.
- PI 557151 **origin:** United Kingdom. **historical origin:** Germany.
cultivar: Sickler's Zellernuss. **remarks:** Low cropper,
nuts slightly tapering, oblong, light yellow and dull,
thin-shelled. Kernels have good flavor. Perennial.
Cultivar. Cutting.
- PI 557152 **origin:** United Kingdom. **cultivar:** Multiflora. **other id:**
Nottingham. **remarks:** Very old cultivar, nuts golden
brown with brown banding, thin-shelled. Perennial.
Cultivar. Cutting.
- PI 557153 **origin:** United Kingdom. **historical origin:** Germany.
cultivar: Lange Landsberger. **other id:** Langste
Zellernuss. **other id:** Fichtwerders Zellernuss. **remarks:**
Medium growth, leggy and wide-spreading, nut small to
medium sized, golden brown with light brown bands, thick
shell. Perennial. Cultivar. Cutting.
- PI 557154 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Prolific Closehead. **other id:** Fichtmann's.
remarks: Growth dwarf, leaf very flat, nuts thin-shelled,
light brown, very good flavor. Perennial. Cultivar.
Cutting.
- PI 557155 **origin:** United Kingdom. **cultivar:** Princess Royal. **other
id:** Duke of Edinburgh. **remarks:** Very old cultivar,
vigorous, fairly good cropper. Nuts taper sharply to a
point, kernels woody with fair flavor. Perennial.
Cultivar. Cutting.

PI 557145 to 557158-continued

- PI 557156 **origin:** United Kingdom. **historical origin:** UNCERTAIN.
cultivar: Barcelloner Zellernuss. **other id:** Barcelona.
remarks: Spreading, moderately vigorous tree, good to
fair cropper, kernel felted, very dry and woody, poor
flavor. Perennial. Cultivar. Cutting.
- PI 557157 **origin:** United Kingdom. **cultivar:** Bandnuss. **remarks:**
Vigorous, wide and spreading, nut is long, uneven shaped
and downy w/pointed base. Perennial. Cultivar.
Cutting.
- PI 557158 **origin:** United Kingdom. **cultivar:** Barr's Zellernuss.
other id: Barr's Spanish Nut. **remarks:** Nut thick
shelled, small, light brown, banded. Kernel soft with
average flavor. Perennial. Cultivar. Cutting.

PI 557159 to 557162. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Profestation voor de Fruittelt, Wilhelmdorp,
Netherlands. Received January 30, 1989.

- PI 557159 **origin:** Netherlands. **historical origin:** United Kingdom.
cultivar: Pearson's Prolific. **remarks:** Vigorous, early,
fair cropper, nuts large and plump, downy with a thick
shell. Kernel with good flavor. Perennial. Cultivar.
Cutting.
- PI 557160 **origin:** Netherlands. **historical origin:** United Kingdom.
cultivar: Webb's Price Cob. **pedigree:** Seedling
selection. **other id:** Preisnuss. **other id:** Webb's
Preisnuss. **other id:** Filbert Cobb v. Hogg. **remarks:**
Ripens in mid-September, nuts are long. Perennial.
Cultivar. Cutting.
- PI 557161 **origin:** Netherlands. **historical origin:** United Kingdom.
cultivar: Long Tiding Zeller. **other id:** Early Long
Zeller. **remarks:** Old cultivar, one of the hardest
known. Perennial. Cultivar. Cutting.
- PI 557162 **origin:** Netherlands. **historical origin:** United Kingdom.
cultivar: Garibaldi. **pedigree:** Seedling selection.
other id: Webb's Garibaldi. **remarks:** Old cultivar, one
of the hardest known, nuts oblong and very tapering,
very thin-shelled. Perennial. Cultivar. Cutting.

PI 557163 to 557168. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Minist. de Agricultura, Pesca Y Alimentacion, Spain.
Received January 30, 1989.

PI 557163 to 557168-continued

- PI 557163 **origin:** Spain. **cultivar:** Pinyolenc. **other id:** Floquet.
other id: Pinyolenca. **other id:** Avellana petita.
Perennial. Cultivar. Cutting.
- PI 557164 **origin:** Spain. **cultivar:** Pere Mas. Perennial.
Cultivar. Cutting.
- PI 557165 **origin:** Spain. **cultivar:** Garrofi. **other id:** Negret
Garrofi. **other id:** Garrofina. **other id:** Ratllada.
Perennial. Cultivar. Cutting.
- PI 557166 **origin:** Spain. **cultivar:** Simo. Perennial. Cultivar.
Cutting.
- PI 557167 **origin:** Spain. **cultivar:** Ratoli. Perennial. Cultivar.
Cutting.
- PI 557168 **origin:** Spain. **cultivar:** Lluenta. Perennial. Cultivar.
Cutting.

PI 557169 to 557171. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Forskingsstasjon, Njos, Hermansverk, Norway. Received
February 21, 1989.

- PI 557169 **origin:** Norway. **historical origin:** United Kingdom.
cultivar: Jeeve's Samling. Perennial. Cultivar.
Cutting.
- PI 557170 **origin:** Norway. **historical origin:** UNCERTAIN. **cultivar:**
Kunzemuller Zellernuss. Perennial. Cultivar. Cutting.
- PI 557171 **origin:** Norway. **historical origin:** UNCERTAIN. **cultivar:**
Romische Nuss. Perennial. Cultivar. Cutting.

PI 557172 to 557189. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Craddock, Dr. Hill, Inst. Frutticoltura Ind., Torino,
Italy. Received March 09, 1989.

- PI 557172 **origin:** Italy. **cultivar:** Nostrale. **other id:** Secondo
Alberghina. **other id:** Santa Maria del Gesu. **remarks:**
Vigorous and very productive, early. Perennial.
Cultivar. Cutting.
- PI 557173 **origin:** Italy. **cultivar:** Tonda di Biglini. Perennial.
Cultivar. Cutting.
- PI 557174 **origin:** Italy. **cultivar:** Mansa. Perennial. Cultivar.
Cutting.

PI 557172 to 557189-continued

- PI 557175 **origin:** Italy. **cultivar:** Siciliana. **pedigree:** Seedling selection. **other id:** Sicilia. **remarks:** Similar to Montebello. Perennial. Cultivar. Cutting.
- PI 557176 **origin:** Italy. **cultivar:** Apolda. **remarks:** Late, pollinates Cosford, Gunslebert, Merveille de Bollwille. Perennial. Cultivar. Cutting.
- PI 557177 **origin:** Italy. **cultivar:** Barbarella. Perennial. Cultivar. Cutting.
- PI 557178 **origin:** Italy. **cultivar:** Comen. **remarks:** Medium-early, medium vigor, good productivity, pollinates Royal, Tonda Romana, Riccia di Talanico. Perennial. Cultivar. Cutting.
- PI 557179 **origin:** Italy. **cultivar:** Nocciolino Sangrato. Perennial. Cultivar. Cutting.
- PI 557180 **origin:** Italy. **cultivar:** Noccone. Perennial. Cultivar. Cutting.
- PI 557181 **origin:** Italy. **cultivar:** Barrettona. **remarks:** Medium-early, pollinates Apolda, Tonda Romana, Cosford, Riccia di Talanico. Perennial. Cultivar. Cutting.
- PI 557182 **origin:** Italy. **cultivar:** Bianca. Perennial. Cultivar. Cutting.
- PI 557183 **origin:** Italy. **cultivar:** Iannusa Racinante. Perennial. Cultivar. Cutting.
- PI 557184 **origin:** Italy. **cultivar:** Comun Aleva. Perennial. Cultivar. Cutting.
- PI 557185 **origin:** Italy. **historical origin:** Italy. **cultivar:** Comune di Sicilia. **other id:** Secondo Alberghina. **other id:** di Nostrale. **other id:** Santa Maria del Gesu. **remarks:** Medium to late, pollinates Tonda Romana, Cosford, Carrello, and Gunslebert. Perennial. Cultivar. Cutting.
- PI 557186 **origin:** Italy. **cultivar:** Locale di Piazza Armerina. Perennial. Cultivar. Cutting.
- PI 557187 **origin:** Italy. **cultivar:** Pallagrossa. **remarks:** Late ripening. Perennial. Cultivar. Cutting.
- PI 557188 **origin:** Italy. **cultivar:** Napoletana. Perennial. Cultivar. Cutting.

PI 557172 to 557189-continued

PI 557189 **origin:** Italy. **historical origin:** Italy. **cultivar:** Carrello. **remarks:** Late, productive. Perennial. Cultivar. Cutting.

PI 557190 to 557192. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Germain, Dr. Eric, INRA, Station Recherches d'Arboriculture, Pont-de-la-Maye, France. Received March 06, 1989.

PI 557190 **origin:** France. **historical origin:** United Kingdom. **cultivar:** Downton. **other id:** Downton Long. Perennial. Cultivar. Cutting.

PI 557191 **origin:** France. **historical origin:** Germany. **cultivar:** Gunslebener Zellernuss. **other id:** Guneslebert. Perennial. Cultivar. Cutting.

PI 557192 **origin:** France. **origin institute:** Centre de Recherches Agronomiques, de Bordeaux, Pont-de-la-Maye. **cultivar:** H.317-5. **pedigree:** Merveille de Bollwiller x Tonda Romana. Perennial. Breeding Material. Cutting.

PI 557193. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Craddock, Dr. Hill, Inst. Frutticoltura Ind., Torino, Italy. Received March 06, 1989.

origin: Italy. **cultivar:** Nociara. Perennial. Cultivar. Cutting.

PI 557194. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Fleury, J.F., Fruits Oblies Sauve Qui Pomme, Maribor, France. Received March 14, 1989.

origin: France. **historical origin:** United Kingdom. **cultivar:** d'Aveline d'Angleterre. Perennial. Cultivar. Cutting.

PI 557195 to 557199. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Hansen, Dr. P., Royal Veterinary and Agricultural, University, Fredericksburg, Denmark. Received April 14, 1989.

PI 557195 **origin:** Denmark. **historical origin:** UNCERTAIN. **cultivar:** Atlas. Perennial. Cultivar. Cutting.

PI 557195 to 557199-continued

- PI 557196 **origin:** Denmark. **historical origin:** Germany. **cultivar:** Heynick's Zellernuss. **pedigree:** Seedling selection. Perennial. Cultivar. Cutting.
- PI 557197 **origin:** Denmark. **historical origin:** UNCERTAIN. **cultivar:** Korthaset Zellernuss. Perennial. Cultivar. Cutting.
- PI 557198 **origin:** Denmark. **historical origin:** UNCERTAIN. **cultivar:** Provence. Perennial. Cultivar. Cutting.
- PI 557199 **origin:** Denmark. **historical origin:** Germany. **cultivar:** Riekchen's Zellernuss. **pedigree:** Seedling selection. Perennial. Cultivar. Cutting.

PI 557200 to 557206. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received February 20, 1990.

- PI 557200 **origin:** Spain. **origin institute:** IRTA Agric. Center, Reus, Tarragona. **cultivar:** Tomasina. Perennial. Cultivar. Cutting.
- PI 557201 **origin:** Spain. **origin institute:** IRTA Agric. Center, Reus, Tarragona. **cultivar:** Ratllada. Perennial. Cultivar. Cutting.
- PI 557202 **origin:** Spain. **cultivar:** Grifoll. **pedigree:** Seedling selection. **other id:** Queixal de Llop. **other id:** Quiexal de gos. **other id:** Queixagos. **remarks:** Second largest cultivated variety in Spain. Perennial. Cultivar. Cutting.
- PI 557203 **origin:** Spain. **origin institute:** IRTA Agric. Center, Reus, Tarragona. **cultivar:** Martorella. Perennial. Cultivar. Cutting.
- PI 557204 **origin:** Spain. **origin institute:** IRTA Agric. Center, Reus, Tarragona. **cultivar:** Planeta. Perennial. Cultivar. Cutting.
- PI 557205 **origin:** Spain. **origin institute:** IRTA Agric. Center, Reus, Tarragona. **cultivar:** Francoli. Perennial. Cultivar. Cutting.
- PI 557206 **origin:** Spain. **historical origin:** Italy. **cultivar:** Belle di Giubilino. Perennial. Cultivar. Cutting.

PI 557207 to 557212. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Solar, Anita, Univ. Edv. Kardelja V Ljubjani, Maribor, Yugoslavia. Received February 23, 1990.

PI 557207 **origin:** Yugoslavia. **historical origin:** Italy. **cultivar:** A pellicola bianca. Perennial. Cultivar. Cutting.

PI 557208 **origin:** Yugoslavia. **historical origin:** Italy. **cultivar:** Fruttogrosso. Perennial. Cultivar. Cutting.

PI 557209 **origin:** Yugoslavia. **cultivar:** Istrska debeloplodna leska. Perennial. Cultivar. Cutting.

PI 557210 **origin:** Yugoslavia. **cultivar:** Istrska okrogloplodna leska. Perennial. Cultivar. Cutting.

PI 557211 **origin:** Yugoslavia. **historical origin:** UNCERTAIN. **cultivar:** Payrone. Perennial. Cultivar. Cutting.

PI 557212 **origin:** Yugoslavia. **historical origin:** UNCERTAIN. **cultivar:** Sodlinger. Perennial. Cultivar. Cutting.

PI 557213 to 557218. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Tamponi, Dr. G., Inst. Sperimentale Frutticoltura, Rome, Italy. Received February 23, 1990.

PI 557213 **origin:** Italy. **origin institute:** Instituta Sperimentale per la, Frutticoltura, Ciampino Aeroporto, Rome 00040. **cultivar:** Avellana Speciale. Perennial. Cultivar. Cutting.

PI 557214 **origin:** Italy. **origin institute:** Instituta Sperimentale per la, Frutticoltura, Ciampino Aeroporto, Rome 00040. **cultivar:** Bearn. **other id:** DuBearn. Perennial. Cultivar. Cutting.

PI 557215 **origin:** Italy. **origin institute:** Instituta Sperimentale per la, Frutticoltura, Ciampino Aeroporto, Rome 00040. **cultivar:** Minnolara. Perennial. Cultivar. Cutting.

PI 557216 **origin:** Italy. **origin institute:** Instituta Sperimentale per la, Frutticoltura, Ciampino Aeroporto, Rome 00040. **cultivar:** Napoletanedda. Perennial. Cultivar. Cutting.

PI 557217 **origin:** Italy. **origin institute:** Instituta Sperimentale per la, Frutticoltura, Ciampino Aeroporto, Rome 00040. **cultivar:** Racinante clone G. Perennial. Breeding Material. Cutting.

PI 557213 to 557218-continued

PI 557218 **origin:** Italy. **origin institute:** Istituto Sperimentale per la Frutticoltura, Ciampino Aeroporto, Rome 00040.
cultivar: Tonnolella. Perennial. Cultivar. Cutting.

PI 557219. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received May 07, 1990.

origin: Bulgaria. **cultivar:** Bulgaria XI-8. **remarks:**
Received propagated from the OSU Variety Plot.
Perennial. Breeding Material. Plant.

PI 557220. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received September 28, 1990.

origin: United States. **historical origin:** Italy.
cultivar: Tonda Gentile Romana. **pedigree:** C. avellana
selection from Italy. **other id:** Tonda Romana. **other id:**
Tonda Gentile di Viterbo. Perennial. Cultivar. Plant.

PI 557221 to 557222. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Germain, Dr. Eric, INRA, Station Recherches d'Arboriculture, Pont-de-la-Maye, France. Received February 01, 1991.

PI 557221 **origin:** France. **historical origin:** Spain. **cultivar:**
Pauetet. **pedigree:** Selection of native Spanish C.
avellana. **other id:** D'en Bardina. Perennial. Cultivar.
Cutting.

PI 557222 **origin:** France. **historical origin:** Italy. **cultivar:**
Tonda di Biglini. Perennial. Cultivar. Cutting.

PI 557223 to 557225. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Pereira, J.G., INIA, Est. Nac. de Fruit., Alcobaca, Portugal. Received February 01, 1991.

PI 557223 **origin:** Portugal. **historical origin:** UNCERTAIN.
cultivar: Comun. Perennial. Cultivar. Cutting.

PI 557223 to 557225-continued

PI 557224 **origin:** Portugal. **historical origin:** UNCERTAIN.
cultivar: da Viega. Perennial. Cultivar. Cutting.

PI 557225 **origin:** Portugal. **historical origin:** UNCERTAIN.
cultivar: Molar. Perennial. Cultivar. Cutting.

PI 557226 to 557232. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Romisondo, Prof. P., Istituto di Frutticoltura Ind.,
Universita di Torino, Via Ormea 99, Torino, Italy. Received
February 01, 1991.

PI 557226 **origin:** Italy. **origin institute:** Istituto di
Frutticoltura Industriale, dell Universita di Torino, Via
Ormea, 99, Torino 10126. **cultivar:** TGDL x Cosford sel.
119. **pedigree:** Tonda Gentile delle Langhe x Cosford
selection. **remarks:** Nuts 48-50% kernel, kernels hard,
medium fiber, poor pellicle removal, shell medium-thick.
Perennial. Breeding Material. Cutting.

PI 557227 **origin:** Italy. **origin institute:** Istituto di
Frutticoltura Industriale, dell Universita di Torino, Via
Ormea, 99, Torino 10126. **cultivar:** TGDL x Cosford sel.
104E. **pedigree:** Tonda Gentile delle Langhe x Cosford
selection. **remarks:** Nuts 48-54% kernel, kernels hard,
little fiber, very good pellicle removal, shell
medium-thick. Perennial. Breeding Material. Cutting.

PI 557228 **origin:** Italy. **origin institute:** Istituto di
Frutticoltura Industriale, dell Universita di Torino, Via
Ormea, 99, Torino 10126. **cultivar:** TGDL x Cosford sel.
123F. **pedigree:** Tonda Gentile delle Langhe x Cosford
selection. **remarks:** Nuts 45-47% kernel, kernels hard,
little fiber, good pellicle removal, shell medium-thick.
Perennial. Breeding Material. Cutting.

PI 557229 **origin:** Italy. **origin institute:** Istituto di
Frutticoltura Industriale, dell Universita di Torino, Via
Ormea, 99, Torino 10126. **cultivar:** Payrone x Gentile di
Viterbo Sel. G/1. **pedigree:** Tonda Gentile delle Langhe x
Cosford selection. **remarks:** Nuts 50-55% kernel, kernels
medium soft, high fiber, good pellicle removal, shell
medium-thick. Perennial. Breeding Material. Cutting.

PI 557230 **origin:** Italy. **origin institute:** Istituto di
Frutticoltura Industriale, dell Universita di Torino, Via
Ormea, 99, Torino 10126. **cultivar:** TGDL x Cosford sel.
101. **pedigree:** Tonda Gentile delle Langhe x Cosford
selection. **remarks:** Nuts 51-56% kernel, kernels medium
soft, medium fiber, very good pellicle removal, shell
thin. Perennial. Breeding Material. Cutting.

PI 557226 to 557232-continued

PI 557231 **origin:** Italy. **origin institute:** Istituto di Frutticoltura Industriale, dell Università di Torino, Via Ormea, 99, Torino 10126. **cultivar:** TGDL x Cosford sel. 3L. **pedigree:** Tonda Gentile delle Langhe x Cosford selection. **remarks:** Nuts 52-56% kernel, kernels medium soft, medium fiber, good pellicle removal, shell medium-thick. Perennial. Breeding Material. Cutting.

PI 557232 **origin:** Italy. **origin institute:** Istituto di Frutticoltura Industriale, dell Università di Torino, Via Ormea, 99, Torino 10126. **cultivar:** TGDL x Cosford sel. 104F. **pedigree:** Tonda Gentile delle Langhe x Cosford selection. **remarks:** Nuts 42-48% kernel, kernels hard, medium fiber, poor pellicle removal, shell medium-thick. Perennial. Breeding Material. Cutting.

PI 557233 to 557234. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received May 01, 1991.

PI 557233 **origin:** United States. **historical origin:** Italy. **cultivar:** Roma 1. Perennial. Cultivar. Plant.

PI 557234 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** Willamette. **pedigree:** Montebello x Compton. Perennial. Cultivar. Plant.

PI 557235 to 557243. *Corylus avellana* L. BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received February 1991.

PI 557235 **origin:** United States. **historical origin:** Spain. **cultivar:** Ceret. Perennial. Cultivar. Cutting.

PI 557236 **origin:** United States. **historical origin:** Spain. **cultivar:** Espinaredo. **remarks:** Originated in Northern Spain, in the same area as the cultivar Casina. Perennial. Cultivar. Cutting.

PI 557237 **origin:** United States. **historical origin:** Turkey. **cultivar:** Karidaty. Perennial. Cultivar. Cutting.

PI 557238 **origin:** United States. **historical origin:** France. **cultivar:** Fructo Albo. **other id:** White Lambert. Perennial. Cultivar. Cutting.

PI 557235 to 557243-continued

- PI 557239 **origin:** United States. **historical origin:** Italy.
cultivar: Bella di Giubilino. Perennial. Cultivar. Cutting.
- PI 557240 **origin:** United States. **historical origin:** Turkey.
cultivar: Kalinkara. Perennial. Cultivar. Cutting.
- PI 557241 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Bard. Perennial. Cultivar. Cutting.
- PI 557242 **origin:** United States. **historical origin:** Turkey.
cultivar: Incekara. Perennial. Cultivar. Cutting.
- PI 557243 **origin:** United States. **historical origin:** Spain.
cultivar: Amandi. **remarks:** Originated in Northern Spain.
Perennial. Cultivar. Cutting.

PI 557244. *Corylus colurna* L. BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 13,
1984.

origin: UNCERTAIN. **historical origin:** United States.
origin institute: NCGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon. Perennial. Breeding Material.
Plant.

PI 557245. *Corylus colurna* L. BETULACEAE Filbert (Hazel)

Donated by: Parfitt, Dr. Dan, USDA/ARS/NCGR-Davis, University of
California, Davis, California, United States. Received January 26,
1988.

origin: United States. **historical origin:** UNCERTAIN.
cultivar: Turk. **pedigree:** Selection of *C. colurna* -
possibly a hybrid. Perennial. Cultivar. Cutting.

PI 557246. *Corylus colurna* L. BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 15,
1989.

origin: Canada. **origin institute:** Gellatly Nursery,
Westbank, British Columbia. **cultivar:** Gellatly No. 1.
pedigree: Seedling selection. **local name:** Chineze
Trazel. **remarks:** Non-suckering rootstock selection.
Perennial. Breeding Material. Cutting.

PI 557247 to 557250. *Corylus colurna* L. BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received February 09, 1990.

- PI 557247 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** X-13. **pedigree:** Open-pollinated seedling selection. Perennial. Breeding Material. Plant.
- PI 557248 **origin:** UNCERTAIN. **pedigree:** Originally collected from the wild. **remarks:** This clone was brought to Oregon by the Forestry Dept. at Oregon State University. Perennial. Cultivated. Plant.
- PI 557249 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** X-11. **pedigree:** Open pollinated seedling selection. Perennial. Breeding Material. Plant.
- PI 557250 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** N-13. **pedigree:** Open pollinated seedling selection. Perennial. Breeding Material. Plant.
- PI 557251 to 557256. *Corylus colurna* L. BETULACEAE Filbert (Hazel)
- Donated by:** Germain, Dr. Eric, INRA, Station Recherches d'Arboriculture, Pont-de-la-Maye, France. Received February 23, 1990.
- PI 557251 **origin:** Hungary. **historical origin:** France. **origin institute:** INRA, Centre de Recherches de Bordeaux, Sta. Rech. d'Arboriculture Fruitiere, Port-dela-Maye, BP131 33140. **pedigree:** Selection. Perennial. Breeding Material. Cutting.
- PI 557252 **origin:** Switzerland. **historical origin:** France. **origin institute:** INRA, Centre de Recherches de Bordeaux, Sta. Rech. d'Arboriculture Fruitiere, Port-dela-Maye, BP131 33140. **pedigree:** Selection. Perennial. Breeding Material. Cutting.
- PI 557253 **origin:** Poland. **historical origin:** France. **origin institute:** INRA, Centre de Recherches de Bordeaux, Sta. Rech. d'Arboriculture Fruitiere, Port-dela-Maya, BP131 33140. **pedigree:** Selection. Perennial. Breeding Material. Cutting.

PI 557251 to 557256-continued

PI 557254 **origin:** Poland. **historical origin:** France. **origin institute:** INRA, Centre de Recherches de Bordeaux, Sta. Rech. d'Arboriculture Fruitiere, Port-dela-Maye, BP131 33140. **pedigree:** Selection. **remarks:** The public garden was near the French Embassy in Varsavie. Perennial. Breeding Material. Cutting.

PI 557255 **origin:** Czechoslovakia. **historical origin:** France. **origin institute:** INRA, Centre de Recherches de Bordeaux, Sta. Rech. d'Arboriculture Fruitiere, Port-dela-Maye, BP131 33140. **pedigree:** Selection. Perennial. Breeding Material. Cutting.

PI 557256 **origin:** Germany. **historical origin:** France. **origin institute:** INRA, Centre de Recherches de Bordeaux, Sta. Rech. d'Arboriculture Fruitiere, BP 131 33140. **pedigree:** Selection. Perennial. Breeding Material. Cutting.

PI 557257 to 557258. *Corylus colurna* L. BETULACEAE Filbert (Hazel)

Donated by: Germain, Dr. Eric, INRA, Station Recherches d'Arboriculture, Pont-de-la-Maye, France. Received February 01, 1991.

PI 557257 **origin:** France. **origin institute:** INRA, Centre des Recherches de Bordeaux, Station des Recherches d'Arboriculture, Pont-de-la-Maye. **cultivar:** N435-1. Perennial. Breeding Material. Plant.

PI 557258 **origin:** France. **origin institute:** INRA, Centre des Recherches de Bordeaux, Station des Recherches d'Arboriculture, Pont-de-la-Maye. **cultivar:** N471-1. Perennial. Breeding Material. Plant.

PI 557259. *Corylus colurna* var. *chinensis* (Franchet) Burkill
BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received January 12, 1981.

origin: United States. **historical origin:** United States. **origin institute:** Private Breeder, Nooksack, Washington. **cultivar:** Nooksack. **pedigree:** Chance seedling of Kentish Cob. **remarks:** Productive, growth habit similar to DuChilly but more spreading, pollinates DuChilly and late bloom of Barcelona. Perennial. Cultivar. Plant.

PI 557260. *Corylus colurna* var. *chinensis* (Franchet) Burkill
BETULACEAE Filbert (Hazel)

Donated by: Thompson, Dr. M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received January 29, 1982.

origin: United States. **local name:** Chinese Filbert.
Perennial. Cultivated. Plant.

PI 557261. *Corylus colurna* var. *chinensis* (Franchet) Burkill
BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received February 28, 1984.

origin: Canada. **origin institute:** Gellatly Nursery, Westbank, British Columbia. **cultivar:** Chinese Trazel Gellatly-6. **pedigree:** Seedling selection. **collected:** April 03, 1970. Perennial. Breeding Material. Plant.

PI 557262 to 557265. *Corylus colurna* var. *chinensis* (Franchet) Burkill
BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received March 22, 1984.

PI 557262 **origin:** United States. **origin institute:** Private Grower/breeder, Rt. 1, Box 190, Boring, Oregon 97009. **cultivar:** Chinese Trazel J-2. **pedigree:** Seedling selection. **collected:** 1972. Perennial. Breeding Material. Plant.

PI 557263 **origin:** United States. **origin institute:** Private Grower/breeder, Rt. 1, Box 190, Boring, Oregon 97009. **cultivar:** Chinese Trazel J-1. **pedigree:** Seedling selection. **collected:** 1972. Perennial. Breeding Material. Plant.

PI 557264 **origin:** Canada. **origin institute:** Gellatly Nursery, Westbank, British Columbia. **cultivar:** Chinese Trazel Gellatly-11. **pedigree:** Seedling selection. **collected:** April 03, 1970. Perennial. Breeding Material. Plant.

PI 557265 **origin:** Canada. **origin institute:** Gellatly Nursery, Westbank, British Columbia. **cultivar:** Chinese Trazel Gellatly-4. **pedigree:** Seedling selection. **collected:** April 03, 1970. Perennial. Breeding Material. Plant.

PI 557266. *Corylus columna* var. *chinensis* (Franchet) Burkill
BETULACEAE Filbert (Hazel)

Donated by: Leutert, J.L., Manjimur, Australia. Received July 24, 1989.

origin: China. **historical origin:** Australia. **origin institute:** Private Breeder, PO Box 689, Manjimur, Western Australia 6258. **pedigree:** Seedling selection from seedlot collected in China. Perennial. Breeding Material. Cutting.

PI 557267. *Corylus columna* var. *lacera* (Wallich) A. DC. BETULACEAE
Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received January 12, 1981.

origin: Nepal. **pedigree:** Collected from the wild in Nepal. **local name:** Jaquemont Filbert. **locality:** Himalayan Mountains. **latitude:** 28 deg. 00 min. N. **longitude:** 084 deg. 30 min. E. **remarks:** Originally collected by the Jaquemont expedition to the Himalayas. Perennial. Cultivated. Plant.

PI 557268. *Corylus columna* var. *lacera* (Wallich) A. DC. BETULACEAE
Filbert (Hazel)

Donated by: Thompson, Dr. M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received January 12, 1989.

origin: Pakistan. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from Pakistani seedlot. **local name:** Mazeer (in Kohistani), Jungli Badam (in Urdu). Perennial. Breeding Material. Plant.

PI 557269. *Corylus cornuta* Marshall BETULACEAE Filbert (Hazel)

Donated by: Weiser, C.J., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received February 09, 1983.

origin: United States. **pedigree:** Collected from the wild in Minnesota. **local name:** Beaked Filbert. **collected:** August 31, 1982. **locality:** Hackensack (near Brainerd, MN). **latitude:** 46 deg. 30 min. N. **longitude:** 94 deg. 20 min. W. **elevation:** 400m. Perennial. Wild. Plant.

PI 557270. *Corylus cornuta* Marshall BETULACEAE Filbert (Hazel)

Donated by: Jahn, Dr. Otto, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 28, 1983.

origin: United States. **pedigree:** Scionwood collected from wild in Oregon. **local name:** Beaked Filbert. **collected:** February 19, 1983. **locality:** At Suttle Lake near Sisters, OR. **latitude:** 44 deg. 21 min. N. **longitude:** 121 deg. 32 min. W. **elevation:** 2000m. Perennial. Wild. Plant.

PI 557271. *Corylus cornuta* Marshall BETULACEAE Filbert (Hazel)

Donated by: Jahn, Dr. Otto, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 10, 1984.

origin: United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Oregon seedlot. **local name:** Beaked Filbert, Beaked Hazelnut. Perennial. Breeding Material. Plant.

PI 557272. *Corylus cornuta* Marshall BETULACEAE Filbert (Hazel)

Donated by: Jahn, Dr. Otto, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 15, 1986.

origin: United States. **pedigree:** Collected from the wild in California. **local name:** Beaked Filbert. **collected:** August 08, 1986. **locality:** Plumas Nat'l Forest near Haphazard Creek Bridge. **latitude:** 39 deg. 40 min. N. **longitude:** 121 deg. 35 min. W. **elevation:** 1280m. Perennial. Wild. Plant.

PI 557273. *Corylus cornuta* Marshall BETULACEAE Filbert (Hazel)

Donated by: Smith, D., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received March 14, 1990.

origin: Canada. **historical origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, Corvallis, Oregon. Perennial. Breeding Material. Cutting.

PI 557274 to 557278. *Corylus cornuta* Marshall BETULACEAE Filbert
(Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received May 01, 1991.

PI 557274 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** C. cornuta #8/D. Perennial. Breeding Material. Plant.

PI 557275 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** C. cornuta #2/S. Perennial. Breeding Material. Plant.

PI 557276 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** C. cornuta #3. Perennial. Breeding Material. Plant.

PI 557277 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** C. cornuta #15. Perennial. Breeding Material. Plant.

PI 557278 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** C. cornuta #16. Perennial. Breeding Material. Plant.

PI 557279. *Corylus cornuta* var. *californica* (A. DC.) W. Sharp
BETULACEAE Filbert (Hazel)

Donated by: Kyriss, Camille, Sweet Home, Oregon, United States.
Received April 28, 1983.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Beaked Filbert. **collected:** September 30, 1982. **locality:** Sweethome, OR. **latitude:** 44 deg. 30 min. N. **longitude:** 122 deg. 40 min. W. **elevation:** 330m. Perennial. Wild. Plant.

PI 557280 to 557291. *Corylus cornuta* var. *californica* (A. DC.) W. Sharp
BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received January 23, 1988.

- PI 557280 **origin:** United States. **historical origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 61-4. **pedigree:** Selected from the wild in Washington. **local name:** Beaked Filbert. **locality:** Lewis County. **latitude:** 46 deg. 30 min. N. **longitude:** 122 deg. 10 min. W. Perennial. Breeding Material. Cutting.
- PI 557281 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 27-5. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Hood River County. **latitude:** 45 deg. 40 min. N. **longitude:** 121 deg. 50 min. W. Perennial. Breeding Material. Cutting.
- PI 557282 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 49-2. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Clatsop County. **latitude:** 46 deg. N. **longitude:** 123 deg. 45 min. W. Perennial. Breeding Material. Cutting.
- PI 557283 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 58-5. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Columbia County. **latitude:** 46 deg. N. **longitude:** 123 deg. W. Perennial. Breeding Material. Cutting.
- PI 557284 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 52-5. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Multnomah County. **latitude:** 45 deg. 30 min. N. **longitude:** 122 deg. 45 min. W. Perennial. Breeding Material. Cutting.
- PI 557285 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 51-3. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Multnomah County. **latitude:** 45 deg. 30 min. N. **longitude:** 122 deg. 45 min. W. Perennial. Breeding Material. Cutting.

PI 557280 to 557291-continued

- PI 557286 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 59-1. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Douglas County. **latitude:** 43 deg. 10 min. N. **longitude:** 123 deg. 25 min. W. Perennial. Breeding Material. Cutting.
- PI 557287 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 23-6. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Washington County. **latitude:** 45 deg. 40 min. N. **longitude:** 123 deg. 15 min. W. Perennial. Breeding Material. Cutting.
- PI 557288 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 21-5. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Lincoln County. **latitude:** 44 deg. 45 min. N. **longitude:** 123 deg. 50 min. W. Perennial. Breeding Material. Cutting.
- PI 557289 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center; Corvallis, Oregon 97331. **cultivar:** 13-4. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Marion County. **latitude:** 44 deg. 50 min. N. **longitude:** 122 deg. 45 min. W. Perennial. Breeding Material. Cutting.
- PI 557290 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 10-6. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Benton County. **latitude:** 44 deg. 30 min. N. **longitude:** 123 deg. 30 min. W. Perennial. Breeding Material. Cutting.
- PI 557291 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon 97331. **cultivar:** 45-6. **pedigree:** Selected from the wild in Oregon. **local name:** Beaked Filbert. **locality:** Lane County. **latitude:** 44 deg. N. **longitude:** 122 deg. 50 min. W. Perennial. Breeding Material. Cutting.

PI 557292. *Corylus cornuta* var. *californica* (A. DC.) W. Sharp
BETULACEAE Filbert (Hazel)

Donated by: Archer, Jon, Woodacre, California, United States.
Received September 28, 1989.

origin: United States. **pedigree:** Collected from the wild in California. **local name:** Beaked Filbert. **collected:** 1989. **locality:** Marin County. **latitude:** 38 deg. 00 min. N. **longitude:** 122 deg. 20 min. W. **remarks:** 5 of these seed were germinated Sept. 28, 1989. Perennial. Wild. Seed.

PI 557293 to 557300. *Corylus cornuta* var. *californica* (A. DC.) W. Sharp
BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received February 09, 1990.

PI 557293 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon. **cultivar:** 13-3. **pedigree:** Selected from the wild in Oregon. **locality:** Marion County. **latitude:** 44 deg. 50 min. N. **longitude:** 122 deg. 40 min. W. Perennial. Breeding Material. Plant.

PI 557294 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon. **cultivar:** 3-6. **pedigree:** Selected from the wild in Oregon. **locality:** Polk County. **latitude:** 44 deg. 50 min. N. **longitude:** 123 deg. 30 min. W. Perennial. Breeding Material. Plant.

PI 557295 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon. **cultivar:** 25-5. **pedigree:** Selected from the wild in Oregon. **locality:** Hood River. **latitude:** 45 deg. 40 min. N. **longitude:** 121 deg. 30 min. W. Perennial. Breeding Material. Plant.

PI 557296 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon. **cultivar:** 65-3. **pedigree:** Selected from the wild in Oregon (?). Perennial. Breeding Material. Plant.

PI 557297 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon. **cultivar:** 20-6. **pedigree:** Selected from the wild in Oregon. **locality:** Benton County. **latitude:** 44 deg. 30 min. N. **longitude:** 123 deg. 30 min. W. Perennial. Breeding Material. Plant.

PI 557293 to 557300-continued

PI 557298 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon. **cultivar:** 41-2. **pedigree:** Selected from the wild in Oregon. **locality:** Tillamook County. **latitude:** 45 deg. 30 min. N. **longitude:** 123 deg. 45 min. W. Perennial. Breeding Material. Plant.

PI 557299 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon. **cultivar:** 53-4. **pedigree:** Selected from the wild in Oregon. **locality:** Multnomah County. **latitude:** 45 deg. 35 min. N. **longitude:** 122 deg. 20 min. W. Perennial. Breeding Material. Plant.

PI 557300 **origin:** United States. **origin institute:** Soil Conservation Service, Plant Materials Center, Corvallis, Oregon. **cultivar:** 13-5. **pedigree:** Selected from the wild in Oregon. **locality:** Marion County. **latitude:** 44 deg. 50 min. N. **longitude:** 122 deg. 40 min. W. Perennial. Breeding Material. Plant.

PI 557301. *Corylus cornuta* var. *californica* (A. DC.) W. Sharp
BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received May 07, 1990.

origin: United States. **origin institute:** Oregon State University, Department of Horticulture, Corvallis, Oregon. **pedigree:** Selection from the wild from Oregon. **other id:** #18. **remarks:** Received propagated from the OSU Variety Plot. Perennial. Breeding Material. Plant.

PI 557302. *Corylus ferox* Wallich BETULACEAE Filbert (Hazel)

Donated by: Gustofson, William, University of Nebraska, Lincoln, Nebraska, United States. Received March 15, 1985.

origin: China. **pedigree:** Collected from the wild in China. **collected:** 1982. Perennial. Wild. Plant.

PI 557303. *Corylus ferox* var. *thibetica* (Batalin) Franchet BETULACEAE
Filbert (Hazel)

Donated by: Thompson, Dr. M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received January 12, 1981.

PI 557303-continued

origin: UNKNOWN. **pedigree:** This appears to be a hybrid of some sort. **local name:** Tibetan Filbert. **locality:** Asia. **remarks:** Originally received as *C. tibetica*. Perennial. Cultivated. Plant.

PI 557304. *Corylus ferox* var. *thibetica* (Batalin) Franchet BETULACEAE
Filbert (Hazel)

Donated by: Wei, Liang, Jian Economic Forest Research Inst.,
Liaoning, China. Received March 25, 1988.

origin: China. **pedigree:** Collected from the wild in
China. **collected:** 1988. **latitude:** 30 deg. N.
longitude: 110 deg. E. Perennial. Wild. Cutting.

PI 557305. *Corylus ferox* var. *thibetica* (Batalin) Franchet BETULACEAE
Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 26,
1988.

origin: China. **historical origin:** United States. **origin
institute:** NCGR-Corvallis, 33447 Peoria Road, Corvallis,
Oregon. **pedigree:** Seedling selection from Chinese
seedlot. Perennial. Breeding Material. Plant.

PI 557306. *Corylus heterophylla* Fischer ex Trautv. BETULACEAE Filbert
(Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 12,
1981.

origin: UNKNOWN. **local name:** Siberian Filbert.
locality: Asia. Perennial. Cultivated. Plant.

PI 557307 to 557308. *Corylus heterophylla* Fischer ex Trautv.
BETULACEAE Filbert (Hazel)

Donated by: Thompson, Dr. M.M., Oregon State University, Department
of Horticulture, Corvallis, Oregon, United States. Received January
12, 1981.

PI 557307 **origin:** Korea, Republic of. **local name:** Siberian
Filbert. Perennial. Cultivated. Plant.

PI 557307 to 557308-continued

PI 557308 **origin:** Korea, Republic of. **local name:** Siberian
Filbert. Perennial. Cultivated. Plant.

PI 557309. *Corylus heterophylla* Fischer ex Trautv. BETULACEAE Filbert
(Hazel)

Donated by: Westwood, M.N., USDA/ARS/NCGR-Corvallis, 33447 Peoria
Road, Corvallis, Oregon, United States. Received April 28, 1983.

origin: Korea, Republic of. **historical origin:** United
States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon. **pedigree:** Seedling
selection from wild Korean seedlot CCOR 533. Perennial.
Breeding Material. Plant.

PI 557310. *Corylus heterophylla* Fischer ex Trautv. BETULACEAE Filbert
(Hazel)

Donated by: Rui, Hao, Jilin Agricultural University, Dept.
Horticulture, Changchun, Jilin, China. Received December 21, 1983.

origin: China. **historical origin:** United States. **origin
institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon. **pedigree:** Seedling selection from
wild Chinese seedlot CCOR 536. Perennial. Breeding
Material. Plant.

PI 557311. *Corylus heterophylla* Fischer ex Trautv. BETULACEAE Filbert
(Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received February
29, 1984.

origin: China. **historical origin:** Canada. **origin
institute:** Gellatly Nurseries, Westbank, British
Columbia. **pedigree:** Seedling selection from Chinese
seedlot. **local name:** Nanking (Siberian Filbert).
collected: April 03, 1970. Perennial. Breeding
Material. Plant.

PI 557312 to 557314. *Corylus heterophylla* Fischer ex Trautv.
BETULACEAE Filbert (Hazel)

Donated by: Wei, Liang, Jian Economic Forest Research Inst.,
Liaoning, China. Received March 25, 1988.

PI 557312 to 557314-continued

PI 557312 **origin:** China. **pedigree:** Collected from the wild in China. **collected:** 1988. **latitude:** 30 deg. N. **longitude:** 110 deg. E. Perennial. Wild. Cutting.

PI 557313 **origin:** China. **origin institute:** Jian Economic Forestry Research Inst., Dalian, Liaoning. **pedigree:** Selected from the wild in China. **latitude:** 30 deg. N. **longitude:** 110 deg. E. Perennial. Breeding Material. Cutting.

PI 557314 **origin:** China. **pedigree:** Collected from the wild in China. **collected:** 1988. **latitude:** 30 deg. N. **longitude:** 110 deg. E. Perennial. Wild. Cutting.

PI 557315. *Corylus heterophylla* Fischer ex Trautv. BETULACEAE Filbert (Hazel)

Donated by: Lee, Dr. P., Horticultural Experiment Sta., Suweon, Korea, Republic of. Received February 15, 1989.

origin: Korea, Republic of. **origin institute:** Horticultural Experiment Station, Suweon. Perennial. Breeding Material. Cutting.

PI 557316 to 557319. *Corylus heterophylla* Fischer ex Trautv. BETULACEAE Filbert (Hazel)

Donated by: Lee, Dr. P., Horticultural Experiment Sta., Suweon, Korea, Republic of. Received May 01, 1989.

PI 557316 **origin:** Korea, Republic of. **origin institute:** Horticultural Experiment Station, Suweon. Perennial. Breeding Material. Cutting.

PI 557317 **origin:** Korea, Republic of. **origin institute:** Horticultural Experiment Station, Suweon. Perennial. Breeding Material. Cutting.

PI 557318 **origin:** Korea, Republic of. **origin institute:** Horticultural Experiment Station, Suweon. Perennial. Breeding Material. Cutting.

PI 557319 **origin:** Korea, Republic of. **origin institute:** Horticultural Experiment Station, Suweon. Perennial. Breeding Material. Cutting.

PI 557320. *Corylus heterophylla* Fischer ex Trautv. BETULACEAE Filbert
(Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 15,
1989.

origin: China. **historical origin:** United States. **origin
institute:** USDA/ARS, Oregon State University, Corvallis,
Oregon. **cultivar:** Nanking. **pedigree:** Probably a
seedling selection from a Chinese seedlot. Perennial.
Breeding Material. Cutting.

PI 557321. *Corylus heterophylla* Fischer ex Trautv. BETULACEAE Filbert
(Hazel)

Donated by: Gu, Yin, Nanjing Botanical Gardens, Nanjing, Jiangsu,
China. Received January 29, 1990.

origin: China. **pedigree:** Open pollinated from botanical
collection. Perennial. Cultivated. Seed.

PI 557322 to 557325. *Corylus heterophylla* Fischer ex Trautv.
BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department
of Horticulture, Corvallis, Oregon, United States. Received
February 23, 1990.

PI 557322 **origin:** Korea, Republic of. **origin institute:** Seoul
National University, Suweon Experiment Station, Suweon.
pedigree: Selection. **remarks:** One of the 4 best of
40,000 selections of native *C. heter.* Perennial.
Breeding Material. Cutting.

PI 557323 **origin:** Korea, Republic of. **origin institute:** Seoul
National University, Suweon Experiment Station, Suweon.
pedigree: Selection. **remarks:** One of the 4 best of
40,000 selections of native *C. heter.* Perennial.
Breeding Material. Cutting.

PI 557324 **origin:** Korea, Republic of. **origin institute:** Seoul
National University, Suweon Experiment Station, Suweon.
pedigree: Selection. **remarks:** One of the 4 best of
40,000 selections of native *C. heter.* Perennial.
Breeding Material. Cutting.

PI 557325 **origin:** Korea, Republic of. **origin institute:** Seoul
National University, Suweon Experiment Station, Suweon.
pedigree: Selection. **remarks:** One of the 4 best of
40,000 selections of native *C. heter.* Perennial.
Breeding Material. Cutting.

PI 557326. *Corylus heterophylla* var. *sutchuenensis* Franchet BETULACEAE
Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 15,
1989.

origin: China. **local name:** Szechwan Filbert, Siberian
Filbert. Perennial. Cultivated. Plant.

PI 557327. *Corylus heterophylla* var. *sutchuenensis* Franchet BETULACEAE
Filbert (Hazel)

Donated by: Gu, Yin, Nanjing Botanical Gardens, Nanjing, Jiangsu,
China. Received January 29, 1990.

origin: China. **pedigree:** Open pollinated from botanical
collection. Perennial. Cultivated. Seed.

PI 557328. *Corylus heterophylla* var. *thunbergii* Blume BETULACEAE
Filbert (Hazel)

Donated by: Cho, H.M., Horticultural Experiment Station, Suweon,
Korea, Republic of. Received April 28, 1983.

origin: Korea, Republic of. **historical origin:** United
States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon. **pedigree:** Seedling
selection from Korean seedlot CCOR 531. Perennial.
Breeding Material. Plant.

PI 557329. *Corylus heterophylla* var. *yunnanensis* Franchet BETULACEAE
Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 12,
1981.

origin: China. **local name:** Yunnan Filbert, Siberian
Filbert. Perennial. Cultivated. Plant.

PI 557330. *Corylus heterophylla* var. *yunnanensis* Franchet BETULACEAE
Filbert (Hazel)

Donated by: Wei, Liang, Jian Economic Forest Research Inst.,
Liaoning, China. Received March 25, 1988.

origin: China. **pedigree:** Collected from the wild in
China. **collected:** 1988. **latitude:** 30 deg. N.
longitude: 110 deg. E. Perennial. Wild. Cutting.

PI 557331 to 557333. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received January 12, 1981.

PI 557331 **origin:** United States. **historical origin:** Canada.
origin institute: Gellatly Nursery, West Bank, British Columbia. **cultivar:** Morrisoka. **pedigree:** C. columna x large-fruited C. avellana cultivar. Perennial.
Cultivar. Plant.

PI 557332 **origin:** United States. **origin institute:** Private grower/breeder, Rt. 1, Box 190, Boring, Oregon 97009.
cultivar: Filcorn. **pedigree:** C. avellana x C. columna open pollinated. Perennial. Cultivar. Plant.

PI 557333 **origin:** United States. **historical origin:** Canada.
origin institute: Gellatly Nursery, Westbank, British Columbia. **cultivar:** Laroka. **pedigree:** C. columna x large-fruited C. avellana cultivar. **collected:** April 03, 1970. Perennial. Cultivar. Plant.

PI 557334 to 557336. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Thompson, Dr. M.M., Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received March 01, 1983.

PI 557334 **origin:** United States. **historical origin:** United States.
cultivar: Buchanan. **pedigree:** Rush x Barcelona.
remarks: Hardy, productive, nut resembles Bixby except longer and more slender, shell thicker. Perennial.
Cultivar. Plant.

PI 557335 **origin:** United States. **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331.
cultivar: OSU Cross No. 22. **pedigree:** Tonda G. Delle L. x 107-75: Cross No. 22. Perennial. Breeding Material.
Plant.

PI 557336 **origin:** United States. **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331.
cultivar: OSU Cross No. 69. **pedigree:** 39-117 x 106-82: Cross No. 69. Perennial. Breeding Material. Plant.

PI 557337 to 557341. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Reisch, Bruce, Cornell University, NY State Ag. Exp. Sta., Dept. Hort. and Viticulture, Geneva, New York, United States. Received October 01, 1982.

PI 557337 to 557341-continued

- PI 557337 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 104. **pedigree:** Selection of Rush x Kentish Cob (americana x avellana). Perennial. Breeding Material. Plant.
- PI 557338 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 110. **pedigree:** Selection of Rush x Kentish Cob (americana x avellana). Perennial. Breeding Material. Plant.
- PI 557339 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY F-45. **pedigree:** Selection of Snyder x NY 485 (americana x avellana). Perennial. Breeding Material. Plant.
- PI 557340 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 200. **pedigree:** Selection of Rush x Bollwiller (americana x avellana). Perennial. Breeding Material. Plant.
- PI 557341 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 616. **pedigree:** Selection of Rush x Barcelona (americana x avellana). Perennial. Breeding Material. Plant.

PI 557342. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received January 13, 1984.

origin: United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331.
cultivar: USOR 5-70. **pedigree:** OP seedling sel. of Turkish Trazel J-4 (columna x avellana). Perennial. Breeding Material. Plant.

PI 557343 to 557356. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received February 28, 1984.

PI 557343 to 557356-continued

- PI 557343 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** BR-3-1. **pedigree:** C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557344 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** BR-3-3. **pedigree:** C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557345 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** BR-3-4. **pedigree:** C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557346 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** BR-3-5. **pedigree:** C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557347 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** BR-3-6. **pedigree:** C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557348 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** BR-4-1. **pedigree:** C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557349 **origin:** United States. **origin institute:** Private Breeder, Lansing, Michigan. **cultivar:** Moturk-D. **pedigree:** Morrisoka x C.columna. Perennial. Breeding Material. Plant.
- PI 557350 **origin:** United States. **origin institute:** Private Breeder, Lansing, Michigan. **cultivar:** Estrella No.1. **pedigree:** C. heterophylla setchuenensis x Holder. Perennial. Breeding Material. Plant.
- PI 557351 **origin:** United States. **origin institute:** Private Breeder, Lansing, Michigan. **cultivar:** Estrella No.2. **pedigree:** C. heterophylla sutchuenensis x Holder. Perennial. Breeding Material. Plant.
- PI 557352 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 13-70. **pedigree:** OP seedling selection of Filcorn (columna x avellana). Perennial. Breeding Material. Plant.

PI 557343 to 557356-continued

- PI 557353 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 1-72. **pedigree:** OP seedling selection of Filcorn (columna x avellana). **collected:** February 28, 1984. Perennial. Breeding Material. Plant.
- PI 557354 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 1-73. **pedigree:** OP seedling selection of Filcorn (columna x avellana). Perennial. Breeding Material. Plant.
- PI 557355 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 6-73. **pedigree:** OP seedling selection of Filcorn (columna x avellana). Perennial. Breeding Material. Plant.
- PI 557356 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 7-73. **pedigree:** Selection of C. columna x C. avellana. **collected:** February 28, 1984. Perennial. Breeding Material. Plant.

PI 557357 to 557378. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received March 22, 1984.

- PI 557357 **origin:** United States. **historical origin:** Canada. **origin institute:** Gellatly Nursery, Westbank, British Columbia. **cultivar:** Eastoka. **pedigree:** C. columna x large-fruited C. avellana cultivar. Perennial. Cultivar. Plant.
- PI 557358 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 4-70. **pedigree:** OP selection of Turkish Trazel J-4 (columna x avellana). Perennial. Breeding Material. Plant.
- PI 557359 **origin:** United States. **origin institute:** Private Breeder, Lansing, Michigan. **cultivar:** Moturk-B. **pedigree:** Morrisoka x C. columna. Perennial. Breeding Material. Plant.
- PI 557360 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR-8-73. **pedigree:** Selection of C. columna x C. avellana. Perennial. Breeding Material. Plant.

- PI 557361 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 2-73. **pedigree:** OP seedling selection of Filcorn (columna x avellana). Perennial. Breeding Material. Plant.
- PI 557362 **origin:** United States. **historical origin:** Canada. **origin institute:** Gellatly Nursery, Westbank, British Columbia. **cultivar:** Freeoka. **pedigree:** C. columna x large-fruited C. avellana cultivar. Perennial. Cultivar. Plant.
- PI 557363 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 4-72. **pedigree:** OP selection of Turkish Trazel G-15 (columna x avellana). Perennial. Breeding Material. Plant.
- PI 557364 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 1-70. **pedigree:** Open-pollinated selection of Turkish Trazel J-4. Perennial. Breeding Material. Plant.
- PI 557365 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 3-73. **pedigree:** OP seedling selection of Filcorn (columna x avellana). Perennial. Breeding Material. Plant.
- PI 557366 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 2-67. **pedigree:** Selection of C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557367 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon +7331. **cultivar:** USOR 1-67. **pedigree:** Selection of C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557368 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 20-71. **pedigree:** OP selection of Turkish Trazel J-2 (columna x avellana). Perennial. Breeding Material. Plant.
- PI 557369 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 15-71. **pedigree:** Selection of C. columna x C. avellana. **remarks:** This accession is being considered for introduction as a named cultivar. Perennial. Breeding Material. Plant.

PI 557357 to 557378-continued

- PI 557370 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 5-71. **pedigree:** Selection of C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557371 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 6-71. **pedigree:** Selection of C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557372 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 7-71. **pedigree:** Selection of C. columna x C. avellana. **remarks:** This accession is being considered for introduction as a named cultivar. Perennial. Breeding Material. Plant.
- PI 557373 **origin:** Canada. **origin institute:** Gellatly Nursery, Westbank, British Columbia. **cultivar:** Turktrazel Gellatly-5. **pedigree:** C. columna x C. avellana selection. **collected:** April 03, 1970. Perennial. Breeding Material. Plant.
- PI 557374 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 13-71. **pedigree:** Selection of C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557375 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 2-72. **pedigree:** Open-pollinated selection of Faroka (columna x avellana). Perennial. Breeding Material. Plant.
- PI 557376 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 1-68. **pedigree:** OP Selection of Filcorn: C. columna X C. avellana. Perennial. Breeding Material. Plant.
- PI 557377 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 1-71. **pedigree:** Selection of C. columna x C. avellana. Perennial. Breeding Material. Plant.
- PI 557378 **origin:** United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon 97331. **cultivar:** USOR 3-72. **pedigree:** Open-pollinated selection of Chinese Trazel G-11. Perennial. Breeding Material. Plant.

PI 557379 to 557386. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Reich, Dr. J., Cornell University, NY Agric. Exper. Sta., Geneva, New York, United States. Received February 19, 1986.

- PI 557379 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY F-20. **pedigree:** Open pollinated selection of NY 157 (Rush x Barcelona). Perennial. Breeding Material. Plant.
- PI 557380 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY F-43. **pedigree:** Open pollinated selection of NY 157 (Rush x Barcelona). Perennial. Breeding Material. Plant.
- PI 557381 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 588. **pedigree:** Rush x Red Lambert (americana x avellana). Perennial. Breeding Material. Plant.
- PI 557382 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 398. **pedigree:** Rush x Red Lambert (americana x avellana). Perennial. Breeding Material. Plant.
- PI 557383 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 1464. **pedigree:** Rush x Cosford (americana x avellana). Perennial. Breeding Material. Plant.
- PI 557384 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 529. **pedigree:** Rush x Daviana (americana x avellana). Perennial. Breeding Material. Plant.
- PI 557385 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 1329. **pedigree:** Rush x Cosford (americana x avellana). Perennial. Breeding Material. Plant.
- PI 557386 **origin:** United States. **origin institute:** Cornell University, Agricultural Experiment Station, Geneva, New York 14456. **cultivar:** NY 1408. **pedigree:** Rush x Cosford (americana x avellana). Perennial. Breeding Material. Plant.

PI 557387. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Gellatly, L.U., Gellatly Nurseries, Westbank, British Columbia, Canada. Received .

origin: United States. **historical origin:** Canada.
origin institute: Gellatly Nurseries, Westbank, British Columbia. **cultivar:** Chinoka. **pedigree:** *C. colurna* x *C. avellana*. **remarks:** Potential non-suckering rootstock selection. Perennial. Cultivar. Plant.

PI 557388 to 557390. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received March 11, 1986.

PI 557388 **origin:** Canada. **origin institute:** Gellatly Nursery, Westbank, British Columbia. **cultivar:** Turktrazel Gellatly-2. **pedigree:** *C. colurna* x *C. avellana* selection. **remarks:** Potential non-suckering rootstock selection. Perennial. Breeding Material. Plant.

PI 557389 **origin:** United States. **historical origin:** Canada. **origin institute:** Gellatly Nurseries, Westbank, British Columbia. **cultivar:** Erioka. **pedigree:** *C. colurna* x *C. avellana*. **remarks:** Potential non-suckering rootstock selection. Perennial. Cultivar. Plant.

PI 557390 **origin:** United States. **origin institute:** Department of Horticulture, Oregon State University, Corvallis, Oregon 97331. **cultivar:** Ruby. **pedigree:** Chinese Trazel G-4 x *C. avellana fusco-rubra*. **other id:** USDA 19-82. **remarks:** Non-suckering, upright habit, red foliage. Perennial. Cultivar. Plant.

PI 557391 to 557392. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Germain, Dr. Eric, INRA, Station Recherches d'Arboriculture, Pont-de-la-Maye, France. Received March 06, 1989.

PI 557391 **origin:** France. **historical origin:** United States. **origin institute:** USDA/ARS, BARC-West, Beltsville, Maryland. **cultivar:** Potomac. **pedigree:** Rush x Du Chilly. **other id:** USDA 2336. **remarks:** Vigorous, hardy, and productive, suitable for areas where European cultivars cannot be grown due to lack of hardiness. Perennial. Cultivar. Cutting.

PI 557391 to 557392-continued

PI 557392 **origin:** France. **historical origin:** United States.
origin institute: USDA/ARS, BARC-West, Beltsville,
Maryland. **cultivar:** Reed. **pedigree:** Rush x Bollwyler.
other id: USDA 1667. **remarks:** Nut averages 180-190/lb,
48% kernel, resembles Red Aveline Suited for areas where
European cultivars cannot be grown. Perennial.
Cultivar. Cutting.

PI 557393 to 557397. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 15,
1989.

PI 557393 **origin:** United States. **historical origin:** Canada.
origin institute: Gellatly Nurseries, Westbank, British
Columbia. **cultivar:** Faroka. **pedigree:** C. columna x C.
avellana. Perennial. Cultivar. Cutting.

PI 557394 **origin:** United States. **historical origin:** Canada.
origin institute: Gellatly Nurseries, Westbank, British
Columbia. **cultivar:** Karloka. **pedigree:** C. columna x C.
avellana. Perennial. Cultivar. Cutting.

PI 557395 **origin:** Canada. **origin institute:** Gellatly Nursery,
Westbank, British Columbia. **cultivar:** Turktrazel
Gellatly No. 3. **pedigree:** Seedling selection. **remarks:**
Non-suckering rootstock selection. Perennial. Breeding
Material. Cutting.

PI 557396 **origin:** Canada. **origin institute:** Gellatly Nurseries,
Westbank, British Columbia. **cultivar:** Gellatly No. 15.
pedigree: Seedling selection. **remarks:** Non-suckering
rootstock selection. Perennial. Breeding Material.
Cutting.

PI 557397 **origin:** United States. **historical origin:** Canada.
origin institute: Gellatly Nurseries, Westbank, British
Columbia. **cultivar:** Zeroka. **pedigree:** C. columna x C.
avellana. Perennial. Cultivar. Cutting.

PI 557398. *Corylus* hybrid BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department
of Horticulture, Corvallis, Oregon, United States. Received
February 09, 1990.

PI 557398-continued

origin: United States. **origin institute:** USDA/ARS, Oregon State University, Corvallis, Oregon. **cultivar:** BR-3-2. **pedigree:** C. columna x C. avellana seedling selection. Perennial. Breeding Material. Plant.

PI 557399. *Corylus maxima* Miller BETULACEAE Filbert (Hazel)

Donated by: Piskornik, Z., Agricultural University, Horticulture Department, Krakow, Poland. Received December 28, 1984.

origin: Poland. **origin institute:** Ag. University Hort. Dept., 29 Listopada 54, Krakow. **other id:** Warsaw Red. Perennial. Breeding Material. Plant.

PI 557400. *Corylus maxima* Miller BETULACEAE Filbert (Hazel)

Donated by: Ristevski, Dr. B., Inst. za Ovostarstvo, Prvomajska Br. 5, Skopje, Yugoslavia. Received February 08, 1988.

origin: Yugoslavia. **origin institute:** Institut Za Ovostrostvo, Prvomajska Gr. 5, Skopje 91000. **cultivar:** Istarski duguljasti. Perennial. Cultivar. Cutting.

PI 557401. *Corylus maxima* Miller BETULACEAE Filbert (Hazel)

Donated by: Craddock, Dr. Hill, Inst. Frutticoltura Ind., Torino, Italy. Received March 09, 1989.

origin: Italy. **origin institute:** Inst. Frutticoltura Ind., Torino. Perennial. Breeding Material. Cutting.

PI 557402 to 557403. *Corylus sieboldiana* Blume BETULACEAE Filbert (Hazel)

Donated by: Westwood, M.N., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 28, 1983.

PI 557402 **origin:** Japan. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from wild Japanese seedlot. Perennial. Breeding Material. Plant.

PI 557403 **origin:** Korea, Republic of. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from Korean seedlot CCOR 532. Perennial. Breeding Material. Plant.

PI 557404 to 557405. *Corylus sieboldiana* Blume BETULACEAE Filbert
(Hazel)

Donated by: Lee, Dr. P., Horticultural Experiment Sta., Suweon,
Korea, Republic of. Received February 15, 1989.

PI 557404 **origin:** Korea, Republic of. **origin institute:**
Horticultural Experiment Station, Suweon. Perennial.
Breeding Material. Cutting.

PI 557405 **origin:** Korea, Republic of. **origin institute:**
Horticultural Experiment Station, Suweon. Perennial.
Breeding Material. Cutting.

PI 557406. *Corylus sieboldiana* Blume BETULACEAE Filbert (Hazel)

Donated by: Smith, D., Oregon State University, Department of
Horticulture, Corvallis, Oregon, United States. Received March 14,
1990.

origin: UNCERTAIN. **historical origin:** United States.
origin institute: Oregon State University, Dept. of
Horticulture, Corvallis, Oregon. Perennial. Breeding
Material. Cutting.

PI 557407 to 557408. *Corylus sieboldiana* Blume BETULACEAE Filbert
(Hazel)

Donated by: Germain, Dr. Eric, INRA, Station Recherches
d'Arboriculture, Pont-de-la-Maye, France. Received February 01,
1991.

PI 557407 **origin:** France. **origin institute:** INRA, Centre des
Recherches de Bordeaux, Station des Recherches
d'Arboriculture, Pont-de-la-Maye. **cultivar:** N491-1.
Perennial. Breeding Material. Plant.

PI 557408 **origin:** France. **origin institute:** INRA, Centre des
Recherches de Bordeaux, Station des Recherches
d'Arboriculture, Pont-de-la-Maye. **cultivar:** N491-2.
Perennial. Breeding Material. Plant.

PI 557409. *Corylus sieboldiana* var. *brevirostris* C. Schneider
BETULACEAE Filbert (Hazel)

Donated by: Lee, Dr. P., Horticultural Experiment Sta., Suweon,
Korea, Republic of. Received February 15, 1989.

origin: Korea, Republic of. **origin institute:**
Horticultural Experiment Station, Suweon. Perennial.
Breeding Material. Cutting.

PI 557410 to 557411. *Corylus sieboldiana* var. *brevirostris* C. Schneider
BETULACEAE Filbert (Hazel)

Donated by: Lee, Dr. P., Horticultural Experiment Sta., Suweon,
Korea, Republic of. Received May 01, 1989.

PI 557410 **origin:** Korea, Republic of. **origin institute:**
Horticultural Experiment Station, Suweon. Perennial.
Breeding Material. Cutting.

PI 557411 **origin:** Korea, Republic of. **origin institute:**
Horticultural Experiment Station, Suweon. Perennial.
Breeding Material. Cutting.

PI 557412. *Corylus sieboldiana* var. *mandshurica* (Maxim.) C. Schneider
BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received January 12,
1981.

origin: UNKNOWN. **local name:** Manchurian Filbert,
Japanese Filbert. **locality:** Asia. Perennial.
Cultivated. Plant.

PI 557413. *Corylus sieboldiana* var. *mandshurica* (Maxim.) C. Schneider
BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447
Peoria Road, Corvallis, Oregon, United States. Received March 03,
1983.

origin: Spain. **origin institute:** Fundacion Servicio
Agro. Provinci, Reus. **local name:** Manchurian Filbert.
collected: July 01, 1975. Perennial. Breeding Material.
Plant.

PI 557414. *Corylus sieboldiana* var. *mandshurica* (Maxim.) C. Schneider
BETULACEAE Filbert (Hazel)

Donated by: Wei, Liang, Jian Economic Forest Research Inst.,
Liaoning, China. Received March 25, 1988.

origin: China. **pedigree:** Collected from the wild in
China. **collected:** 1988. **latitude:** 30 deg. N.
longitude: 110 deg. E. Perennial. Wild. Cutting.

PI 557415. *Corylus sieboldiana* var. *mandshurica* (Maxim.) C. Schneider
BETULACEAE Filbert (Hazel)

Donated by: Lee, Dr. P., Horticultural Experiment Sta., Suweon,
Korea, Republic of. Received February 15, 1989.

origin: Korea, Republic of. **origin institute:**
Horticultural Experiment Station, Suweon. Perennial.
Breeding Material. Cutting.

PI 557416 to 557418. *Corylus* sp. BETULACEAE Filbert (Hazel)

Donated by: Craddock, Dr. Hill, Inst. Frutticoltura Ind., Torino,
Italy. Received March 09, 1989.

PI 557416 **origin:** Italy. **origin institute:** Inst. Frutticoltura
Ind., Torino. **cultivar:** BB-9. **remarks:** Non-dormant
selection. Perennial. Breeding Material. Cutting.

PI 557417 **origin:** Italy. **origin institute:** Inst. Frutticoltura
Ind., Torino. **cultivar:** Ordhu 293. Perennial. Breeding
Material. Cutting.

PI 557418 **origin:** Italy. **cultivar:** Alcover 236. Perennial.
Breeding Material. Cutting.

PI 557419 to 557420. *Corylus* sp. BETULACEAE Filbert (Hazel)

Donated by: Grem, Richard, Terryville, Connecticut, United States.
Received January 19, 1990.

PI 557419 **origin:** United States. **pedigree:** Collected from the wild
in Connecticut. **collected:** January 01, 1990. **locality:**
Railroad tracks near Tolles Station, Plymouth. **latitude:**
41 deg. 40 min. N. **longitude:** 73 deg. 02 min. W.
Perennial. Wild. Seed.

PI 557420 **origin:** United States. **pedigree:** Collected from the wild
in Connecticut. **collected:** January 01, 1990. **locality:**
Near dam of Cedar Lake, Wolcott. **latitude:** 41 deg. 35
min. N. **longitude:** 72 deg. 59 min. W. Perennial. Wild.
Seed.

PI 557421. *Corylus* sp. BETULACEAE Filbert (Hazel)

Donated by: Burmistrov, L.A., N.I. Vavilov Institute, Leningrad,
USSR. Received February 02, 1990.

origin: USSR. Perennial. Seed.

PI 557422 to 557424. *Corylus* sp. BETULACEAE Filbert (Hazel)

Donated by: Germain, Dr. Eric, INRA, Station Recherches d'Arboriculture, Pont-de-la-Maye, France. Received February 01, 1991.

PI 557422 **origin:** France. **historical origin:** UNCERTAIN. **cultivar:** Ata Baba. Perennial. Cultivar. Plant.

PI 557423 **origin:** France. **historical origin:** UNCERTAIN. **cultivar:** Anglais. Perennial. Cultivar. Plant.

PI 557424 **origin:** France. **historical origin:** UNCERTAIN. **cultivar:** Corabel. Perennial. Cultivar. Plant.

PI 557425 to 557428. *Corylus* sp. BETULACEAE Filbert (Hazel)

Donated by: Mehlenbacher, Shawn, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. Received May 01, 1991.

PI 557425 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** OSU 54-1/D. Perennial. Breeding Material. Plant.

PI 557426 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** OSU 193.055. Perennial. Breeding Material. Plant.

PI 557427 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** Henneman #3. Perennial. Breeding Material. Plant.

PI 557428 **origin:** United States. **origin institute:** Oregon State University, Dept. of Horticulture, East Farm, Corvallis, Oregon 97333. **cultivar:** OSU 054-042. Perennial. Breeding Material. Plant.

PI 557429. *Corylus* x *colurnoides* C. Schneider BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received January 12, 1981.

origin: UNKNOWN. **pedigree:** *C. avellana* x *C. colurna* natural hybrid. **local name:** Colurnoid Filbert. **locality:** Asia. Perennial. Cultivated. Plant.

PI 557430. *Corylus x vilmorinii* Rehder BETULACEAE Filbert (Hazel)

Donated by: Lagerstedt, Dr. Harry, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received January 12, 1981.

origin: UNCERTAIN. **pedigree:** *C. avellana* x *C. chinensis* natural hybrid. **local name:** Vilmorin Filbert.
Perennial. Cultivated. Plant.

PI 557431 to 557432. *Agropyron cristatum* (L.) Gaertn. POACEAE Fairway crested wheatgrass

Donated by: Knowles, R.P., 107 Science Crescent, Saskatoon, Saskatchewan, Canada. Received January 21, 1991.

PI 557431 **origin:** Canada. **cultivar:** S-9063. **other id:** W6 6549.
group: W6. **remarks:** Marker for spike color, bright-green shortly after heading which intensifies to maximum at flowering stage, and which disappears after flowering is completed. Bright-green spike color is dominant when crossed with gray-green strains such as S-9064.
Perennial. Genetic Material. Seed.

PI 557432 **origin:** Canada. **cultivar:** S-9064. **other id:** W6 6550.
group: W6. **remarks:** Marker for spike color, grey-green shortly after heading, and intensifies to a maximum at the flowering stage; coloring disappears after flowering is completed. Gray-green spike color is recessive to the bright-green spike color such as found in S-9063.
Perennial. Genetic Material. Seed.

PI 557433. *Astragalus* sp. FABACEAE

Donated by: Kaiser, W.J., Western Regional PI Station, Washington State University, Rm. 59, Johnson Hall, Pullman, Washington, United States. Received June 26, 1991.

donor id: 020689-0104. **origin:** Turkey. **collected:** June 02, 1989. **collector id:** 020689-0104. **other id:** W6 134.
group: W6. **locality:** Rocky fields on basalt plateau. Rocky fence rows on edges of fields. Some recently tilled. 6km SW of Karacadag on road Diyarbakir to Siverek, Siverek Province. **latitude:** 37 deg. 43 min. N. **longitude:** 038 deg. 35 min. E. **elevation:** 1110m. Wild. Seed.

PI 557434 to 557436. *Astragalus* sp. FABACEAE

Donated by: Kaiser, W.J., USDA-ARS, Western Regional Plant Introduction Sta., Washington State University, Pullman, Washington, United States. Received June 01, 1989.

- PI 557434 **donor id:** WJK 11. **origin:** Syria. **collected:** May 1989. **collector id:** WJK 11. **other id:** W6 2742. **group:** W6. **locality:** Among rocks on hill, 30km northeast of Aleppo, near village of Fefeen. **latitude:** 36 deg. 02 min. N. **longitude:** 37 deg. 5E min.. **elevation:** 400m. **remarks:** Pods large, sickle-shaped. Wild. Seed.
- PI 557435 **donor id:** WJK 12. **origin:** Syria. **collected:** May 1989. **collector id:** WJK 12. **other id:** W6 2743. **group:** W6. **locality:** Among rocks on hill, 30km northeast of Aleppo, near village of Fefeen. **latitude:** 36 deg. 02 min. N. **longitude:** 37 deg. 05 min. E. **elevation:** 400m. **remarks:** Pods small, sickle-shaped, borne in a cluster on a pedicel. Wild. Seed.
- PI 557436 **donor id:** WJK 23. **origin:** Syria. **collected:** May 1989. **collector id:** WJK 23. **other id:** W6 2744. **group:** W6. **locality:** Wheat field near a large cement factory, 10km northeast of Aleppo. **latitude:** 36 deg. 17 min. N. **longitude:** 37 deg. 02 min. E. **elevation:** 400m. **remarks:** Pods large, sickle-shaped. Wild. Seed.

PI 557437 to 557441. *Bromus inermis* Leyss. POACEAE Smooth brome grass

Donated by: Knowles, R.P., 107 Science Crescent, Saskatoon, Saskatchewan, Canada. Received January 21, 1991.

- PI 557437 **origin:** Canada. **cultivar:** S-7133. **other id:** W6 6551. **group:** W6. **remarks:** Seedling pubescence used as a genetic marker. Pubescent leaf sheath type is dominant over glabrous leaf sheath type. Perennial. Genetic Material. Seed.
- PI 557438 **origin:** Canada. **cultivar:** S-8753. **other id:** W6 6553. **group:** W6. **remarks:** Seedling pubescence used as a genetic marker. Pubescent leaf sheath type is dominant over glabrous leaf sheath type. Perennial. Genetic Material. Seed.
- PI 557439 **origin:** Canada. **cultivar:** S-9179. **other id:** W6 6555. **group:** W6. **remarks:** Seedling pubescence used as a genetic marker. Glabrous leaf sheath type is recessive to pubescent leaf sheath type. Perennial. Genetic Material. Seed.

: 557437 to 557441-continued

PI 557440 **origin:** Canada. **cultivar:** S-9180A. **other id:** W6 6556.
group: W6. **remarks:** Seedling pubescence used as a genetic marker. Pubescent leaf sheath type is dominant over glabrous leaf sheath type. Perennial. Genetic Material. Seed.

PI 557441 **origin:** Canada. **cultivar:** S-9273. **other id:** W6 6557.
group: W6. **remarks:** Seedling pubescence used as a genetic marker. Glabrous leaf sheath type is recessive when crossed with pubescent leaf sheath type. The resulting yellow-leaved strain segregates to about two thirds yellow and one third green. Perennial. Genetic Material. Seed.

PI 557442 to 557452. *Cicer arietinum* L. FABACEAE Chickpea

Donated by: Joshi, N.C., ICRISAT, Patancheru, Andhra Pradesh, India.
Received March 08, 1990.

PI 557442 **donor id:** CO-1. **origin:** India. **other id:** W6 3516.
group: W6. Annual. Cultivar. Seed.

PI 557443 **donor id:** HI112 88R E# 5. **origin:** India. **pedigree:** ICCX-830677-10HBH-BH. **other id:** W6 3520. **group:** W6.
Annual. Cultivar. Seed.

PI 557444 **donor id:** HI116 88R E# 18. **origin:** India. **pedigree:** ICCX-810737-BPN-BPN-BPN-3PN-BH. **other id:** W6 3521.
group: W6. Annual. Cultivar. Seed.

PI 557445 **donor id:** HI116 88R E# 2. **origin:** India. **pedigree:** ICCX-820831-13H-1H-BH. **other id:** W6 3522. **group:** W6.
Annual. Cultivar. Seed.

PI 557446 **donor id:** HI226 88R E# 3. **origin:** India. **pedigree:** ICCX-820835-2H-BH-BH. **other id:** W6 3523. **group:** W6.
Annual. Cultivar. Seed.

PI 557447 **donor id:** ICCL 86446. **origin:** India. **other id:** W6 3525.
group: W6. **other id:** ICCTD 88R E# 11. **group:** ICRISAT.
Annual. Cultivar. Seed.

PI 557448 **donor id:** ICCL 86447. **origin:** India. **other id:** W6 3526.
group: W6. **other id:** ICCTDL88R E# 12. **group:** ICRISAT.
Annual. Cultivar. Seed.

PI 557449 **donor id:** ICCV 1. **origin:** India. **other id:** W6 3527.
group: W6. Annual. Cultivar. Seed.

PI 557450 **donor id:** ICCV 2. **origin:** India. **other id:** W6 3528.
group: W6. Annual. Cultivar. Seed.

PI 557442 to 557452-continued

PI 557451 **donor id:** ICCV 6. **origin:** India. **other id:** W6 3532.
group: W6. Annual. Cultivar. Seed.

PI 557452 **donor id:** ICCV 7. **origin:** India. **other id:** W6 3533.
group: W6. Annual. Cultivar. Seed.

PI 557453. *Cicer canariense* A. Santos Guerra & G. P. Lewis FABACEAE

Donated by: Santos-Guerra, A., Centro de Investigacion y, Tecnologia Agrarias, Apartado 60 La Laguna, Tenerife, Canary Islands, Spain.
Received June 20, 1991.

origin: Spain. **collected:** August 1989. **other id:** W6 4573. **group:** W6. **locality:** Forest of *Pinus canariensis*, Palma, Canary Islands. **elevation:** 1100m. Wild. Seed.

PI 557454. *Elymus rectisetus* (Nees) A. Love & Connor POACEAE *Elymus*

Donated by: Carman, J.G., Dept. of Plant, Soils and Biometeorology, Utah State University, Logan, Utah, United States. Received January 16, 1990.

donor id: 86172. **origin:** Australia. **collected:** February 07, 1986. **other id:** W6 2836. **group:** W6. **locality:** Paddock behind vacant lot opposite 7 Aberdeen Court, Launceston, Tasmania. Site is near Treasure Island Caravan Park, a trailer court. **remarks:** Plant sheath and leaf blade pilose and velutinous. Awns intermediate. Fertility moderate, 2-4 seeds per spiklet on late spikes and very low (1 seed or more) on early spikes. Soil brown. Basalt present. Wild. Seed.

PI 557455. *Elymus sibiricus* L. POACEAE *Wildrye*

Donated by: Elias, T.S., Rancho Santa Ana Botanic Garden, Claremont, California, United States. **remarks:** Received through the US-USSR Botanical Exchange Program under the Bilateral Agreement on Environmental Protection. Received November 12, 1988.

donor id: 11868. **origin:** USSR. **collected:** August 08, 1988. **collector id:** 11868. **other id:** W6 84. **group:** W6. **other id:** BE-2066. **locality:** Along logging road, just N of village Onokhoy, 25km ENE of Ulan-Ude, Eastern Siberia. **elevation:** 1000-1100m. **remarks:** Plants associated with *Pinus sylvestris* forest with *Alnus fruticosa* and *Rhododendron dahuricum*. Seeds fully mature. Wild. Seed.

PI 557456 to 557457. *Eragrostis tef* (Zucc.) Trotter POACEAE Teff

Donated by: Kebede, H., Department of Agronomy, Oklahoma State University, Stillwater, Oklahoma, United States. Received January 05, 1991.

PI 557456 **origin:** Ethiopia. **cultivar:** DZ-01-354. **other id:** W6 2799. **group:** W6. **remarks:** Used as a late maturing cultivar in a study of photosynthetic response of *Eragrostis tef* to temperature by H. Kebede, R.C. Johnson, and D.M. Ferris. Published in *Physiologia Plantarum* 77: 262-266, Copenhagen, 1989. Annual. Cultivar. Seed.

PI 557457 **origin:** Ethiopia. **cultivar:** RED DABI. **other id:** W6 2800. **group:** W6. **remarks:** Used as an early maturing cultivar in a study of photosynthetic response of *Eragrostis tef* to temperature by H. Kebede, R.C. Johnson, and D.M. Ferris. Published in *Physiologia Plantarum* 77: 262-266, Copenhagen, 1989. Annual. Cultivar. Seed.

PI 557458. *Hippocrepis* sp. FABACEAE

Donated by: Kaiser, W.J., USDA-ARS, Western Regional Plant Introduction Sta., Washington State University, Pullman, Washington, United States. Received June 01, 1989.

donor id: WJK 13. **origin:** Syria. **collected:** May 18, 1989. **collector id:** WJK 13. **other id:** W6 2746. **group:** W6. **locality:** Among rocks in new pistachio grove about 30km northeast of Aleppo, near village of Fefeen. **elevation:** 400m. Wild. Seed.

PI 557459. *Onobrychis* sp. FABACEAE

Donated by: Kaiser, W.J., USDA-ARS, Western Regional Plant Introduction Sta., Washington State University, Pullman, Washington, United States. Received August 18, 1989.

donor id: 210589-03. **origin:** Turkey. **collected:** May 21, 1989. **other id:** W6 712. **group:** W6. **locality:** Large rock outcropping 300 to 400m from seashore, near Seferihisar and the ancient Greek ruins of Teos, Izmir Province. **elevation:** 20-30m. **remarks:** Plants with bur type pods and prostrate habit. Annual. Wild. Seed.

PI 557460. *Onobrychis* sp. FABACEAE

Donated by: Kaiser, W.J., USDA-ARS, Western Regional Plant Introduction Sta., Washington State University, Pullman, Washington, United States. Received June 01, 1989.

PI 557460-continued

donor id: WJK 19. **origin:** Syria. **collected:** May 1989.
collector id: WJK 19. **other id:** W6 2757. **group:** W6.
locality: Among rocks on a hill about 30km northeast of Aleppo, near the village of Fefeen. **latitude:** 36 deg. 02 min. N. **longitude:** 37 deg. 05 min. E. **elevation:** 400m.
remarks: Pods medium-sized and spiny. Wild. Seed.

PI 557461. *Phalaris arundinacea* L. POACEAE Reed canarygrass

Donated by: Knowles, R.P., 107 Science Crescent, Saskatoon, Saskatchewan, Canada. Received January 21, 1991.

origin: Canada. **cultivar:** S-8986. **other id:** W6 6559.
group: W6. **remarks:** Developed from S-8799. Selected from 3 yellow seeded plants in 3 generations; 4 generations of subsequent selections were required to get a stable pure-breeding, yellow seeded stock. Preliminary results indicate the yellow seed color is controlled by duplicate recessive genes. The strain has been used as a marker in pollination studies and production of F1 hybrids. Forage and seed yields are approximately 85 and. Perennial. Genetic Material. Seed.

PI 557462 to 557463. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Kaiser, W.J., USDA-ARS, Western Regional Plant Introduction Sta., Washington State University, Pullman, Washington, United States. Received August 18, 1989.

PI 557462 **donor id:** 230589-07. **origin:** Turkey. **collected:** May 23, 1989. **other id:** W6 716. **group:** W6. **locality:** Purchased in market at Izmir, Izmir Province. Annual. Cultivated. Seed.

PI 557463 **donor id:** 260589-08. **origin:** Turkey. **collected:** May 23, 1989. **other id:** W6 717. **group:** W6. **locality:** Purchased in market at Izmir, Izmir Province. **remarks:** Seed large and white. Annual. Cultivated. Seed.

PI 557464 to 557481. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: France, A., Instituto de Investigaciones, Agropecuarias Estacion Exp., Quilamapu, Chile. Received March 21, 1988.

PI 557464 **origin:** Chile. **cultivar:** TORTOLA. **other id:** W6 2989. **group:** W6. **remarks:** Resistant to BCMV, strains T, NY15, and NL2. Cultivar. Seed.

PI 557464 to 557481-continued

- PI 557465 **origin:** Chile. **cultivar:** COSCORRON. **other id:** W6 2990. **group:** W6. **remarks:** Susceptible to NL3. Principal use is for semi dry consume. Cultivar. Seed.
- PI 557466 **origin:** Chile. **cultivar:** SUAVES 85. **other id:** W6 2991. **group:** W6. **remarks:** Similar to Tortola INIA. Cultivar. Seed.
- PI 557467 **origin:** Chile. **cultivar:** ARAUCANO 85. **other id:** W6 2992. **group:** W6. **remarks:** Cranberry type. Resistant as Tortola INIA. Cultivar. Seed.
- PI 557468 **origin:** Chile. **cultivar:** CUYANO. **other id:** W6 2993. **group:** W6. **remarks:** Resistant to all races of BCMV. Cultivar. Seed.
- PI 557469 **origin:** Chile. **cultivar:** ORFEO. **other id:** W6 2994. **group:** W6. **remarks:** Black type. Resistant as Tortola INIA. Cultivar. Seed.
- PI 557470 **origin:** Chile. **cultivar:** BLANCO. **other id:** W6 2995. **group:** W6. **remarks:** Great Northern type. Resistant as Tortola INIA. Cultivar. Seed.
- PI 557471 **origin:** Chile. **cultivar:** BLANCO 85. **other id:** W6 2996. **group:** W6. **remarks:** Big white type. Susceptible to NL3. Cultivar. Seed.
- PI 557472 **origin:** Chile. **cultivar:** BLANCO ESPANOL. **other id:** W6 2997. **group:** W6. **remarks:** White type. Susceptible to NL3. Cultivar. Seed.
- PI 557473 **origin:** Chile. **cultivar:** NEGRO ARGEL. **other id:** W6 2998. **group:** W6. **remarks:** Black type. Susceptible to NL3. Drought tolerance. Cultivar. Seed.
- PI 557474 **origin:** Chile. **cultivar:** FIDEO O CLAVO. **other id:** W6 2999. **group:** W6. **remarks:** Black large type. For green pod use. Susceptible to BCMV. Cultivar. Seed.
- PI 557475 **origin:** Chile. **cultivar:** TREILE. **local name:** Native Bird. **other id:** W6 3000. **group:** W6. **remarks:** White color with hilum surrounded by brown halo. Susceptible to BCMV. Cultivar. Seed.
- PI 557476 **origin:** Chile. **cultivar:** METRO. **other id:** W6 3001. **group:** W6. **remarks:** Seed type brown, large. For green pod use. Susceptible to BCMV. Cultivar. Seed.
- PI 557477 **origin:** Chile. **cultivar:** ORO OR BIO BIO. **other id:** W6 3002. **group:** W6. **remarks:** Cranberry type. Susceptible to BCMV. Cultivar. Seed.

PI 557464 to 557481-continued

- PI 557478 **origin:** Chile. **cultivar:** SAPITOS. **other id:** W6 3003.
group: W6. **remarks:** Local type. Susceptible to BCMV.
Cultivar. Seed.
- PI 557479 **origin:** Chile. **cultivar:** PAYAR. **other id:** W6 3004.
group: W6. **remarks:** Very big white type. Susceptible to
BCMV. Cultivar. Seed.
- PI 557480 **origin:** Chile. **cultivar:** SENORITA. **other id:** W6 3005.
group: W6. **remarks:** Local type. Susceptible to BCMV.
Cultivar. Seed.
- PI 557481 **origin:** Chile. **cultivar:** MANTEQUILLA. **other id:** W6
3006. **group:** W6. **remarks:** Large black type. Susceptible
to BCMV. Cultivar. Seed.

PI 557482 to 557483. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Eder, D., USDA-ARS, Western Regional Plant Introduction
Sta., Washington State University, Pullman, Washington, United
States. Received March 14, 1990.

- PI 557482 **donor id:** DE-2. **origin:** Ecuador. **collected:** January 31,
1990. **other id:** W6 3669. **group:** W6. **locality:** Market
in Quito. **latitude:** 00 deg. 14 min. S. **longitude:** 78
deg. 30 min. W. **elevation:** 2736m. **remarks:** Seed
speckled. Some mixture of seed types. Cultivated. Seed.
- PI 557483 **donor id:** DE-3. **origin:** Ecuador. **collected:** January 31,
1990. **other id:** W6 3670. **group:** W6. **locality:** Market
in Quito. **latitude:** 00 deg. 14 min. S. **longitude:** 78
deg. 30 min. W. **elevation:** 2736m. **remarks:** Seed
speckled on a pinkish background. Some mixture of seed
types. Cultivated. Seed.

PI 557484 to 557486. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: IBPGR, AGPG FAO, Via della terme di Caracalla, Rome,
Italy. Received March 14, 1990.

- PI 557484 **origin:** Nepal. **other id:** 1-86b. **other id:** W6 3678.
group: W6. Wild. Seed.
- PI 557485 **origin:** Nepal. **other id:** 2003b. **other id:** W6 3679.
group: W6. Wild. Seed.
- PI 557486 **origin:** Nepal. **other id:** 8006b. **other id:** W6 3680.
group: W6. Wild. Seed.

PI 557487. *Phaseolus vulgaris* L. FABACEAE Black bean

Donated by: Wallace, D.H., Dept. of Plant Breeding and Biometry, Cornell University, Ithaca, New York, United States. Received April 05, 1990.

origin: United States. **origin institute:** Cornell University, Dept. of Plant Breeding, Ithaca, New York 14853. **cultivar:** B-21. **other id:** W6 3810. **group:** W6. **remarks:** Black seeded dry bean breeding line with resistance to common bean mosaic virus, blackeye cowpea mosaic virus, cowpea aphid-borne mosaic virus, watermelon mosaic virus, tobacco mosaic virus, and bean yellow mosaic virus. See HortSci. 24:1049. 1989. Annual. Cultivar. Seed.

PI 557488. *Phaseolus vulgaris* L. FABACEAE Green bean

Donated by: Willmot, D.B., Rogers Brothers Seed Company, Research Center, 6338 Highway 20-26, Nampa, Idaho, United States. Received August 16, 1990.

donor id: PV1349. **origin:** USSR. **other id:** W6 4870. **group:** W6. **remarks:** Yellow bean with semi-vining growth. Days to flowering 46. Anthocyanin content very high. Produces many flowers. No disease observed in early trials. Annual. Seed.

PI 557489. *Trigonella foenum-graecum* L. FABACEAE Fenugreek

Donated by: Kaiser, W.J., USDA-ARS, Western Regional Plant Introduction Sta., Washington State University, Pullman, Washington, United States. Received August 18, 1989.

donor id: 230588-05. **origin:** Turkey. **collected:** May 23, 1989. **other id:** W6 714. **group:** W6. **locality:** Purchased in market at Izmir, Izmir Province. Annual. Cultivated. Seed.

PI 557490 to 557497. *Vicia faba* L. FABACEAE Broadbean

Donated by: Baggett, J.R., Department of Horticulture, Cordley Hall 2042, Oregon State University, Corvallis, Oregon, United States. Received April 10, 1990.

PI 557490 **origin:** United States. **other id:** 5-3. **other id:** W6 4064. **group:** W6. **remarks:** Selection from PI accessions for resistance to pea enation mosaic virus (PEMV), and bean yellow mosaic virus (BYMV). Not immune but shows much reduced disease severity. Annual. Breeding Material. Seed.

PI 557490 to 557497-continued

- PI 557491 **origin:** United States. **other id:** 10-2. **other id:** W6 4065. **group:** W6. **remarks:** Selection from PI accessions for resistance to pea enation mosaic virus (PEMV), and bean yellow mosaic virus (BYMV). Not immune but shows much reduced disease severity. Annual. Breeding Material. Seed.
- PI 557492 **origin:** United States. **other id:** 10-3. **other id:** W6 4066. **group:** W6. **remarks:** Selection from PI accessions for resistance to pea enation mosaic virus (PEMV), and bean yellow mosaic virus (BYMV). Not immune but shows much reduced disease severity. Annual. Breeding Material. Seed.
- PI 557493 **origin:** United States. **other id:** 11-2. **other id:** W6 4067. **group:** W6. **remarks:** Selection from PI accessions for resistance to pea enation mosaic virus (PEMV), and bean yellow mosaic virus (BYMV). Not immune but shows much reduced disease severity. Annual. Breeding Material. Seed.
- PI 557494 **origin:** United States. **other id:** 11-3. **other id:** W6 4068. **group:** W6. **remarks:** Selection from PI accessions for resistance to pea enation mosaic virus (PEMV), and bean yellow mosaic virus (BYMV). Not immune but shows much reduced disease severity. Annual. Breeding Material. Seed.
- PI 557495 **origin:** United States. **other id:** 11-4. **other id:** W6 4069. **group:** W6. **remarks:** Selection from PI accessions for resistance to pea enation mosaic virus (PEMV), and bean yellow mosaic virus (BYMV). Not immune but shows much reduced disease severity. Annual. Breeding Material. Seed.
- PI 557496 **origin:** United States. **other id:** 11-5. **other id:** W6 4070. **group:** W6. **remarks:** Selection from PI accessions for resistance to pea enation mosaic virus (PEMV), and bean yellow mosaic virus (BYMV). Not immune but shows much reduced disease severity. Annual. Breeding Material. Seed.
- PI 557497 **origin:** United States. **other id:** 11-6. **other id:** W6 4071. **group:** W6. **remarks:** Selection from PI accessions for resistance to pea enation mosaic virus (PEMV), and bean yellow mosaic virus (BYMV). Not immune but shows much reduced disease severity. Annual. Breeding Material. Seed.

PI 557498. *Vicia sativa* L. FABACEAE

Donated by: Kaiser, W.J., Western Regional PI Station, Washington State University, Rm. 59, Johnson Hall, Pullman, Washington, United States. Received June 26, 1991.

donor id: 170689-0105. **origin:** Turkey. **collected:** June 17, 1989. **collector id:** 170689-0105. **other id:** W6 187. **group:** W6. **locality:** Collected from seed storage of Ziya Kutlu's relatives. Cultivated in local areas. 5km NE of Dinar in Karakuyu village, Afyon Province. **latitude:** 38 deg. 05 min. N. **longitude:** 030 deg. 13 min. E. **elevation:** 1050m. Cultivated. Seed.

PI 557499. *Lens culinaris* Medikus FABACEAE Lentil

Donated by: Muehlbauer, F.J., Agricultural Research Service--USDA, Washington State University, Pullman, Washington, United States; and Washington Agr. Exp. Sta.. **remarks:** Palouse Lentil. Received November 08, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, 215 Johnson Hall, Washington State University, Pullman, Washington 99164-6421. **cultivar:** PALOUSE. **pedigree:** Laird / Precoz, F4. **other id:** WA256112. **other id:** CV-6. **group:** CSR-LENTIL. **remarks:** Seeds large (100 seeds weigh an average of 6.8g), yellow cotyledons and seedcoats that lack mottling. Maturity early. Averaged 1750kg ha⁻¹ in yield trials over 4 year period. Spring Annual. Cultivar. Seed.

PI 557500 to 557502. *Pisum sativum* L. FABACEAE Pea

Donated by: Kraft, J.M., Agricultural Research Service--USDA, RR 2, Box 2953A, Prosser, Washington, United States; and Washington Agr. Exp. Sta.. **remarks:** Three Pea Germplasms. Received November 08, 1991.

PI 557500 to 557502-continued

- PI 557500 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Washington State University, IAREC, RR 2, Box 2953A, Prosser, Washington 99350-9687. **cultivar:** 90-2079. **pedigree:** [(69-1004 / Recette) / 79-2022]. **other id:** GP-83. **group:** CSR-PEA. **remarks:** Avg. hgt. 0.6m, semi-leafless, blooms in 16th node, produces 2 pointed pods/node, & dimpled green seeds. Resistant to Fusarium & Aphanomyces root rot (F. solani & A. euteiches), & to races 1 & 2 of F. oxysporum. Outyielded susceptible, commercial cultivars, including Dark Skin Perfection, in field plots severely infested with A. euteiches in Minn., Wis., & New Zealand. Using 0-5 disease rating scale,. Spring Annual. Breeding Material. Seed.
- PI 557501 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Washington State University, IAREC, RR 2, Box 2953A, Prosser, Washington 99350-9687. **cultivar:** 90-2131. **pedigree:** {[Small Sieve Freezer/C-165) / (Early Perfection 3040 / C-165) / PH-91-3] / 74SN4 / PI 180693}. **other id:** GP-84. **group:** CSR-PEA. **remarks:** Avg. hgt. 0.6m, blooms in 15th node. Produces single blunt pods/bloom. Dimpled seed, hyaline testa, green cotyledons, & black hilums. Resistant to Fusarium & Aphanomyces root rot, races 1,5, & 6, & segregating for race 2 of F. oxysporum. Outyielded susceptible, commercial cvs. incl. Dark Skin Perfection, in field plots severely infested with A. euteiches in Minn., Wis., & New Zealand. Using 0-5 disease. Spring Annual. Breeding Material. Seed.
- PI 557502 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Washington State University, IAREC, RR 2, Box 2953-A, Prosser, Washington 99350-9687. **cultivar:** 90-2322. **pedigree:** [(Wisconsin 7103 / PI 189171) / Coquette]. **other id:** GP-85. **group:** CSR-PEA. **remarks:** Avg. hgt. 0.6m, blooms in 14th node. Produces 2 pointed pods/node. Dimpled seed, hyaline testa, & green cotyledons. Resistant to Fusarium & Aphanomyces root rot, Fusarium wilt, race 1, and powdery mildew. Outyielded susceptible, commercial cultivars, including Dark Skin Perfection, in field plots severely infested with A. euteiches in Minn., Wis., & New Zealand. Using 0-5 disease rating scale, (0=. Spring Annual. Breeding Material. Seed.

PI 557503 to 557533. *Melilotus albus* Medikus FABACEAE Sweetclover

Donated by: Gorz, H.J., USDA-ARS, Dept. of Agronomy,, University of Nebraska, Lincoln, Nebraska, United States. Received November 07, 1991.

- PI 557503 **donor id:** N46. **origin:** United States. **pedigree:** Self-pollination of four different homozygous plants derived from a single, doubly-heterozygous F2 plant following 6 successive crosses of cucubb segregates to CuCuBB plants selected from PI 165554. **remarks:** N46 (cucubb genotype) small, annual autogamous form of white-flowered sweetclover that is low in coumarin content and low in B-glucosidase activity. Cucu alleles govern coumarin content. B/b alleles govern B-glucosidase activity in sweetclover. Seed should be scarified before planting. One of a set of 4 lines differing in coumarin content and B-glucosidase activity that represent all possible. Spring Annual. Genetic Material. Seed.
- PI 557504 **donor id:** N47. **origin:** United States. **pedigree:** Self-pollination of four different homozygous plants derived from a single, doubly-heterozygous F2 plant following 6 successive crosses of cucubb segregates to CuCuBB plants selected from PI 165554. **remarks:** N47 (cucuBB genotype) small, annual autogamous form of white-flowered sweetclover that is low in coumarin and high in B-glucosidase activity. Cu/cu alleles govern coumarin content and the B/b alleles govern B-glucosidase activity in sweetclover. Seed should be scarified before planting. One of a set of 4 lines differing in coumarin content and B-glucosidase activity that represent all possible. Spring Annual. Genetic Material. Seed.
- PI 557505 **donor id:** N48. **origin:** United States. **pedigree:** Self-pollination of four different homozygous plants derived from a single, doubly-heterozygous F2 plant following 6 successive crosses of cucubb segregates to CuCuBB plants selected from PI 165554. **remarks:** N48 (CuCubb genotype) small, annual autogamous form of white-flowered sweetclover that is high in coumarin and low in B-glucosidase activity. Cu/cu alleles govern coumarin content and the B/b alleles govern B-glucosidase activity in sweetclover. Seed should be scarified before planting. One of a set of 4 lines differing in coumarin content and B-glucosidase activity that represent all possible. Spring Annual. Genetic Material. Seed.

PI 557503 to 557533-continued

- PI 557506 **donor id:** N49. **origin:** United States. **pedigree:** Self-pollination of four different homozygous plants derived from a single, doubly-heterozygous F2 plant following 6 successive crosses of cucubb segregates to CuCuBB plants selected from PI 165554. **remarks:** N49 (CuCuBB genotype) small, annual autogamous form of white-flowered sweetclover that is high in coumarin and high in B-glucosidase activity. Cu/cu alleles govern coumarin content and the B/b alleles govern B-glucosidase activity in sweetclover. Seed should be scarified before planting. One of a set of 4 lines differing in coumarin content and B-glucosidase activity that represent all possible. Spring Annual. Genetic Material. Seed.
- PI 557507 **donor id:** N50. **origin:** United States. **pedigree:** F6 generation from single F1 plant obtained from cross of N1 strain, having dark green seeds (yyCC genotype) X a line designated JF-1, having light yellow seed (YYcc genotype). **remarks:** N50 (YYCC genotype) medium yellow seed & red seedling stem. Seed color in sweetclover is determined by combined effects of the presence or absence of green pigmentation in embryo & seed coat, controlled by Y/y alleles & of brown pigmentation in seed coat, conditioned by C/c alleles. The C/c alleles also control red vs. green seedling stem color. Seed should be scarified before planting. One of a set of 4. Biennial. Genetic Material. Seed.
- PI 557508 **donor id:** N51. **origin:** United States. **pedigree:** F6 generation from single F1 plant obtained from cross of N1 strain, having dark green seeds (yyCC genotype) X a line designated JF-1, having light yellow seed (YYcc genotype). **remarks:** N51 (YYcc genotype) light yellow seed & green seedling stem. Seed color in sweetclover is determined by combined effects of the presence or absence of green pigmentation in embryo & seed coat, controlled by Y/y alleles & of brown pigmentation in seed coat, conditioned by C/c alleles. The C/c alleles also control red vs. green seedling stem color. Seed should be scarified before planting. One of a set of 4. Biennial. Genetic Material. Seed.

- PI 557509 **donor id:** N52. **origin:** United States. **pedigree:** F6 generation from single F1 plant obtained from cross of N1 strain, having dark green seeds (yyCC genotype) X a line designated JF-1, having light yellow seed (YYcc genotype). **remarks:** N52 (yyCC genotype) dark green seed & red seedling stem. Seed color in sweetclover is determined by combined effects of the presence or absence of green pigmentation in embryo & seed coat, controlled by Y/y alleles & of brown pigmentation in seed coat, conditioned by C/c alleles. The C/c alleles also control red vs. green seedling stem color. Seed should be scarified before planting. One of a set of 4. Biennial. Genetic Material. Seed.
- PI 557510 **donor id:** N53. **origin:** United States. **pedigree:** F6 generation from single F1 plant obtained from cross of N1 strain, having dark green seeds (yyCC genotype) X a line designated JF-1, having light yellow seed (YYcc genotype). **remarks:** N53 (yycc genotype) silver green seed & green seedling stem. Seed color in sweetclover is determined by combined effects of the presence or absence of green pigmentation in embryo & seed coat, controlled by Y/y alleles & of brown pigmentation in seed coat, conditioned by C/c alleles. The C/c alleles also control red vs. green seedling stem color. Seed should be scarified before planting. One of a set of 4. Biennial. Genetic Material. Seed.
- PI 557511 **donor id:** N741. **origin:** United States. **pedigree:** F21 generation from an initial cucuBB X CuCubb cross followed by self-pollination of a single-doubly heterozygous plant in each generation from F1 to F17. The genotype was isolated in F18. **remarks:** N741 (cucubb genotype) biennial form of white-flowered sweetclover low in coumarin content and low in B-glucosidase activity. The Cu/cu alleles govern coumarin content and the B/b alleles govern B-glucosidase activity. Seed should be scarified before planting. One of a set of 4 lines differing in coumarin content and B-glucosidase activity that represent all possible homozygous combinations of 2. Biennial. Genetic Material. Seed.

PI 557503 to 557533-continued

- PI 557512 **donor id:** N743. **origin:** United States. **pedigree:** F21 generation from an initial cucuBB X CuCubb cross followed by self-pollination of a single-doubly heterozygous plant in each generation from F1 to F17. The genotype was isolated in F18. **remarks:** N743 (cucuBB genotype) biennial form of white-flowered sweetclover low in coumarin content and high in B-glucosidase activity. The Cu/cu alleles govern coumarin content and the B/b alleles govern B-glucosidase activity. Seed should be scarified before planting. One of a set of 4 lines differing in coumarin content and B-glucosidase activity that represent all possible homozygous. Biennial. Genetic Material. Seed.
- PI 557513 **donor id:** N745. **origin:** United States. **pedigree:** F21 generation from an initial cucuBB X CuCubb cross followed by self-pollination of a single-doubly heterozygous plant in each generation from F1 to F17. The genotype was isolated in F18. **remarks:** N745 (CuCubb genotype) biennial form of white-flowered sweetclover high in coumarin content and low in B-glucosidase activity. The Cu/cu alleles govern coumarin content and the B/b alleles govern B-glucosidase activity. Seed should be scarified before planting. One of a set of 4 lines differing in coumarin content and B-glucosidase activity that represent all possible homozygous. Biennial. Genetic Material. Seed.
- PI 557514 **donor id:** N747. **origin:** United States. **pedigree:** F21 generation from an initial cucuBB X CuCubb cross followed by self-pollination of a single-doubly heterozygous plant in each generation from F1 to F17. The genotype was isolated in F18. **remarks:** N747 (CuCuBB genotype) biennial form of white-flowered sweetclover high in coumarin content and high in B-glucosidase activity. The Cu/cu alleles govern coumarin content and the B/b alleles govern B-glucosidase activity. Seed should be scarified before planting. One of a set of 4 lines differing in coumarin content and B-glucosidase activity that represent all possible homozygous. Biennial. Genetic Material. Seed.
- PI 557515 **donor id:** U362. **origin:** United States. **pedigree:** The f mutation carried by line U362 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for the f (folded leaflet) gene, which is inherited as a simple recessive. Typical leaflets folded on the adaxial side from the tip to about half the length of the leaflet. Seed should be scarified before planting. Annual. Genetic Material. Seed.

- PI 557516 **donor id:** U363. **origin:** United States. **pedigree:** The el mutation carried by line U363 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for the el (elongated stem) gene, which is inherited as a simple recessive. Plants have longer than normal internodes, especially at the seedling stage, and branching and leaf production are markedly reduced. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557517 **donor id:** U367. **origin:** United States. **pedigree:** The dsp mutation carried by line U367 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for the dsp (short-petiole dwarf) gene, which is inherited as a simple recessive. Plants are much shorter than normal. Leaves are attached to stem by very short petioles. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557518 **donor id:** U369. **origin:** United States. **pedigree:** The ch8 mutation carried by line U369 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for the ch8 chlorophyll deficiency gene, which is inherited as a simple recessive. Leaves have reduced chlorophyll contents, but their chlorophyll a/b ratio is about that of normal leaves. Work on U369 has been reported in Biochem. Gen. 28:31. 1990. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557519 **donor id:** U370. **origin:** United States. **pedigree:** The ch9 mutation carried by line U370 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for the ch9 chlorophyll deficiency gene, which is inherited as a simple recessive. Leaves have reduced chlorophyll contents and elevated chlorophyll a/b ratios. Seed should be scarified before planting. Annual. Genetic Material. Seed.

- PI 557520 **donor id:** U371. **origin:** United States. **pedigree:** The chl0 mutation carried by line U371 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for the chl0 chlorophyll deficiency gene, which is inherited as a simple recessive. Leaves have reduced chlorophyll contents and elevated chlorophyll a/b ratios. Work on U371 has been reported in Biochem. Gen. 28:31. 1990. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557521 **donor id:** U372. **origin:** United States. **pedigree:** The chl1 mutation carried by line U372 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for the chl1 chlorophyll deficiency gene, which is inherited as a simple recessive. Leaves have reduced chlorophyll contents and elevated chlorophyll a/b ratios. Work on U372 has been reported in Biochem. Gen. 28:31. 1990. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557522 **donor id:** U373. **origin:** United States. **pedigree:** The chl2 mutation carried by line U373 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for the chl2 chlorophyll deficiency gene, which is inherited as a simple recessive. Leaves have reduced chlorophyll contents and somewhat reduced chlorophyll a/b ratios. Work on U373 has been reported in Biochem. Gen. 38:31. 1990. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557523 **donor id:** U374. **origin:** United States. **pedigree:** The ch5 mutation carried by line U374 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for the ch5 chlorophyll deficiency gene, which is inherited as a simple recessive. Leaves have reduced levels of total chlorophyll and appear to have no chlorophyll b. Work on U374 has been reported in Biochem. Gen. 28:31. 1990. Seed should be scarified before planting. Annual. Genetic Material. Seed.

- PI 557524 **donor id:** U389. **origin:** United States. **pedigree:** Single plant of PI 165554, from India, was self-pollinated and resulting seed planted to produce 95 plants. The selfed seed from these plants was bulked to form the basis of line U389. **remarks:** Plants small, annual, white-flowered, and autogamous. Chamber-grown plants attain height of 35-50cm and produce ripe seed within about 8 weeks after planting. Numerous mutants isolated following treatment of U389 seed with ethyl methanesulfonate. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557525 **donor id:** U390. **origin:** United States. **pedigree:** The dw mutation carried by line U390 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for dw (short-internode dwarf) gene, which is inherited as a simple recessive. Plants have about same number of nodes as their normal counterpart (line U389), but do not branch. Attain height of only 5-10cm compared to 35-50cm for U389 plants. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557526 **donor id:** U391. **origin:** United States. **pedigree:** The mf mutation carried by line U391 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for Mf (multifoliate leaf) gene, which is inherited as dominant. Leaves on single plant may have one to six leaflets rather than the normal three. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557527 **donor id:** U392. **origin:** United States. **pedigree:** The cl mutation carried by line U392 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for cl (curled leaf) gene, which is inherited as simple recessive. Plants characterized by curled leaflets and twisted or curved stems, petioles, and flower parts. Seed should be scarified before planting. Annual. Genetic Material. Seed.

PI 557503 to 557533-continued

- PI 557528 **donor id:** U393. **origin:** United States. **pedigree:** The cb mutation carried by line U393 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **remarks:** Plants homozygous for cb (cotyledonary branching) gene, which is inherited as simple recessive. A single branch develops in axil of each cotyledon, followed by development of branches from higher leaf axils. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557529 **donor id:** U394. **origin:** United States. **pedigree:** The ch4 mutation carried by line U394 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **other id:** Q839. **remarks:** Plants homozygous for ch4 chlorophyll deficiency gene, which is inherited as simple recessive. Leaves have reduced chlorophyll contents and strongly elevated chlorophyll a/b ratios. Work on U394 has been reported in Biochem. Gen. 28:31. 1990. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557530 **donor id:** U396. **origin:** United States. **pedigree:** The ch6 mutation carried by line U396 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **other id:** Q844. **remarks:** Plants homozygous for ch6 chlorophyll deficiency gene, which is inherited as simple recessive. Leaves have reduced chlorophyll contents and slightly elevated chlorophyll a/b ratios. Work on U396 has been reported in Biochem. Gen. 28:31. 1990. Seed should be scarified before planting. Annual. Genetic Material. Seed.
- PI 557531 **donor id:** U397. **origin:** United States. **pedigree:** The ch7 mutation carried by line U397 was isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **other id:** Q856. **remarks:** Plants homozygous for ch7 chlorophyll deficiency gene, which is inherited as simple recessive. Leaves have reduced chlorophyll contents with little or no alteration in the chlorophyll a/b ratio. Work on U397 has been reported in Biochem. Gen. 38:31. 1990. Seed should be scarified before planting. Annual. Genetic Material. Seed.

PI 557503 to 557533-continued

PI 557532 **donor id:** U398. **origin:** United States. **pedigree:** The ch5 chv mutations carried by line U398 were isolated following ethyl methanesulfonate treatment of seed of line U389, a small, annual, white-flowered, autogamous strain of sweetclover derived from PI 165554. **other id:** Q858. **remarks:** Plants homozygous for ch5 chlorophyll deficiency gene and chv dark leaf venation gene; ch5 and chv are both simple recessives. Leaves have reduced levels of total chlorophyll, no chlorophyll b, and dark veins. Work on U398 has been reported in Biochem. Gen. 28:31. 1990. Seed should be scarified before planting. Annual. Genetic Material. Seed.

PI 557533 **donor id:** U500. **origin:** United States. **pedigree:** U500 (ch5ch5dwdw genotype) was developed by crossing U395 (ch5ch5DwDw) / U390 (Ch5Ch5dwdw), identifying the ch5ch5dwdw genotype in the F2 generation, and self-pollinating this genotype. **remarks:** Plants homozygous for ch5 chlorophyll deficiency gene and dw short-internode dwarf gene. Both mutations were isolated following treatment of U389 sweetclover seed with ethyl methanesulfonate. Seed should be scarified before planting. Annual. Genetic Material. Seed.

PI 557534. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Cantrell, R.G., New Mexico Agr. Exp. Sta., New Mexico State Univ., Las Cruces, New Mexico, United States. **remarks:** Acala 1517-91. Received November 22, 1991.

origin: United States. **origin institute:** New Mexico Agr. Exp. Sta., New Mexico State Univ., Las Cruces, New Mexico 88003-0003. **cultivar:** ACALA 1517-91. **pedigree:** Acala 8130 / Acala 8874. **other id:** CV-99. **group:** CSR-COTTON. **remarks:** Plant height averages 94cm. Plant maturity 78% as measured by % of total crop harvested at first picking. Tolerance to Verticillium wilt at Las Cruces, NM, was 1.8 (1 = most tolerant, 5 = most susceptible). Bolls ovate and average 2.51g of lint per boll. Seed medium. Cultivar. Seed.

PI 557535 to 557536. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Nickell, C.D., Illinois Agr. Exp. Sta., University of Illinois, Urbana, Illinois, United States; and Agricultural Research Service -- USDA. **remarks:** L84-5873 and L84-5932 Germplasm Lines. Received November 22, 1991.

PI 557535 to 557536-continued

PI 557535 **origin:** United States. **origin institute:** Illinois Agr. Exp. Sta., University of Illinois, Urbana, Illinois 61801. **cultivar:** L84-5873. **pedigree:** Williams 82 X [PI 86150 X (Williams X Union)], F5. **other id:** GP-135. **group:** CSR-SOYBEAN. **remarks:** Maturity Group II. Stems indeterminate. Flowers white. Pubescence tawny. Seed dull yellow with black hila. Pods tan. Resistant to phytophthora rot (race 1), downy mildew, powdery mildew (gene Rmd), and to bacterial pustule (gene rxp). Spring Annual. Breeding Material. Seed.

PI 557536 **origin:** United States. **origin institute:** Illinois Agr. Exp. Sta., University of Illinois, Urbana, Illinois 61801. **cultivar:** L84-5932. **pedigree:** Williams 82 X [Williams X PI 90138], F5. **other id:** GP-136. **group:** CSR-SOYBEAN. **remarks:** Maturity Group II. Stems indeterminate. Flowers white. Pubescence tawny. Seed dull yellow with black hila. Pods brown. Resistant to phytophthora rot (race 1), downy mildew, powdery mildew (gene Rmd), and to bacterial pustule (Gene rxp). Spring Annual. Breeding Material. Seed.

PI 557537. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Cisar, G., Hybritech Seeds, Int., Inc., 6025 West 300 South, Lafayette, Indiana, United States. Received November 20, 1991.

donor id: LB 292. **origin:** United States. **origin institute:** Hybritech Seeds Int., Inc., 6025 West 300 South, Lafayette, Indiana 47905. **pedigree:** TI / N10-Bvr / 3 / TN*Cc. **remarks:** Soft red winter variety. Yield moderate. Heading 5 days later than Caldwell and 3 inches taller than Caldwell. Test weight moderate. MR to R reaction for leaf rust. MR reaction for powdery mildew. Not adapted to southern U.S. Winter Annual. Breeding Material. Seed.

PI 557538 to 557539. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Nelson, L.R., Texas A & M Research Center, P.O. Drawer E, Overton, Texas, United States. Received November 20, 1991.

PI 557538 to 557539-continued

PI 557538 **donor id:** TX 76-40-2. **origin:** United States. **origin institute:** Texas Agric. Exp. Sta., Overton, P.O. Drawer E, Overton, Texas 75684. **pedigree:** 71Coker-OR38 / 71T-8371. **remarks:** Semi-dwarf (32 inches) soft red winter variety. Resistance good to Septoria nodorum, fair to leaf rust, and good to powdery mildew. Yield above average. Soft wheat quality fair. Breeding Material. Seed.

PI 557539 **donor id:** TX 82-185. **origin:** United States. **origin institute:** Texas Agric. Exp. Sta., Overton, P.O. Drawer E, Overton, Texas 75684. **pedigree:** Pur.65104B-24 / / Ga 1123 / Reed. **remarks:** Semi-dwarf (32 inches) soft red variety. Resistance average to Septoria nodorum, fair to leaf rust, and good to powdery mildew. Soft wheat quality average. Breeding Material. Seed.

PI 557540 to 557541. *Phaseolus lunatus* L. FABACEAE

Donated by: Iwanaga, M., CIAT, Genetic Resources Unit, A.A. 6713, Cali, Colombia. Received November 20, 1991.

PI 557540 **donor id:** 32403. **origin:** Ecuador. **local name:** Frejol venada. **collector id:** DGD-2889. **other id:** W6 8241. **group:** W6. Cultivated. Seed.

PI 557541 **donor id:** 32413. **origin:** Ecuador. **collector id:** DGD-2900. **other id:** W6 8242. **group:** W6. Cultivated. Seed.

PI 557542. *Phaseolus* sp. FABACEAE

Donated by: Iwanaga, M., CIAT, Genetic Resources Unit, A.A. 6713, Cali, Colombia. Received November 20, 1991.

donor id: 32482. **origin:** Colombia. **local name:** Cachu azul. **collector id:** DGD-2975. **other id:** W6 8243. **group:** W6. Cultivated. Seed.

PI 557543 to 557552. *Phaseolus vulgaris* L. FABACEAE

Donated by: Iwanaga, M., CIAT, Genetic Resources Unit, A.A. 6713, Cali, Colombia. Received November 20, 1991.

PI 557543 **donor id:** 32380. **origin:** Ecuador. **collector id:** DGD-2865. **other id:** W6 8244. **group:** W6. Cultivated. Seed.

PI 557543 to 557552-continued

- PI 557544 **donor id:** 32395. **origin:** Ecuador. **local name:** Poroto de Paloma. **collector id:** DGD-2881. **other id:** W6 8245. **group:** W6. Cultivated. Seed.
- PI 557545 **donor id:** 32396. **origin:** Ecuador. **local name:** Poroto de Campo. **collector id:** DGD-2882. **other id:** W6 8246. **group:** W6. Cultivated. Seed.
- PI 557546 **donor id:** 32429. **origin:** Colombia. **local name:** Chiquito. **collector id:** DGD-2905. **other id:** W6 8247. **group:** W6. Cultivated. Seed.
- PI 557547 **donor id:** 32431. **origin:** Colombia. **local name:** Vagabundo, Sinverquenza. **collector id:** DGD-2907. **other id:** W6 8248. **group:** W6. Cultivated. Seed.
- PI 557548 **donor id:** 32441. **origin:** Colombia. **local name:** Frijol Repelente, Rochela. **collector id:** DGD-2923. **other id:** W6 8249. **group:** W6. Cultivated. Seed.
- PI 557549 **donor id:** 32443. **origin:** Colombia. **local name:** Rochelas. **collector id:** DGD-2927. **other id:** W6 8250. **group:** W6. Cultivated. Seed.
- PI 557550 **donor id:** 32478. **origin:** Colombia. **local name:** Cejudo. **collector id:** DGD-2971. **other id:** W6 8251. **group:** W6. Cultivated. Seed.
- PI 557551 **donor id:** 32489. **origin:** Colombia. **collector id:** DGD-2984. **other id:** W6 8252. **group:** W6. Cultivated. Seed.
- PI 557552 **donor id:** 32495. **origin:** Colombia. **local name:** Habichuela. **collector id:** DGD-90/90. **other id:** W6 8253. **group:** W6. Cultivated. Seed.

PI 557553. *Cynodon dactylon* (L.) Pers. POACEAE Bermudagrass

Donated by: Quicksand Plant Materials Center, USDA-SCS, Quicksand, Kentucky, United States. Received November 19, 1991.

origin: United States. **other id:** 9034348. **remarks:** Vigorous & productive (at low fertility & nitrogen levels). Extremely winterhardy, drought tolerant, heat resistant, & salt tolerant. Densely growing, medium to fine textured, dark green leafy vegetation. Low, diffusely branched & extensively creeping stoloniferous & rhizomatous. Perennial warm-season grass with flat leaves & slender spikes. Propagates from runners & underground roots. Turf. Cultivated. Plant.

PI 557554. *Lactuca sativa* L. ASTERACEAE Romaine lettuce

Donated by: Petoseed Company, Inc., United States. Received November 27, 1991.

origin: United States. **origin institute:** Petoseed Company, Inc.. **cultivar:** AUGUSTUS. **other id:** PVP 9200010. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557555. *Lactuca sativa* L. ASTERACEAE Romaine lettuce

Donated by: Petoseed Company, Inc., United States. Received November 27, 1991.

origin: United States. **origin institute:** Petoseed Company, Inc.. **cultivar:** ROMULUS. **other id:** PVP 9200011. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557556. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Northrup King Company, United States. Received November 27, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** 911. **other id:** PVP 9200012. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557557. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Northrup King Company, United States. Received November 27, 1991.

origin: United States. **origin institute:** Northrup King Company. **cultivar:** 912. **other id:** PVP 9200013. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557558. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: AgraTech Seeds, Inc., United States. Received November 27, 1991.

origin: United States. **origin institute:** AgraTech Seeds, Inc.. **cultivar:** VC-1. **other id:** PVP 9200014. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557559. *Pisum sativum* L. FABACEAE Pea

Donated by: Van Waveren-Pflanzenzucht GMBH, Germany. Received November 27, 1991.

origin: Germany. **origin institute:** Van Waveren-Pflanzenzucht GMBH. **cultivar:** PREMIUM. **other id:** PVP 9200015. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557560. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Stoneville Pedigreed Seed Company, Inc., United States. Received November 27, 1991.

origin: United States. **origin institute:** Stoneville Pedigreed Seed Company, Inc.. **cultivar:** STONEVILLE 907. **other id:** PVP 9200016. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557561. *Cucumis melo* L. CUCURBITACEAE Muskmelon

Donated by: Robert E. and Lisa C. Mourey, United States. Received November 27, 1991.

origin: United States. **origin institute:** Robert E. and Lisa C. Mourey. **cultivar:** SWEET APRIL. **other id:** PVP 9200017. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557562. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States. Received November 27, 1991.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc.. **cultivar:** LH197. **other id:** PVP 9200020. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557563. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States. Received November 27, 1991.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc.. **cultivar:** LH198. **other id:** PVP 9200021. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557564. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Royal Sluis, Koninklijke, Netherlands. Received November 27, 1991.

origin: Netherlands. **origin institute:** Royal Sluis, Koninklijke. **cultivar:** CLEMENTE. **other id:** PVP 9200022. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557565. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Royal Sluis, Koninklijke, Netherlands. Received November 27, 1991.

origin: Netherlands. **origin institute:** Royal Sluis Koninklijke. **cultivar:** DEL REY. **other id:** PVP 9200023. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557566. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States. Received November 27, 1991.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc.. **cultivar:** LH199. **other id:** PVP 9200024. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557567. *Tagetes patula* L. ASTERACEAE Marigold

Donated by: Goldsmith Seeds, Inc., United States. Received November 27, 1991.

origin: United States. **origin institute:** Goldsmith Seeds, Inc.. **cultivar:** JANIE DEEP ORANGE. **other id:** PVP 9200025. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557568. *Tagetes patula* L. ASTERACEAE Marigold

Donated by: Goldsmith Seeds, Inc., United States. Received November 27, 1991.

origin: United States. **origin institute:** Goldsmith Seeds, Inc.. **cultivar:** JANIE PRIMROSE. **other id:** PVP 9200027. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557569. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received November 27, 1991.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc.. **cultivar:** LH216. **other id:** PVP 9200028. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 557570 to 557578. *Mentha aquatica* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557570 **origin:** Netherlands. **pedigree:** Probably a selection (strain 1). **local name:** Water Mint. **remarks:** Fully fertile, $2n=96$ (octoploid), individuals of a selfed progeny have strong menthofuran odor. Perennial. Breeding Material. Plant.

PI 557571 **origin:** UNKNOWN. **historical origin:** United States. **origin institute:** USDA/ARS, BARC-West, Beltsville, Maryland. **pedigree:** Probably a selection from European seedlot. **local name:** Water Mint. **remarks:** Diploid, late maturing and flowers sparsely, has very long stolons, usually male sterile. Perennial. Breeding Material. Plant.

PI 557572 **origin:** Germany. **historical origin:** Pakistan. **pedigree:** Uncertain, possibly a selection from German seedlot. **local name:** Water Mint. **remarks:** High menthofuran, fully fertile, octoploid ($2n=96$). Individuals of S1 progeny have strong menthofuran odor. Perennial. Breeding Material. Plant.

PI 557573 **origin:** Germany. **historical origin:** United States. **origin institute:** M. Todd Co., Kalamazoo, Michigan. **pedigree:** Clone of German strain 3 donated by Baquar. **local name:** Water Mint. **remarks:** Used as a second tester strain to check results of crosses with Dutch strain. Fully seed fertile but male sterile. Perennial. Breeding Material. Plant.

PI 557574 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Water Mint. **remarks:** Almost glabrous, terminal flowers, weak *aquatica* odor, red stems, fully fertile. May have more limone than standard. Perennial. Wild. Plant.

PI 557570 to 557578-continued

- PI 557575 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **local name:** Water Mint. **remarks:** Fertile and similar to 10179. Odor weak menthofuran, menthone and a weak peppermint aspect. Perennial. Breeding Material. Plant.
- PI 557576 **origin:** France. **pedigree:** Collected from the wild in France. **local name:** Water Mint. **locality:** Canal de Bourgogne, Dijon. **remarks:** MJM: typical aquatica odor, equivalent in hairiness to Dutch and German aquatica strains. Perennial. Wild. Plant.
- PI 557577 **origin:** United Kingdom. **pedigree:** Probably originally selected from the wild. **local name:** Water Mint. **remarks:** MJM: typical aquatica odor, terminal flowers, quite hairy, completely covering the whole stem. Fertile. Perennial. Cultivated. Plant.
- PI 557578 **origin:** Brazil. **pedigree:** Collected from the wild in Brazil. **local name:** Water Mint. **locality:** Campinas. **remarks:** MJM: terminal, capitate flowers, fertile, glabrous, mentho- furan odor, leaves toothed. Perennial. Wild. Plant.

PI 557579. *Mentha aquatica* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

origin: United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10188(MEN118,Thom.cit.) x 10172(MEN 107,Du aq) 4thBCTo10172. **local name:** Water Mint. **remarks:** Male-sterile M. aquatica hybrid. Perennial. Breeding Material. Plant.

PI 557580 to 557581. *Mentha aquatica* L. LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany. Received April 21, 1988.

- PI 557580 **origin:** Portugal. **pedigree:** Open pollinated from botanical collection. **local name:** Water Mint. Perennial. Cultivated. Seed.
- PI 557581 **origin:** Germany. **pedigree:** Open pollinated from botanical collection. **local name:** Water Mint. Perennial. Cultivated. Seed.

PI 557582 to 557583. *Mentha aquatica* L. LAMIACEAE Mint

Donated by: Bachmann, K., Hugo de Vries Laboratory, Amsterdam, Netherlands. Received September 26, 1989.

PI 557582 **origin:** Netherlands. **pedigree:** Collected from the wild in the Netherlands. **local name:** Water Mint. **collected:** September 05, 1989. **locality:** Westvoorne, moist dune valley. **latitude:** 52 deg. 00 min. N. **longitude:** 05 deg. 30 min. E. Perennial. Wild. Cutting.

PI 557583 **origin:** Netherlands. **pedigree:** Collected from the wild in the Netherlands. **local name:** Water Mint. **collected:** September 15, 1989. **locality:** Haarlem, Kennemer Duinen (dunes). **latitude:** 52 deg. 00 min. N. **longitude:** 05 deg. 30 min. E. Perennial. Wild. Cutting.

PI 557584 to 557589. *Mentha arvensis* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557584 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Corn Mint, Field Mint. **locality:** Hampshire, England. **remarks:** MJM: short, axillary flowers, male sterile and seed fertile. Perennial. Wild. Plant.

PI 557585 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Corn Mint, Field Mint. **locality:** Lynmouth, Devonshire, England. **remarks:** MJM: axillary flowers, not different from Cornwall 10262 in odor. Male sterile and seed fertile. Perennial. Wild. Plant.

PI 557586 **origin:** Germany. **historical origin:** Pakistan. **local name:** Corn Mint, Field Mint. **remarks:** Male sterile, fully seed fertile. $2n = 72$ Short, tends to be procumbent, produces abundant stolons. Perennial. Breeding Material. Plant.

PI 557587 **origin:** Pakistan. **local name:** Corn Mint, Field Mint. **remarks:** This strain gives almost no selfed seeds. Perennial. Breeding Material. Plant.

PI 557588 **origin:** France. **pedigree:** Collected from the wild in France. **local name:** Corn Mint, Field Mint. **locality:** Disturbed soil near Dijon, Chevigny, France. **remarks:** MJM: *arvensis* odor not different from 10261 and 10262 Two clones, one male sterile and one fertile. Perennial. Wild. Plant.

PI 557584 to 557589-continued

PI 557589 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **local name:** Corn Mint, Field Mint. **locality:** Near a stream through the Fairgrounds in Kempton. **remarks:** MJM: typical gentilis odor, axillary flowers, male sterile, appearance normal. Perennial. Wild. Plant.

PI 557590. *Mentha arvensis* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

origin: France. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Section from Dijon, France. **local name:** Corn Mint, Field Mint. **remarks:** Male sterile. Perennial. Breeding Material. Plant.

PI 557591 to 557596. *Mentha arvensis* L. LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany. Received April 21, 1988.

PI 557591 **origin:** Germany. **local name:** Corn Mint, Field Mint. Perennial. Cultivated. Plant.

PI 557592 **origin:** Germany. **pedigree:** Open pollinated from botanical collection. **local name:** Corn Mint, Field Mint. Perennial. Cultivated. Plant.

PI 557593 **origin:** Germany. **local name:** Corn Mint, Field Mint. Perennial. Cultivated. Plant.

PI 557594 **origin:** Germany. **local name:** Corn Mint, Field Mint. Perennial. Cultivated. Plant.

PI 557595 **origin:** Germany. **local name:** Corn Mint, Field Mint. Perennial. Cultivated. Plant.

PI 557596 **origin:** Germany. **local name:** Corn Mint, Field Mint. Perennial. Cultivated. Plant.

PI 557597. *Mentha arvensis* L. LAMIACEAE Mint

Donated by: Bachmann, K., Hugo de Vries Laboratory, Amsterdam, Netherlands. Received September 26, 1989.

PI 557597-continued

origin: Netherlands. **pedigree:** Collected from the wild in the Netherlands. **local name:** Corn Mint, Field Mint. **collected:** August 18, 1989. **locality:** De Hoge Veluwe Nat'l Park, near De Delense Was. **latitude:** 52 deg. 00 min. N. **longitude:** 05 deg. 30 min. E. Perennial. Wild. Cutting.

PI 557598 to 557604. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557598 **origin:** UNKNOWN. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Probably a selection from the wild. **remarks:** Fully fertile and has 96 somatic chromosomes. True breeding for morphological appearance and herbage odor. Perennial. Breeding Material. Plant.

PI 557599 **origin:** United States. **remarks:** MJM: Not male sterile but 75% bad pollen. Perennial. Cultivated. Plant.

PI 557600 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **locality:** North side of Jordan Creek, Allentown, PA. **remarks:** MJM: male sterile, resembles 10263 from West Germany. Perennial. Wild. Plant.

PI 557601 **origin:** Canada. **pedigree:** Collected from the wild in Ontario. **locality:** Park's Lake No. 2, Poland, Ont. **remarks:** MJM: Resembles 10247 in odor and appearance. Perennial. Wild. Plant.

PI 557602 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **remarks:** MJM: first choice. Perennial. Breeding Material. Plant.

PI 557603 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** S1 high menthol selection. **remarks:** MJM: 4th choice. Perennial. Breeding Material. Plant.

PI 557604 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** S1 high menthol selection. **remarks:** MJM: 10th choice. Perennial. Breeding Material. Plant.

PI 557605. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Kim, S.K., Korea, Republic of. Received April 07, 1983.

PI 557605-continued

origin: Korea, Republic of. **pedigree:** Collected from the wild in Korea. **collected:** October 15, 1981. **locality:** Cheongju area. Perennial. Wild. Seed.

PI 557606 to 557607. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Shimura, I., Tokyo, Japan. Received April 07, 1983.

PI 557606 **origin:** Japan. **pedigree:** Open pollinated from botanical collection. Perennial. Cultivated. Seed.

PI 557607 **origin:** Japan. **pedigree:** Open pollinated from botanical collection. Perennial. Cultivated. Seed.

PI 557608 to 557611. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

PI 557608 **origin:** Philippines. **pedigree:** Collected from the wild in the Philippines. Perennial. Wild. Plant.

PI 557609 **origin:** Canada. **pedigree:** Collected from the wild in Ontario. **locality:** Parks Lake No. 2, Poland, Ontario. **remarks:** Male sterile. Perennial. Wild. Plant.

PI 557610 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10285(MEN 177) 5th BC to 10285. **remarks:** Male sterile *M. canadensis* (*piperascens*) hybrid. Perennial. Breeding Material. Plant.

PI 557611 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10263(MEN 164, Baq arv ms) x 10286(Jap S1) 1st BC to 10286. **remarks:** Male sterile *M. canadensis* (*piperascens*) hybrid. Perennial. Breeding Material. Plant.

PI 557612. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Henderson, R.L., Oregon State University, Extension Seed Certification, Corvallis, Oregon, United States. Received September 06, 1989.

PI 557612-continued

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** September 05, 1989. **locality:** Found as a weed in a commercial mint field in Wheeler Co, OR. **latitude:** 44 deg. 30 min. N. **longitude:** 120 deg. W. Perennial. Wild. Cutting.

PI 557613. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Chambers, H.L., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 27, 1989.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** September 27, 1989. **locality:** Lakeshore of Lost Lake, near Tombstone Pass, Lane Co. **latitude:** 44 deg. 30 min. N. **longitude:** 121 deg. 50 min. W. Perennial. Wild. Cutting.

PI 557614. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Chambers, H.L., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received October 16, 1989.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** October 16, 1989. **locality:** Camp Sherman, near Metolius Meadows in an irrigation ditch. **latitude:** 44 deg. 30 min. N. **longitude:** 121 deg. 40 min. W. Perennial. Wild. Cutting.

PI 557615 to 557616. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Morton, J.K., University of Waterloo, Ontario, Canada. Received October 30, 1989.

PI 557615 **origin:** Canada. **pedigree:** Collected from the wild in Quebec, Canada. **locality:** Berthia. **latitude:** 50 deg. N. **longitude:** 70 deg. W. **remarks:** Type 3, 2n = 96. Perennial. Wild. Plant.

PI 557616 **origin:** Canada. **pedigree:** Collected from the wild in Quebec, Canada. **locality:** Ste. Louis de Blandford. **latitude:** 50 deg. N. **longitude:** 70 deg. W. **remarks:** Type 1, n = 48. Perennial. Wild. Plant.

PI 557617 to 557626. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Tucker, A.O., Delaware State College, Dover, Delaware, United States. Received November 30, 1990.

PI 557617 to 557626-continued

- PI 557617 **origin:** United States. **pedigree:** Collected from the wild in Maryland. **locality:** Charlestown Manor, edge of bulkhead. **latitude:** 39 deg. 36 min. N. **longitude:** 75 deg. 57 min. W. **Perennial.** Wild. Cutting.
- PI 557618 **origin:** United States. **pedigree:** Collected from the wild in New Jersey. **collected:** 1968. **locality:** New Brunswick, drainage ditch through Johnson Park. **latitude:** 40 deg. 30 min. N. **longitude:** 74 deg. 30 min. W. **remarks:** 2n=96 (Morton), male sterile, high pugelone. **Perennial.** Wild. Cutting.
- PI 557619 **origin:** United States. **pedigree:** Collected from the wild in New Jersey. **collected:** 1973. **locality:** S. branch of Raritan River, rocky edge of small sandbar. **latitude:** 40 deg. 20 min. N. **longitude:** 75 deg. W. **remarks:** Male sterile. **Perennial.** Wild. Cutting.
- PI 557620 **origin:** United States. **pedigree:** Collected from the wild in New Jersey. **collected:** 1973. **locality:** Douglass College campus, behind Lippenworth Hall. **latitude:** 40 deg. 15 min. N. **longitude:** 74 deg. 30 min. W. **Perennial.** Wild. Cutting.
- PI 557621 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **collected:** 1974. **locality:** Along Buffalo River by railroad tracks, Bellefont. **latitude:** 40 deg. 52 min. N. **longitude:** 77 deg. 51 min. W. **remarks:** High pugelone and fully fertile. **Perennial.** Wild. Cutting.
- PI 557622 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **collected:** 1974. **locality:** Along Buffalo River by railroad tracks, Bellefont. **latitude:** 40 deg. 52 min. N. **longitude:** 77 deg. 51 min. W. **remarks:** Male sterile. **Perennial.** Wild. Cutting.
- PI 557623 **origin:** United States. **pedigree:** Collected from the wild in Colorado. **collected:** 1974. **locality:** Along stream bottom in Rist Canyon near Bellevue. **latitude:** 40 deg. 45 min. N. **longitude:** 105 deg. 15 min. W. **Perennial.** Wild. Cutting.
- PI 557624 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **collected:** 1975. **locality:** Damp edge of lawn at Mirick summer home near Erwinna. **latitude:** 40 deg. 20 min. N. **longitude:** 75 deg. W. **Perennial.** Wild. Cutting.

PI 557617 to 557626-continued

PI 557625 **origin:** Canada. **pedigree:** Collected from the wild in Quebec. **locality:** Montmagny, Berthia. **latitude:** 47 deg. N. **longitude:** 71 deg. W. **remarks:** High linalool, low ocimene. Perennial. Wild. Cutting.

PI 557626 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **collected:** 1976. **locality:** Approx. 1 mile North of Effort. **latitude:** 40 deg. 57 min. N. **longitude:** 75 deg. 26 min. W. **remarks:** Male sterile. Perennial. Wild. Cutting.

PI 557627 to 557628. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Tucker, A.O., Delaware State College, Dover, Delaware, United States. Received December 05, 1990.

PI 557627 **origin:** United States. **pedigree:** Uncertain, from botanical gardens. Perennial. Cultivated. Cutting.

PI 557628 **origin:** United States. **pedigree:** Collected from the wild. Perennial. Wild. Cutting.

PI 557629 to 557633. *Mentha canadensis* L. LAMIACEAE Mint

Donated by: Tucker, A.O., Delaware State College, Dover, Delaware, United States. Received June 06, 1991.

PI 557629 **origin:** Canada. **pedigree:** Collected from the wild in Ontario. **locality:** Rock Lake. Perennial. Wild. Plant.

PI 557630 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **locality:** Timirjasevka. Perennial. Wild. Plant.

PI 557631 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **locality:** Cook's Creek, Springtown. Perennial. Wild. Plant.

PI 557632 **origin:** United States. **pedigree:** Collected from the wild in Utah. Perennial. Wild. Plant.

PI 557633 **origin:** USSR. **pedigree:** Open pollinated from botanical collection. Perennial. Cultivated. Plant.

PI 557634. *Mentha cervina* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557634-continued

origin: United Kingdom. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Seedling selection. **remarks:** Original seedlot donated by A.G. Stuart, Norwich, England. Perennial. Breeding Material. Plant.

PI 557635 to 557636. *Mentha cervina* L. LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany. Received April 21, 1988.

PI 557635 **origin:** Hungary. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from Hungarian seedlot CMEN 656. Perennial. Breeding Material. Plant.

PI 557636 **origin:** Germany. **historical origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from German seedlot CMEN 657. Perennial. Breeding Material. Plant.

PI 557637. *Mentha dahurica* Fischer ex Benth. LAMIACEAE Mint

Donated by: Gilly, G., INRA, Antibes, France. Received June 26, 1989.

origin: USSR. **pedigree:** Seedling selection from OP seedlot from Taschkent collection. Perennial. Cultivated. Plant.

PI 557638. *Mentha dahurica* Fischer ex Benth. LAMIACEAE Mint

Donated by: Montarone, M., INRA, France. Received October 27, 1989.

origin: USSR. **historical origin:** France. **origin institute:** INRA, Station Agronomie et de Phys. Vegetale, Antibes, Uzbek SSR 06606. **pedigree:** Seedling selection from seedlot from Taschkent collection. Perennial. Breeding Material. Plant.

PI 557639. *Mentha gattefossei* Maire LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557639-continued

origin: Morocco. **historical origin:** United States.
origin institute: A.M. Todd Co., Kalamazoo, Michigan.
pedigree: Seedling selection from seedlot collected in Morocco. **remarks:** Original seedlot donated by A.G. Stuart, Norwich, England. Perennial. Breeding Material. Plant.

PI 557640 to 557641. *Mentha gattefossei* Maire LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany.
Received April 21, 1988.

PI 557640 **origin:** Germany. **pedigree:** Open pollinated from botanical collection. Perennial. Cultivated. Seed.

PI 557641 **origin:** Austria. **historical origin:** United States.
origin institute: USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from Austrian seedlot CMEN 658. Perennial. Breeding Material. Plant.

PI 557642. *Mentha gattefossei* Maire LAMIACEAE Mint

Donated by: Robbins, P., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received February 15, 1989.

origin: Germany. **historical origin:** United States.
origin institute: USDA/ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from seedlot CMEN 528. Perennial. Breeding Material. Plant.

PI 557643 to 557735. *Mentha* hybrid LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557643 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** *M. rotundifolia* (10014) x *longifolia* (10028) F1(2). Perennial. Breeding Material. Plant.

PI 557644 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** 10014 x 10028 (*rotundifolia* x *longifolia*) F1. **remarks:** Poorly fertile and very heterozygous. Perennial. Breeding Material. Plant.

PI 557643 to 557735-continued

- PI 557645 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** 10015 x 10029 (rotundifolia x longifolia tet.) Fl. **remarks:** Fully fertile and true breeding. Perennial. Breeding Material. Plant.
- PI 557646 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** M. crispa x 4n longifolia (10095 x 10029). **remarks:** F2 selection used as a tester strain having 68% isomethone, fully fertile. Perennial. Breeding Material. Plant.
- PI 557647 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10189(MEN 119,Loom. cit) x 10172(MEN 107,Du aq)Fl,2ndBC10189. **local name:** Bergamot Mint, Lemon Mint. **remarks:** Heterozygous fertile strain, useful as a pollen parent, fully fertile and very vigorous, large flower spikes. Perennial. Breeding Material. Plant.
- PI 557648 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10187 (MEN 117,Cal Norb cit) x 10172 (MEN 107,Du aq) Fl. **remarks:** Male sterile but seed fertile, genotype ilil i2i2 Lml1ml1 Lm2 lm2. 67.5% limolene and 23.6% cineole. Perennial. Breeding Material. Plant.
- PI 557649 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10188 (MEN 118, Thom.cit) x 10172 (MEN 107, Du aq) BC to aq. **remarks:** Odor: isopinocampnone, fertile M. aquatica hybrid. Perennial. Breeding Material. Plant.
- PI 557650 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10172 (MEN 107,Dutch aq.) x 10157 (MEN 97) Fl. **remarks:** Highly sterile, similar to cultivar Mitcham. Perennial. Breeding Material. Plant.
- PI 557651 **origin:** United States. **pedigree:** M. aquatica x M. spicata. **remarks:** Terminal flowers, male sterile, leaves medium, light green very crisp. Highly seed sterile. Perennial. Cultivated. Plant.
- PI 557652 **origin:** United States. **pedigree:** Collected from the wild in New Jersey. **locality:** By Old Mill near the Central Railroad NE of High Bridge NJ. **remarks:** MJM: 6x, male and seed sterile, odor spearmint and hot M. aquatica x M. spicata. Perennial. Wild. Plant.

PI 557643 to 557735-continued

- PI 557653 **origin:** Brazil. **cultivar:** IAC 09. **pedigree:** M. arvensis x M. spicata. **remarks:** MJM: Brazil '09. Perennial. Breeding Material. Plant.
- PI 557654 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** Impossible to determine from notes (Murray p.87, Haunold p24). **remarks:** Selection has 92% menthone M. hybrid (arvensis-spicata-longifolia) ?. Perennial. Breeding Material. Plant.
- PI 557655 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10017 (MEN 9,Du 6), 4th BC to 10017. **remarks:** Male sterile M. hybrid (spicata x suaveolens). Perennial. Breeding Material. Plant.
- PI 557656 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10023 (MEN 14,Thom 196)2ndBC to 10023. **remarks:** Male-sterile M. spicata x suaveolens. Perennial. Breeding Material. Plant.
- PI 557657 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10025 (MEN 71,Du-17-4) x 10020 (MEN 12,Tom rot),2nd BC 10020. **remarks:** Male-sterile M. spicata x suaveolens (rotundifolia) hybrid. Perennial. Breeding Material. Plant.
- PI 557658 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10028(MEN 17,2nSyl),4th BC to 10028. **local name:** Horse Mint. **remarks:** Male-sterile M. spicata x longifolia. Perennial. Breeding Material. Plant.
- PI 557659 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10028 & 10030(4nSlSl),5thBC 4nSylSl. **remarks:** Male-sterile (10029 & 10030 = colchicine-doubled 10028). M. spicata x longifolia. Perennial. Breeding Material. Plant.
- PI 557660 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10014 (MEN6,2n rot) x 10032 (MEN 18,DuSyl), 3rd BC to 10032. **remarks:** Male-sterile M. suaveolens (rot.) x longifolia. Perennial. Breeding Material. Plant.

PI 557643 to 557735-continued

- PI 557661 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **cultivar:** MsFl. **pedigree:** 10125 (MEN 71,Du-17-4)x(10017[MEN9]x10018[MEN17]);2ndBCtohyb. **remarks:** Male-sterile suaveolens-longifolia-spicata hybrid. Perennial. Breeding Material. Plant.
- PI 557662 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN71,Du-17-4)x(10018[MEN10]x10028[MEN17])2ndBCtohyb. **remarks:** Male-sterile suaveolens-longifolia-spicata hybrid. Perennial. Breeding Material. Plant.
- PI 557663 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4)x(10016[MEN8]x10031[2nSyl])4thBCtohyb. **remarks:** Male-sterile (10031 is indistinguishable from 10028). suaveolens-longifolia-spicata hybrid. Perennial. Breeding Material. Plant.
- PI 557664 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4)x(10015[MEN7]x10029[4nSylSl])4thBCtohyb. **remarks:** Male-sterile suaveolens-longifolia-spicata hybrid. Perennial. Breeding Material. Plant.
- PI 557665 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10068(4n Todd Nil Sl) 2nd BCto 1006. **remarks:** Male-sterile. 10068 was colchicine-induced tet.Sl,see notes M.spicata x villosa var alopecuroides. Perennial. Breeding Material. Plant.
- PI 557666 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10073(4nUS Nil Sl)3rd BC to 10073. **remarks:** Male-sterile. 10073=tetraploid Sl from same source 10072. M. spicata x villosa var. alopecuroides (niliaca). Perennial. Breeding Material. Plant.
- PI 557667 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(MEN 107,Du aq ms) x 10285(MEN 177,JapSl)5thBCto10285. **local name:** Japanese Mint. **remarks:** Male-sterile, 10285 is Sl of 10274, high menthol M. aquatica x canadensis (piperascens) hybrid. Perennial. Breeding Material. Plant.

- PI 557668 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(MEN 107, Du aq ms) x 10286(Jap S1) 5th BC to 10286. **local name:** Japanese Mint. **remarks:** Male-sterile, high menthol, 10286 is S1 of 10274. *M. aquatica* x *canadensis* (*piperascens*) hybrid. Perennial. Breeding Material. Plant.
- PI 557669 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10285(MEN 177, Jap S1) 5th BC to 10285. **local name:** Japanese Mint. **remarks:** Male-sterile, menthone, 10285 is S1 of 10274 *M. aquatica* x *canadensis* (*piperascens*) hybrid. Perennial. Breeding Material. Plant.
- PI 557670 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10285(MEN 177, Jap S1) 4th BC to 10285. **local name:** Japanese Mint. **remarks:** Male-sterile, menthone, 10285 is S1 of 10274 *M. aquatica* x *canadensis* (*piperascens*) hybrid. Perennial. Breeding Material. Plant.
- PI 557671 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10263(MEN 164, Baq arv ms) x 10286(Jap S1) 2nd BC to 10286. **local name:** Japanese Mint. **remarks:** Male-sterile, 10286 is S1 of 10274. *M. arvensis* x *canadensis* (*piperascens*) hybrid. Perennial. Breeding Material. Plant.
- PI 557672 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10263(MEN 164, Baq arv ms) x 10288(Jap S1) 1st BC to 10288. **local name:** Japanese Mint. **remarks:** Male-sterile, 10288 is S1 of 10274 *M. arvensis* x *canadensis* (*piperascens*) hybrid. Perennial. Breeding Material. Plant.
- PI 557673 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10310(MEN 189, 2n Sc) 5th BC to 10310. **local name:** Scotch Mint. **remarks:** Male-sterile *M. aquatica* x *gracilis* (*cardiaca*) hybrid. Perennial. Breeding Material. Plant.
- PI 557674 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10213(MEN 134, 4n pepp) 5th BC to 10213. **local name:** Peppermint. **remarks:** Male-sterile, 10213 is colchicine-induced strain of Mitcham *M. aquatica* x *piperita* hybrid. Perennial. Breeding Material. Plant.

PI 557643 to 557735-continued

- PI 557675 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10185(MEN 116,2n cit) x 10172(MEN 107,Du aq)3rd BC to 10172. **local name:** Water Mint. **remarks:** Male-sterile M. citrata x aquatica hybrid. Perennial. Breeding Material. Plant.
- PI 557676 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10190(MEN 120,Derk cit) x 10172(MEN 107,Du aq)4thBCto10172. **local name:** Water Mint. **remarks:** Male-sterile M. citrata x aquatica hybrid. Perennial. Breeding Material. Plant.
- PI 557677 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10189(MEN 119,Loom cit) x 10176(MEN 109,Baq aq)3rdBCto10176. **local name:** Water Mint. **remarks:** Male-sterile M. citrata x aquatica hybrid. Perennial. Breeding Material. Plant.
- PI 557678 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10187(MEN 117,CalNorb cit)x10172(MEN 107,Du aq)4thBCto10187. **local name:** Bergamot Mint, Lemon Mint. **remarks:** Fertile M. x piperita var citrata x aquatica hybrid. Perennial. Breeding Material. Plant.
- PI 557679 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** spicata(2n=48) x 10032(MEN 18,DuSyl)1st BC to10028(MEN 17). **local name:** Horse Mint. **remarks:** Breeding goal:to get carvone into longifol.see Murray notes M. spciata x longifolia hybrid. Perennial. Breeding Material. Plant.
- PI 557680 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** spicata(2n=48) x 10032(MEN 18,DuSyl)4th BC to 10028(MEN 17). **remarks:** Breeding goal:to get menthone into longifol.see Murray notes M. spicata x longifolia hybrid. Perennial. Breeding Material. Plant.
- PI 557681 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** spicata(2n=48) x 10029(4nSyl) 5th BC to 10029. **local name:** Horse Mint. **remarks:** Breeding goal: to get carvone into 4nSyl. M. spicata x longifolia hybrid. Perennial. Breeding Material. Plant.
- PI 557682 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** spicata(2n=48) 10029(4nSyl) 5th BC to 10029. **local name:** Horse Mint. **remarks:** Breeding goal: to get glabrous foliage into 4nSyl. M. spicata x longifolia hybrid. Perennial. Breeding Material. Plant.

PI 557643 to 557735-continued

- PI 557683 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** M. spicata (2n=48) x 10017(CMEN 9), 2nd bc to 10017. **remarks:** Breeding goal to get carvone into Du. 6 rot. M. spicata x suaveolens hybrid. Perennial. Breeding Material. Plant.
- PI 557684 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** M. spicata(2n=48) x 10017(MEN 9,Du 6 rot) 6th BC to 10017. **remarks:** Breeding goal: to get pulegone into Du 6 rot. M. spicata x suaveolens (rotundifolia) hybrid. Perennial. Breeding Material. Plant.
- PI 557685 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** M. spicata(2n=48) x 10017(MEN 9,Du 6 rot) 4th BC to 10017. **remarks:** Breeding goal: to get piperitone into Du 6 rot. M. spicata x suaveolens (rotundifolia) hybrid. Perennial. Breeding Material. Plant.
- PI 557686 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** M. arvensis(2n=96) x 10157(MEN 97) 4th BC to 10157. **local name:** Spearmint. **remarks:** Breeding goal: to get axillary flowers into spicata M. arvensis x spicata hybrid. Perennial. Breeding Material. Plant.
- PI 557687 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10213(MEN 134,4n pepp) x crispa(2n=96)6th BC to 10213. **local name:** Peppermint. **remarks:** Breeding goal: to get carvone into 4n pepp. '89 IDX? M. x piperita x crispa hybrid. Perennial. Breeding Material. Plant.
- PI 557688 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10213(MEN 134,4n pepp) x 10098(MEN 58,4nCrSl)3rd BC to 10213. **local name:** Peppermint. **remarks:** Breeding goal: to get carvone into 4n pepp M. x piperita x crispa hybrid. Perennial. Breeding Material. Plant.
- PI 557689 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10213(MEN 134,4n pepp) x 10098(MEN 58,4nCrSl)3rd BC to 10213. **local name:** Peppermint. **remarks:** Goal: to get higher menthone & crisp leaves etc.see Murray M. x piperita x crispa hybrid. Perennial. Breeding Material. Plant.

- PI 557690 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** M. citrata (2n=96) x 10213(MEN 134,4n pepp)5th BC to 10213. **local name:** Peppermint. **remarks:** Breeding goal: to get linalool into 4n pepp M. citrata x piperita hybrid. Perennial. Breeding Material. Plant.
- PI 557691 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10213(MEN 134,4n pepp) x 10172(MEN 107,Du aq)5th BC to 10172. **local name:** Water Mint. **remarks:** Breeding goal: to get peppermint odor into aquatica.(Murray) M. x piperita x aquatica hybrid. Perennial. Breeding Material. Plant.
- PI 557692 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10172(MEN 107,Du aq) x 10196(MEN 126) 4th BC to 10172. **local name:** Water Mint. **remarks:** Goal: to get limonene into Du aq; see Murray notes re cithyb M. aquatica x citrata hybrid. Perennial. Breeding Material. Plant.
- PI 557693 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10199(MEN 128) x 10176(MEN 109,Baq aq)4th BC to 10176. **local name:** Water Mint. **remarks:** Breeding goal: to get limonene into Baq aq. M. aquatica x citrata hybrid. Perennial. Breeding Material. Plant.
- PI 557694 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10172(MEN 107,Du aq) x 10201(MEN 129) 2nd BC to 10172. **local name:** Water Mint. **remarks:** Goal: to get isopinocampnone into Du aq. see notes re cithyb M. aquatica x citrata hybrid. Perennial. Breeding Material. Plant.
- PI 557695 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10172(MEN 107,Du aq) x 10274(2nJap)4th BC to 10172. **local name:** Water Mint. **remarks:** Breeding goal: to get high menthol into Du aq. M. aquatica x piperascens hybrid. Perennial. Breeding Material. Plant.
- PI 557696 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10172(MEN 107,Du aq) x crispa(2n=96) 5th BC to 10172. **local name:** Water Mint. **remarks:** Goal: to get carvone from polypl. crispa into aquatica M. aquatica x crispa hybrid. Perennial. Breeding Material. Plant.

PI 557643 to 557735-continued

- PI 557697 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10189(MEN 119,Loom cit) x 10247(MEN 156,2n arv)3rdBCto10247. **local name:** Corn Mint, Field Mint. **remarks:** Goal: to get linalool & linalyl acet. from cit to arv. M. citrata x arvensis hybrid. Perennial. Breeding Material. Plant.
- PI 557698 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10185(MEN 116, 2n cit) x 10017(MEN 9,Du 6) Fl. **remarks:** Odor: citrata, male-sterile (Chambers) M. hybrid (citrata x suaveolens(rotundifolia) Fl). Perennial. Breeding Material. Plant.
- PI 557699 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10185(MEN 116,2n cit) x 10015(MEN 7,4n rot) Fl. **remarks:** Odor: citrata, 10015 is colchicine-induced from 10014. M. hybrid (citrata x suaveolens (rotundifolia) Fl). Perennial. Breeding Material. Plant.
- PI 557700 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10185 (MEN 116, 2n cit) x longifolia (no #) Fl. **remarks:** Odor: non-citrata, '89 IDX? M. hybrid (citrata x longifolia Fl). Perennial. Breeding Material. Plant.
- PI 557701 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10185(MEN 116,2n cit) x 10132(MEN 78,Missiones) Fl. **remarks:** Odor: citrata M. hybrid (citrata x spicata Fl). Perennial. Breeding Material. Plant.
- PI 557702 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10187(MEN 117,Cal Norb) x 10132(MEN 78, Missiones) Fl. **remarks:** Odor: citrata M. hybrid (citrata x spicata Fl). Perennial. Breeding Material. Plant.
- PI 557703 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10185(MEN116,2n cit) x 10085(MEN 49,M.cord.Dol.)Fl. **remarks:** Odor: citrata M. hybrid (citrata x spicata (rugose form, cordifolia))Fl. Perennial. Breeding Material. Plant.
- PI 557704 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10185(MEN 116,2n cit) x 10089(MEN 52,Thom 201) Fl. Perennial. Breeding Material. Plant.

PI 557643 to 557735-continued

- PI 557705 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10089(MEN 52,Thom 201) x 10196(MEN 126,Loom.cit.hybrid). **remarks:** Odor: citrata M. hybrid [spicata (rugose form) x citrata-aquatica hybrid]. Perennial. Breeding Material. Plant.
- PI 557706 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10187(MEN 117,Cal Norb) x 10247(MEN 156,2n arv)Fl. Perennial. Breeding Material. Plant.
- PI 557707 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10188(MEN 118,Thom cit.) x 10286(Jap Sl 5th) Fl. **remarks:** 10286 is Sl of IAC 701 (MEN 171) selected for hi menthol M. hybrid (citrata x piperascens) Fl. Perennial. Breeding Material. Plant.
- PI 557708 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10189(MEN 119,Loom. cit.) x 10286(Jap Sl 5th)Fl. **remarks:** 10286 is Sl of IAC 701 (MEN 171) selected for hi menthol. M. hybrid (citrata x piperascens) Fl. Perennial. Breeding Material. Plant.
- PI 557709 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10187(MEN 117,Cal Norb) x 10172(MEN 107,Du aq)1st BCTo10187. **local name:** Bergamot Mint, Lemon Mint. **remarks:** Odor: citrata M. x piperita var citrata x aquatica. Perennial. Breeding Material. Plant.
- PI 557710 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10017(MEN 9, Du 6 rot) x 10172(MEN 107,Du aq) Fl. **remarks:** Odor: weak menthone, ms Du 6 rot is 67-1007-9. M. hybrid (suaveolens x aquatica) Fl. Perennial. Breeding Material. Plant.
- PI 557711 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10017(MEN 9,Du 6 rot) Fl. **remarks:** Odor: weak menthone, IDX?'89. M. hybrid (aquatica x suaveolens)Fl. Perennial. Breeding Material. Plant.
- PI 557712 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10015(MEN 7,4n rot) Fl. **remarks:** Odor: weak menthone, not peppermint M. hybrid (aquatica x suaveolens) Fl. Perennial. Breeding Material. Plant.

PI 557643 to 557735-continued

- PI 557713 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10028(MEN 17, 2n Syl) Fl. **remarks:** Odor: peppermint M. hybrid (aquatica x longifolia) Fl. Perennial. Breeding Material. Plant.
- PI 557714 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10016(MEN 8, Fr rot) x 10028(MEN 17, 2n Syl) Fl x 10172(MEN 107. **remarks:** Odor: weak menthone. No acc.'89. M. hybrid (Aquatica x longifolia) Fl. Perennial. Breeding Material. Plant.
- PI 557715 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10406(2n line 1 ms) x 10172(MEN 107, Du aq) Fl. **remarks:** Odor: carvone, 10406 is the same as 10405 (MEN 224). M. hybrid (spicata x aquatica) Fl. Perennial. Breeding Material. Plant.
- PI 557716 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10108(MEN 65, 2n line 1) Fl. **remarks:** Odor: carvone M. Hybrid (aquatica x spicata) Fl. Perennial. Breeding Material. Plant.
- PI 557717 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10180(MEN 65, 2n line 1) Fl. **remarks:** Odor: peppermint M. hybrid (aquatica x spicata) Fl. Perennial. Breeding Material. Plant.
- PI 557718 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71, Du-17-4) x 10172(MEN 107, Du aq) Fl. **remarks:** Odor: carvone M. hybrid (spicata x aquatica) Fl. Perennial. Breeding Material. Plant.
- PI 557719 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10116(4n line 1 S2) Fl. **remarks:** Odor: weak peppermint, 10116 is self of 10109. M. hybrid (aquatica x spicata) Fl. Perennial. Breeding Material. Plant.
- PI 557720 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10110(MEN 66, 4n line 1 S2) Fl. **remarks:** Odor: weak peppermint M. hybrid (aquatica x spicata) Fl. Perennial. Breeding Material. Plant.

PI 557643 to 557735-continued

- PI 557721 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10432(Hyb Wisc. arv. ms.) x 10172(MEN 107, Du aq). **local name:** Corn Mint, Field Mint. **remarks:** Odor: weak arvensis: see notes M. hybrid (canadensis(arvensis) x aquatica). Perennial. Breeding Material. Plant.
- PI 557722 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10280(MEN 174, Thom 139) Fl. **remarks:** Menthol type M. hybrid (aquatica x piperascens) Fl. Perennial. Breeding Material. Plant.
- PI 557723 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10285(MEN 117, Jap Sl 4th) Fl. **remarks:** Odor: menthol M. hybrid (aquatica x piperascens) Fl. Perennial. Breeding Material. Plant.
- PI 557724 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10173(Du aq ms) x 10288(Jap Sl 8th) Fl. **remarks:** Odor: high menthol M. hybrid (aquatica x piperascens) Fl. Perennial. Breeding Material. Plant.
- PI 557725 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10440(see descriptor) x 10023(MEN 14). **remarks:** 10440=[10173(Du aq ms) x 10286(Jap Sl) 4th BC to 10286] M. canadensis (piperascens) hybrid, menthone odor. Perennial. Breeding Material. Plant.
- PI 557726 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10434(Jap Sl ms) x 10028(MEN 17, 2n Syl). **remarks:** Odor: menthone M. hybrid (piperascens-aquatica-longifolia). Perennial. Breeding Material. Plant.
- PI 557727 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10635 x 10102(MEN 60, Cr-2). **remarks:** Odor: spearmint. 10635 is ms MEN 236 x MEN 9. M. hybrid(piper.-aquatica-suaveol.-crispa). Perennial. Breeding Material. Plant.
- PI 557728 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10643 (Jap ms.) x 10159(62-214). **remarks:** Odor: menthol M. hybrid (piperascens-aquatica-longifolia-crispa). Perennial. Breeding Material. Plant.

PI 557643 to 557735-continued

- PI 557729 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10441(67-1051-9) x 10249(Wisc. arv). **remarks:** Odor: high menthol M. hybrid (piperascens-canadensis-aquatica). Perennial. Breeding Material. Plant.
- PI 557730 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10448(MEN 239,ms Jap hyb.) x 10253(Churchill arv). **remarks:** Odor: high menthol M. hybrid (piperascens- arvensis- aquatica). Perennial. Breeding Material. Plant.
- PI 557731 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10234(70-1217) x 10437(MEN 236,Jap Sl 5th). **remarks:** Odor: high menthol M. hybrid (piperascens-spicata-longifolia-arvensis). Perennial. Breeding Material. Plant.
- PI 557732 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10449(67-1049-10) x 10172(MEN 107, Du aq). **remarks:** Odor: peppermint M. hybrid (piperascens x aquatica). Perennial. Breeding Material. Plant.
- PI 557733 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** M. hybrid (10125 x 10015) Same germplasm represented elsewh. **remarks:** Odor: spearmint. Perennial. Breeding Material. Plant.
- PI 557734 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10259(vonRudloff arv) x 10172(MEN 107)1st BC to 10259. **remarks:** Odor: pulegone M. canadensis (arvensis) x aquatica hybrid. Perennial. Breeding Material. Plant.
- PI 557735 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10053(MEN 29, 2n Am Sp.) x 10176(MEN 109,Baq.aq) Fl. Perennial. Breeding Material. Plant.

PI 557736 to 557742. *Mentha* hybrid LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

- PI 557736 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10017 (Du 6 rot) x 10028 (MEN 17, 2n Syl) Fl. Perennial. Breeding Material. Plant.

PI 557736 to 557742-continued

- PI 557737 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10188(MEN 118,Thom. cit.) x 10172(MEN 107, Du aq)1stBCto aq. **local name:** Water Mint. **remarks:** Odor: isopinocampnone M. aquatica hybrid. Perennial. Breeding Material. Plant.
- PI 557738 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10018 (MEN 10, Du 6a) x 10028 (MEN 17, 2n Syl) Fl. **remarks:** Poorly fertile and very heterozygous M..hybrid [suaveolens (rotundifolia) x longifolia]. Perennial. Breeding Material. Plant.
- PI 557739 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** 79-040-22. **pedigree:** M. hybrid (suaveolens [rotundifolia] x longifolia) 79-040-2. **remarks:** This from open-pollinated seeds of 10040. Perennial. Breeding Material. Plant.
- PI 557740 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** 79-040-13. **pedigree:** M. hybrid (suaveolens [rotundifolia] x longifolia) 79-040-1. **remarks:** From open-pollinated seed of 10040. Perennial. Breeding Material. Plant.
- PI 557741 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** arvensis x crispa Sl (strain 191) Fl. Perennial. Breeding Material. Plant.
- PI 557742 **origin:** Brazil. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** 79-320C. **pedigree:** M. hybrid (arvensis x spicata) 79-320C. **other id:** IAC 09. **remarks:** MJM: seems to be an Fl hybrid between arvensis and spicata. Perennial. Breeding Material. Plant.

PI 557743 to 557750. *Mentha* hybrid LAMIACEAE Mint

Donated by: Tucker, A.O., Delaware State College, Dover, Delaware, United States. Received December 05, 1990.

- PI 557743 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 23-28. **pedigree:** M. arvensis x M. longifolia (CMEN 164 x CMEN 19). Perennial. Breeding Material. Cutting.

PI 557743 to 557750-continued

- PI 557744 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 23-40. **pedigree:** M. arvensis x M. longifolia (CMEN 164 x CMEN 19). Perennial. Breeding Material. Cutting.
- PI 557745 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 23-64. **pedigree:** M. arvensis x M. longifolia (CMEN 164 x CMEN 19). Perennial. Breeding Material. Cutting.
- PI 557746 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 28-13. **pedigree:** M. arvensis x M. longifolia (CMEN 185 x CMEN 19). Perennial. Breeding Material. Cutting.
- PI 557747 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 28-16. **pedigree:** M. arvensis x M. longifolia (CMEN 185 x CMEN 19). Perennial. Breeding Material. Cutting.
- PI 557748 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 23-7. **pedigree:** M. arvensis x M. longifolia (CMEN 164 x CMEN 19). Perennial. Breeding Material. Cutting.
- PI 557749 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 23-7 (4n). **pedigree:** arvensis x longifolia (prob. colchicine treated CMEN 611). Perennial. Breeding Material. Cutting.
- PI 557750 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 23-32. **pedigree:** M. arvensis x M. longifolia (CMEN 164 x CMEN 19). Perennial. Breeding Material. Cutting.

PI 557751 to 557753. *Mentha* hybrid LAMIACEAE Mint

Donated by: Tucker, A.O., Delaware State College, Dover, Delaware, United States. Received June 06, 1991.

- PI 557751 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 23-7. **pedigree:** M. arvensis x M. longifolia. Perennial. Breeding Material. Cutting.

PI 557751 to 557753-continued

PI 557752 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 23-26. **pedigree:** M. arvensis x M. longifolia. Perennial. Breeding Material. Cutting.

PI 557753 **origin:** United States. **origin institute:** Delaware State College, Dept. Ag. and Natural Resources, Dover, Delaware 19901-2275. **cultivar:** 23-30. **pedigree:** M. arvensis x M. longifolia. Perennial. Breeding Material. Cutting.

PI 557754. *Mentha japonica* (Miq.) Makino LAMIACEAE Mint

Donated by: Tanaka, H., NAIR, Dept. Genetic Resources, Japan.
Received November 28, 1989.

origin: Japan. **pedigree:** Collected from the wild in Japan. **locality:** Kannondai, Ibaraki-Ken, Honshu Island. **latitude:** 36 deg. 10 min. N. **longitude:** 140 deg. 10 min. E. Perennial. Wild. Plant.

PI 557755 to 557759. *Mentha longifolia* (L.) L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557755 **origin:** UNKNOWN. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Uncertain, possibly a seedling selection. **local name:** Horse Mint. **remarks:** Fully fertile and extremely hairy. Perennial. Breeding Material. Plant.

PI 557756 **origin:** Netherlands. **pedigree:** Collected from the wild in Holland. **local name:** Horse Mint. **locality:** Near Dordrecht. **remarks:** Fully fertile, not wooly hairy, has long narrow lanceolate leaves. Perennial. Wild. Plant.

PI 557757 **origin:** France. **pedigree:** Collected from the wild in France. **local name:** Horse Mint. **locality:** l'Ouche Riviere near Lac Artificiel, Dijon. **remarks:** MJM: Strong piperitone odor, terminal flowers fertile, extremely hairy, resembles longifolia. Perennial. Wild. Plant.

PI 557758 **origin:** India. **pedigree:** Collected from the wild in India. **local name:** Horse Mint. **locality:** Jammu. **remarks:** Originally received as M. royleana. MJM: Flowers terminal, spikes narrow, has anthers, looks fertile, strong mp odor. Perennial. Wild. Plant.

PI 557755 to 557759-continued

PI 557759 **origin:** United States. **historical origin:** United States.
origin institute: A.M. Todd Co., Kalamazoo, Michigan.
local name: Horse Mint. Perennial. Breeding Material.
Plant.

PI 557760 to 557765. *Mentha longifolia* (L.) L. LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany.
Received April 21, 1988.

PI 557760 **origin:** Italy. **local name:** Horse Mint. Perennial.
Cultivated. Plant.

PI 557761 **origin:** France. **pedigree:** Open pollinated from botanical
collection. **local name:** Horse Mint. Perennial.
Cultivated. Seed.

PI 557762 **origin:** France. **pedigree:** Open pollinated from botanical
collection. **local name:** Horse Mint. Perennial.
Cultivated. Seed.

PI 557763 **origin:** Belgium. **pedigree:** Open pollinated from
botanical collection. **local name:** Horse Mint.
Perennial. Cultivated. Seed.

PI 557764 **origin:** Italy. **pedigree:** Open pollinated from botanical
collection. **local name:** Horse Mint. Perennial.
Cultivated. Seed.

PI 557765 **origin:** Spain. **pedigree:** Open pollinated from botanical
collection. **local name:** Horse Mint. Perennial.
Cultivated. Seed.

PI 557766. *Mentha longifolia* (L.) L. LAMIACEAE Mint

Donated by: Thompson, M.M., Oregon State University, Dept.
Horticulture, Corvallis, Oregon, United States. **Received** July 26,
1990.

origin: USSR. **pedigree:** Collected from the wild in the
USSR. **local name:** Horse Mint. **collected:** July 1990.
locality: VIR Central Asian Station, Tashkent. **remarks:**
1.2m tall, grey foliage, lavender flowers. Perennial.
Wild. Cutting.

PI 557767. *Mentha longifolia* subsp. *capensis* (Thunb.) Briq. LAMIACEAE
Mint

Donated by: Els, A.J., Department of Agricultural Economics, and
Marketing, Pretoria, South Africa. Received March 21, 1990.

origin: South Africa. **local name:** Horse Mint.
Perennial. Plant.

PI 557768. *Mentha longifolia* subsp. *hymalaiensis* Briq. LAMIACEAE Mint

Donated by: Walker, J.G., National Arboretum, Herb Garden,
Washington, District of Columbia, United States. Received October
08, 1991.

origin: Nepal. **pedigree:** Collected from the wild in
Nepal. **locality:** Himalayas. Perennial. Wild. Cutting.

PI 557769. *Mentha longifolia* subsp. *polyadenia* (Briq.) Briq. LAMIACEAE
Mint

Donated by: Els, A.J., Department of Agricultural Economics, and
Marketing, Pretoria, South Africa. Received March 21, 1990.

origin: South Africa. **local name:** Horse Mint.
Perennial. Plant.

PI 557770. *Mentha longifolia* subsp. *typhoides* (Briq.) R. Harley
LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon
State University, Corvallis, Oregon, United States. Received
January 01, 1983.

origin: Syria. **pedigree:** Collected from the wild in
Syria. **local name:** Horse Mint. **locality:** Ksara.
remarks: MJM: Quite different, bland color, weak
piperitone, nauseating candy odor, very short, numerous
hairs on stem. Perennial. Wild. Plant.

PI 557771 to 557772. *Mentha pulegium* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon
State University, Corvallis, Oregon, United States. Received
January 01, 1983.

PI 557771 to 557772-continued

- PI 557771 **origin:** United States. **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon. **pedigree:** Seedling selection. **local name:** Pennyroyal. **remarks:** Fully fertile and vigorous. Stems shiny, not glaucous. Perennial. Breeding Material. Plant.
- PI 557772 **origin:** Poland. **historical origin:** Netherlands. **origin institute:** Private breeder, Leiden. **pedigree:** Seedling selection from Poland. **local name:** Pennyroyal. **remarks:** Hairy and somewhat glaucous, fully fertile and vigorous. Perennial. Breeding Material. Plant.

PI 557773. *Mentha pulegium* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

origin: United Kingdom. **historical origin:** United States. **origin institute:** Hilltop Herb Farm, Houston, Texas. **local name:** Pennyroyal. Perennial. Plant.

PI 557774. *Mentha pulegium* L. LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany. Received April 21, 1988.

origin: Sweden. **pedigree:** Open pollinated from botanical collection. **local name:** Pennyroyal. Perennial. Cultivated. Seed.

PI 557775. *Mentha pulegium* L. LAMIACEAE Mint

Donated by: Glausi, J., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 14, 1989.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Pennyroyal. **locality:** SW of Eugene in Spencer's Creek creekbed. **latitude:** 44 deg. N. **longitude:** 123 deg. 08 min. W. Perennial. Wild. Plant.

PI 557776. *Mentha pulegium* L. LAMIACEAE Mint

Donated by: Chambers, H.L., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received November 06, 1989.

PI 557776-continued

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Pennyroyal. **collected:** August 07, 1989. **locality:** Lebanon, in roadside ditch near airport. **latitude:** 44 deg. 30 min. N. **longitude:** 122 deg. 50 min. W. Perennial. Wild. Plant.

PI 557777. *Mentha pulegium* L. LAMIACEAE Mint

Donated by: Logee's Greenhouses, Danielson, Connecticut, United States. Received July 05, 1990.

origin: United States. **historical origin:** United Kingdom. **cultivar:** Cunningham Mint. **other id:** Dwarf Pennyroyal. **remarks:** Very aromatic groundcover w/oval, deep green leaves like baby's Tears, tender perennial hardy to 20o. Partial shade. Perennial. Cultivar. Plant.

PI 557778. *Mentha pulegium* L. LAMIACEAE Mint

Donated by: Chambers, H.L., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 06, 1990.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Pennyroyal. **locality:** Clatsop County. **latitude:** 46 deg. N. **longitude:** 123 deg. 40 min. W. **remarks:** Additional information forthcoming Herbarium specimen sent to OSU for identification. Perennial. Wild. Cutting.

PI 557779. *Mentha pulegium* L. LAMIACEAE Mint

Donated by: Luckman, G., University of Tasmania, Hobart, Tasmania, Australia. Received May 31, 1991.

origin: Australia. Perennial. Tissue Culture.

PI 557780. *Mentha pulegium* L. LAMIACEAE Mint

Donated by: Chambers, H.L., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received August 13, 1991.

origin: United States. **pedigree:** Collected from the wild in Oregon. **collected:** August 13, 1991. **locality:** Weedy, open area in Walnut Park NW of Corvallis. Perennial. Wild. Cutting.

PI 557781. *Mentha requienii* Benth. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

origin: United Kingdom. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Seedling selection. **local name:** Corsican Mint, Menthella. **remarks:** Original seedlot donated by A.G. Stuart of Colman Ltd, Norwich, England. Fully fertile. Perennial. Breeding Material. Plant.

PI 557782. *Mentha requienii* Benth. LAMIACEAE Mint

Donated by: Gilly, G., INRA, Antibes, France. Received June 26, 1989.

origin: France. **local name:** Corsican Mint, Menthella. Perennial. Cultivated. Rhizome.

PI 557783. *Mentha* sp. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

origin: UNKNOWN. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. Perennial. Breeding Material. Plant.

PI 557784. *Mentha* sp. LAMIACEAE Mint

Donated by: Veauvy, J.M., Artur Nogueira, Brazil. Received April 05, 1990.

origin: Brazil. **pedigree:** Collected from the wild in Brazil. **collected:** March 1990. **locality:** Near Sao Roque. **latitude:** 05 deg. 30 min. S. **longitude:** 35 deg. 16 min. W. **elevation:** 1100m. Perennial. Wild. Cutting.

PI 557785. *Mentha* sp. LAMIACEAE Mint

Donated by: Thompson, M.M., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. Received July 26, 1990.

origin: USSR. **pedigree:** Collected from the wild in the USSR. **collected:** July 09, 1990. **locality:** Tajikistan Botan. Inst., along an irrigation canal. **remarks:** Grey leaves. Perennial. Wild. Cutting.

PI 557786 to 557865. *Mentha spicata* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557786 **origin:** Brazil. **local name:** Spearmint. **locality:** Campinas. **remarks:** Small terminal flowers, odor not spearmint, menthone or piperitone, thick leaves subject to leaf spot. Perennial. Plant.

PI 557787 **origin:** United States. **pedigree:** Collected from the wild in Michigan. **local name:** Spearmint. **locality:** Greenfield Village, Dearborn. **remarks:** Sterile carvone-odored strain, 2n=36. Perennial. Wild. Plant.

PI 557788 **origin:** United States. **origin institute:** A. M. Todd Co., Kalamazoo, Michigan. **pedigree:** Colchicine-induced 4n strain of 10047. **local name:** Spearmint. **remarks:** Breeding goal: to get carvone into Du 6 rot Seed fertile but male sterile. Perennial. Breeding Material. Plant.

PI 557789 **origin:** Australia. **local name:** Spearmint. **remarks:** MJM: resembles Dearborn spicata 10046. Perennial. Cultivated. Plant.

PI 557790 **origin:** United States. **pedigree:** Uncertain, probably a seedling selection. **local name:** Spearmint. **remarks:** Known as 'Native American' spearmint cultivar, triploid, male sterile and highly seed sterile. Orig. called 2n AS. Perennial. Cultivated. Plant.

PI 557791 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Colchicine-induced tetraploid native spearmint. **local name:** Spearmint. **remarks:** Fully fertile. Perennial. Breeding Material. Plant.

PI 557792 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **local name:** Spearmint. **locality:** Stream through fairgrounds at Kempton PA. **remarks:** MJM: sterile, menthone-odored strain. Perennial. Wild. Plant.

PI 557786 to 557865-continued

- PI 557793 **origin:** United States. **pedigree:** Collected from the wild in Florida. **local name:** Spearmint. **locality:** Near St. Cloud. **remarks:** MJM: Equivalent to Native Spearmint cultivar. Perennial. Wild. Plant.
- PI 557794 **origin:** United Kingdom. **origin institute:** Private breeder, Bedford, England. **local name:** Spearmint. **remarks:** Sterile triploid. Perennial. Breeding Material. Plant.
- PI 557795 **origin:** United States. **pedigree:** Collected from the wild in Washington. **local name:** Spearmint. **locality:** Sunnyside, WA. **remarks:** Fully fertile. Perennial. Wild. Plant.
- PI 557796 **origin:** Australia. **local name:** Spearmint. **remarks:** MJM: Fully fertile. Perennial. Cultivated. Plant.
- PI 557797 **origin:** Australia. **local name:** Spearmint. **remarks:** MJM: Like 10086, fully fertile. Perennial. Cultivated. Plant.
- PI 557798 **origin:** United States. **pedigree:** Collected from the wild in New Mexico. **local name:** Spearmint. **locality:** Near Santa Fe. **remarks:** Fully fertile. Perennial. Wild. Plant.
- PI 557799 **origin:** Philippines. **pedigree:** Collected from the wild in the Philippines. **local name:** Spearmint. **locality:** Near and around the University of Manila. **remarks:** Fully fertile, grows but never flowers in the Philippines. Perennial. Wild. Plant.
- PI 557800 **origin:** United Kingdom. **local name:** Spearmint. **remarks:** Original origin unknown. Has a spearmint odor, fertility uncertain. Perennial. Cultivated. Plant.
- PI 557801 **origin:** Guatemala. **pedigree:** Collected from the wild in Guatemala. **local name:** Spearmint. **locality:** Panajachel, Lake Atitlon. **remarks:** MJM: Typical odor and appearance, leaves very large in winter. Fully fertile, only 5% bad pollen. Perennial. Wild. Plant.
- PI 557802 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **local name:** Spearmint. **remarks:** Vert. wilt resistant. Fully fertile in summer-grown greenhouse plants, winter-grown usually sterile. Perennial. Breeding Material. Plant.

PI 557786 to 557865-continued

- PI 557803 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Tetraploid Sl. **local name:** Spearmint. **remarks:** Strong piperitone-odored selection having the recessive genotype cc cc aa aa. Perennial. Breeding Material. Plant.
- PI 557804 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Cochicine-induced tetraploid from spearmint-odored Sl. **local name:** Spearmint. **remarks:** High wilt resistance. Perennial. Breeding Material. Plant.
- PI 557805 **origin:** United States. **historical origin:** United States. **origin institute:** Vaughn Seed Company, 5300 Katrine Ave., Downer's Grove, Illinois 60515. **local name:** Spearmint. **remarks:** Fertile Spearmint. Perennial. Breeding Material. Plant.
- PI 557806 **origin:** UNKNOWN. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Selection. **local name:** Spearmint. **remarks:** Fully fertile with medium curly leaves. Insects like it very well. Curly spearmint. Perennial. Breeding Material. Plant.
- PI 557807 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **local name:** Spearmint. **remarks:** Glabrous, medium crisp leaves, with spearmint odor. Probably fertile. Perennial. Breeding Material. Plant.
- PI 557808 **origin:** United States. **origin institute:** Weathered Oak Herb Farm, Bradley Hills, Bethesda, Maryland. **local name:** Spearmint. **remarks:** MJM: Glabrous, medium crisp leaves, with a strong menthone odor, probably fertile. Perennial. Breeding Material. Plant.
- PI 557809 **origin:** Brazil. **pedigree:** Collected from the wild in Brazil. **local name:** Spearmint. **locality:** Campinas. **remarks:** MJM: Menthone type, hairy, crisp leaves, has axillary flowers. Could be arvensis x crispa hybrid. Perennial. Wild. Plant.
- PI 557810 **origin:** United Kingdom. **pedigree:** Open pollinated from botanical collection. **local name:** Spearmint. **remarks:** MJM: Fully fertile (2n=48). Spearmint having Cc Aa genotype. Perennial. Cultivated. Plant.
- PI 557811 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** S2 selection of polyploid line 10109. **local name:** Spearmint. **remarks:** Fertile and vigorous, from a seedling progeny which segregate for piperitone. Perennial. Breeding Material. Plant.

PI 557786 to 557865-continued

- PI 557812 **origin:** UNKNOWN. **historical origin:** United States.
origin institute: A.M. Todd, Kalamazoo, Michigan.
pedigree: Selection from European stock. **local name:**
 Spearmint. **remarks:** Fertile spearmint. Perennial.
 Breeding Material. Plant.
- PI 557813 **origin:** Netherlands. **origin institute:** Private breeder,
 Leiden. **local name:** Spearmint. **remarks:** Fertile
 spearmint. Perennial. Breeding Material. Plant.
- PI 557814 **origin:** Italy. **local name:** Spearmint. **remarks:** MJM:
 Very vigorous, fully fertile with a spearmint odor.
 Perennial. Cultivated. Plant.
- PI 557815 **origin:** Italy. **local name:** Spearmint. **remarks:** Male
 sterility of great value. MJM: male sterile, seed
 fertile, hairy, spearmint odor. Perennial. Cultivated.
 Plant.
- PI 557816 **origin:** Italy. **local name:** Spearmint. **remarks:** Fully
 fertile, spearmint odor. Perennial. Cultivated. Plant.
- PI 557817 **origin:** Netherlands. **local name:** Spearmint. **remarks:**
 MJM: fully fertile spearmint. Perennial. Cultivated.
 Plant.
- PI 557818 **origin:** Czechoslovakia. **local name:** Spearmint. **remarks:**
 MJM: Fully fertile spearmint-odored. Perennial.
 Cultivated. Plant.
- PI 557819 **origin:** United States. **local name:** Spearmint. **remarks:**
 Fertile spearmint. Perennial. Cultivated. Plant.
- PI 557820 **origin:** Argentina. **historical origin:** United States.
origin institute: A.M. Todd Co., Kalamazoo, Michigan.
pedigree: Probably a selection from the wild from
 Argentina. **local name:** Spearmint. **remarks:** Has
 menthone, small leaves, and a very loosely flowered
 elongate flower spike. Used in many crosses. Fully
 fertile. Perennial. Breeding Material. Plant.
- PI 557821 **origin:** United States. **pedigree:** Collected from the wild
 in Michigan. **local name:** Spearmint. **locality:** Whites
 Road, Kalamazoo. **remarks:** European origin of this clone
 is unknown. Fully fertile, vigorous spearmint.
 Perennial. Wild. Plant.
- PI 557822 **origin:** Australia. **local name:** Spearmint. **remarks:**
 Originally received from Adelaide as M. suavis, hairy,
 fully fertile. Perennial. Cultivated. Plant.

PI 557786 to 557865-continued

- PI 557823 **origin:** Netherlands. **local name:** Spearmint. **remarks:** Carvone odor, resembles White's Road strain 10133. Perennial. Cultivated. Plant.
- PI 557824 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Spearmint. **collected:** 1968. **remarks:** Hairy, spearmint odor and very sharp leaf teeth. Late maturity. Perennial. Wild. Plant.
- PI 557825 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Spearmint. **collected:** 1968. **remarks:** Glabrous, flat leaves and very vigorous. Perennial. Wild. Plant.
- PI 557826 **origin:** Netherlands. **local name:** Spearmint. **collected:** 1968. **remarks:** Hairy strain having a high pulegone odor. Produces anthers and has 5% bad pollen. Perennial. Cultivated. Plant.
- PI 557827 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Spearmint. **collected:** 1968. **remarks:** Spearmint odor, early-medium maturity. Perennial. Wild. Plant.
- PI 557828 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Spearmint. **collected:** 1968. **remarks:** Semi-crisp leaves, late maturity and spearmint odor. Perennial. Wild. Plant.
- PI 557829 **origin:** USSR. **pedigree:** Collected from the wild in the Soviet Union. **local name:** Spearmint. **collected:** 1968. **locality:** Southern Russia. **remarks:** Glabrous, spearmint and hot odor. Fertile, having 5% bad pollen. Perennial. Wild. Plant.
- PI 557830 **origin:** United States. **historical origin:** United States. **origin institute:** Private breeder, RD #2, Easton, Pennsylvania 18042. **local name:** Spearmint. **remarks:** MJM: glabrous with definite spearmint odor and flat leaves. Perennial. Breeding Material. Plant.
- PI 557831 **origin:** UNKNOWN. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Probably a selection from the wild from southern Europe. **local name:** Spearmint. **remarks:** MJM: hairy type. Fertile. Perennial. Breeding Material. Plant.

PI 557786 to 557865-continued

- PI 557832 **origin:** United States. **pedigree:** Open pollinated from botanical collection. **local name:** Spearmint. **remarks:** MJM: Fertile with definite spearmint odor. Self-pollination, not a hybrid. Glabrous, elongate flower spike. Perennial. Cultivated. Plant.
- PI 557833 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Chance seedling. **local name:** Spearmint. **remarks:** MJM: Glabrous, resembles 10124, strong menthone odor and low pugelone odor. Fertile with 5% bad pollen. Perennial. Breeding Material. Plant.
- PI 557834 **origin:** Switzerland. **origin institute:** Correvon Fils et Cie., 1225 Chene-Bourg, Geneva. **local name:** Menthol Mint. **remarks:** MJM: Not hairy, lanceolate, slightly rolled leaves, long flower spike, rust resistant, low oil yield, 0.2%. Perennial. Breeding Material. Plant.
- PI 557835 **origin:** United States. **local name:** Silver Mint. **remarks:** MJM: Hairy with low menthone and some pugelone. Fertile with only 5% bad pollen. Perennial. Cultivated. Plant.
- PI 557836 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **local name:** Spearmint. **locality:** North side of Jordan Creek, Allentown. **remarks:** MJM: Hairy, with menthone and some pulegone. Fertile with 5% bad pollen. Perennial. Wild. Plant.
- PI 557837 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** S1 selection (S0 parent is 10108). **local name:** Spearmint. **remarks:** Selected and used as a standard high menthone strain, 2n. Perennial. Breeding Material. Plant.
- PI 557838 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** S1 selection (S0 parent is 10095). **local name:** Spearmint. **remarks:** Selected and used as a standard high pugelone strain. Perennial. Breeding Material. Plant.
- PI 557839 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** S1 selection (S0 parent is 10095). **local name:** Spearmint. **remarks:** Has 43% pugelone, selected and used as a tester strain. Fully fertile. Perennial. Breeding Material. Plant.

- PI 557840 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** S1 selection. **local name:** Spearmint. **remarks:** 40% piperitone, used as a tester strain. Fully fertile. Perennial. Breeding Material. Plant.
- PI 557841 **origin:** Italy. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Selection. **local name:** Spearmint. **remarks:** Fertile spicata having slightly wrinkled leaves, spearmint odor. Perennial. Breeding Material. Plant.
- PI 557842 **origin:** France. **pedigree:** Collected from the wild in France. **local name:** Spearmint. **locality:** Rue de Sully, Dijon. **remarks:** MJM: odor spearmint and hot, terminal flowers, fertile, resembles Whites Road spicata 10133. Perennial. Wild. Plant.
- PI 557843 **origin:** United Kingdom. **local name:** Spearmint. **remarks:** MJM: spearmint and hot, terminal flowers, appears fertile. Perennial. Cultivated. Plant.
- PI 557844 **origin:** United Kingdom. **pedigree:** Collected from the wild in Scotland. **local name:** Spearmint. **locality:** Quendale Bay, Shetland, Scotland. **remarks:** MJM: spearmint and hot odor, fertile, terminal flowers, line of hairs on leaf midrib and stem, leaves slightly wrinkled. Perennial. Wild. Plant.
- PI 557845 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN71,Du-17-4) x 10095 (MEN57,2nCr) 4th BC to 10095. **local name:** Spearmint. **remarks:** Male-sterile, hot, menthone M. spicata (crispa) hybrid. Perennial. Breeding Material. Plant.
- PI 557846 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10095 (MEN57,2nCr) 4th BC to 10095. **local name:** Spearmint. **remarks:** Male-sterile, spearmint M. spicata (crispa) hybrid. Perennial. Breeding Material. Plant.
- PI 557847 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10095 (MEN 57,2nCr) 4th BC to 10095. **local name:** Spearmint. **remarks:** Male-sterile, high pulegone & menthone (mp) M. spicata (crispa) hybrid. Perennial. Breeding Material. Plant.

PI 557786 to 557865-continued

- PI 557848 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10095 (MEN 57,2nCr) 4th BC to 10095. **local name:** Spearmint. **remarks:** Male-sterile, medium menthone-pulegone M. spicata (crispa) hybrid. Perennial. Breeding Material. Plant.
- PI 557849 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10095(MEN 57, 2nCr) 3rd BC to 10095. **local name:** Spearmint. **remarks:** Male sterile, menthone-pulegone M. spicata (crispa) hybrid. Perennial. Breeding Material. Plant.
- PI 557850 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN71,Du-17-4) x 10108(MEN 65,2n line 1)4thBC to 10108. **local name:** Spearmint. **remarks:** Male-sterile, spearmint M. spicata hybrid. Perennial. Breeding Material. Plant.
- PI 557851 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125 (MEN 71,Du-17-4) x 10108(MEN 65,2n line 1)3rdBCto10108. **local name:** Spearmint. **remarks:** Male-sterile, menthone-pulegone (mp) M. spicata hybrid. Perennial. Breeding Material. Plant.
- PI 557852 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10157(MEN 97,2nline1Sl)3rdBCto 10157. **local name:** Spearmint. **remarks:** Male-sterile, hot or high menthone M. spicata hybrid. Perennial. Breeding Material. Plant.
- PI 557853 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10158(MEN98,MEN57)3rd BC to 10158. **local name:** Spearmint. **remarks:** Male-sterile, pulegone & menthone M. spicata (crispa) hybrid. Perennial. Breeding Material. Plant.
- PI 557854 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10158(MEN 98,MEN57)3rd BC to 10158. **local name:** Spearmint. **remarks:** Male-sterile M. spicata (crispa) hybrid. Perennial. Breeding Material. Plant.

PI 557786 to 557865-continued

- PI 557855 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10159(S1 of 10095,MEN57)3rdBCto10159. **local name:** Spearmint. **remarks:** Male-sterile, 10159 = high piperitone plant from 10095. *M. spicata* (crispa) hybrid. Perennial. Breeding Material. Plant.
- PI 557856 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10167, 3rd BC to 10167. **local name:** Spearmint. **remarks:** Male-sterile, 10167=fertile, non-hairy spearmint-(see notes) *M. spicata* subs. tomentosa hybrid. Perennial. Breeding Material. Plant.
- PI 557857 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN71,Du-17-4) x 10086(MEN 50)4th BC to 10086. **local name:** Spearmint. **remarks:** Male-sterile. '89 ours not ms (91% good pollen) IDX? *M. spicata* (rugose form)(cordifolia) hybrid. Perennial. Breeding Material. Plant.
- PI 557858 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10088(MEN 51,Thom 198)4thBCto10088. **local name:** Spearmint. **remarks:** Male-sterile *M. spicata* (rugose form)(cordifolia) hybrid. Perennial. Breeding Material. Plant.
- PI 557859 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10090(Thom 201)5th BC to 10090. **local name:** Spearmint. **remarks:** Male-sterile *M. spicata* (rugose form)(cordifolia) hybrid. Perennial. Breeding Material. Plant.
- PI 557860 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10108(MEN 65,2n line 1)4thBCto 10125. **local name:** Spearmint. **remarks:** Fertile *M. spicata* hybrid (both parents *spicata*). Perennial. Breeding Material. Plant.
- PI 557861 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10095(MEN 57,2nCr)4th BC to 10125. **local name:** Spearmint. **remarks:** Fertile, hot, IDX? very crisp *M. spicata* hybrid (both parents *spicata*). Perennial. Breeding Material. Plant.

PI 557786 to 557865-continued

- PI 557862 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10125(MEN 71,Du-17-4) x 10095(MEN 57,2nCr)3rd BC to 10125. **local name:** Spearmint. **remarks:** Fertile, high pulegone M. spicata hybrid (both parents spicata). Perennial. Breeding Material. Plant.
- PI 557863 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** S2 selection of 10109 tetraploid. **local name:** Spearmint. Perennial. Breeding Material. Plant.
- PI 557864 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** S2 selection of 10109 tetraploid. **local name:** Spearmint. Perennial. Breeding Material. Plant.
- PI 557865 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **local name:** Spearmint. Perennial. Breeding Material. Plant.

PI 557866 to 557878. *Mentha spicata* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

- PI 557866 **origin:** United States. **pedigree:** Collected from the wild in California. **local name:** Spearmint. **locality:** Yuba City. Perennial. Wild. Plant.
- PI 557867 **origin:** United States. **origin institute:** USDA/ARS, Corvallis, Oregon. **cultivar:** 79-060-20. **pedigree:** Open-pollinated CMEN 33. **local name:** Spearmint. Perennial. Breeding Material. Plant.
- PI 557868 **origin:** United States. **origin institute:** A. M. Todd Company, Box 711, Kalamazoo, Michigan. **cultivar:** 2n American sp.. **local name:** Spearmint. **remarks:** Hairy native diploid spearmint. Perennial. Breeding Material. Plant.
- PI 557869 **origin:** United States. **origin institute:** A. M. Todd Company, Box 711, Kalamazoo, Michigan. **pedigree:** Selection of native 2n American spearmint (hairy mutant-2). **local name:** Spearmint. **remarks:** Hairy mutant of native spearmint. Perennial. Breeding Material. Plant.

PI 557866 to 557878-continued

- PI 557870 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **local name:** Spearmint. **remarks:** Verticillium wilt-resistant. Fully fertile in summer-grown. Perennial. Breeding Material. Plant.
- PI 557871 **origin:** United States. **local name:** Spearmint. Perennial. Cultivated. Plant.
- PI 557872 **origin:** United States. **origin institute:** Ohio State University, Dept. of Pharmacy, Columbus, Ohio. **pedigree:** Selection of *M. spicata*. **local name:** Spearmint. **remarks:** Spearmint odor, male sterile equivalent to native spearmint. Perennial. Breeding Material. Plant.
- PI 557873 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** 10124 (CMEN 71) x 10088 (CMEN 51), 4th bc to 10088. **local name:** Spearmint. **remarks:** Male sterile. Perennial. Breeding Material. Plant.
- PI 557874 **origin:** United States. **origin institute:** USDA/ARS, Corvallis, Oregon. **cultivar:** 80-125-21. **pedigree:** Seedling selection from open-pollinated CMEN 71 (10125). **local name:** Spearmint. Perennial. Breeding Material. Plant.
- PI 557875 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** 80-126-1. **pedigree:** Seedling selection of open-pollinated CMEN 72. **local name:** Spearmint. Perennial. Breeding Material. Plant.
- PI 557876 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** 80-143-4. **pedigree:** Seedling selection of open-pollinated 10143. **local name:** Spearmint. Perennial. Breeding Material. Plant.
- PI 557877 **origin:** United States. **origin institute:** USDA/ARS, Corvallis, Oregon. **cultivar:** 80-126-3. **pedigree:** Seedling selection from open-pollinated CMEN 72. **local name:** Spearmint. Perennial. Breeding Material. Plant.
- PI 557878 **origin:** United States. **origin institute:** USDA/ARS, Corvallis, Oregon. **cultivar:** 80-126-4. **pedigree:** Seedling selection of open pollinated CMEN 72. **local name:** Spearmint. Perennial. Breeding Material. Plant.

PI 557879 to 557884. *Mentha spicata* L. LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany.
Received April 21, 1988.

PI 557879 to 557884-continued

- PI 557879 **origin:** France. **local name:** Spearmint. Perennial.
Cultivated. Plant.
- PI 557880 **origin:** USSR. **local name:** Spearmint. Perennial.
Cultivated. Plant.
- PI 557881 **origin:** Germany. **pedigree:** Open pollinated from
botanical collection. **local name:** Spearmint. Perennial.
Cultivated. Seed.
- PI 557882 **origin:** Germany. **pedigree:** Open pollinated from
botanical collection. **local name:** Spearmint. Perennial.
Cultivated. Seed.
- PI 557883 **origin:** Germany. **pedigree:** Open pollinated from
botanical collection. **local name:** Spearmint. Perennial.
Cultivated. Seed.
- PI 557884 **origin:** Poland. **pedigree:** Open pollinated from botanical
collection. **local name:** Spearmint. Perennial.
Cultivated. Seed.

PI 557885. *Mentha spicata* L. LAMIACEAE Mint

Donated by: Clark, B.J., Oregon State University, Dept. Crop
Sciences, Corvallis, Oregon, United States. Received March 07,
1990.

origin: United States. **local name:** Spearmint.
Perennial. Breeding Material. Plant.

PI 557886. *Mentha spicata* L. LAMIACEAE Mint

Donated by: Thompson, M.M., Oregon State University, Dept.
Horticulture, Corvallis, Oregon, United States. Received July 26,
1990.

origin: USSR. **pedigree:** Collected from the wild in the
USSR. **collected:** July 09, 1990. **locality:** Tajikistan
Botan. Inst., along an irrigation canal. **remarks:**
Immature to 0.4m tall, green leaves. Perennial. Wild.
Cutting.

PI 557887. *Mentha spicata* L. LAMIACEAE Mint

Donated by: Sturtz, G., Albany, Oregon, United States. Received
July 18, 1991.

PI 557887-continued

origin: United States. **origin institute:** Oakville Herb Farm, 31787 Peoria Road, Albany, Oregon 97321. **other id:** Pending. **group:** PEND. **remarks:** Unusual chemotype, a high-menthone clone with no objection-able components, well balanced. Tall, very branched, crisp. Perennial. Breeding Material. Cutting.

PI 557888. *Mentha spicata* subsp. *tomentosa* (Briq.) R. Harley LAMIACEAE
Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

origin: Turkey. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Seedling selection from seedlot collected in Turkey. **local name:** Spearmint. **locality:** Istanbul. **remarks:** Carvone odor but oil composition not studied and may be somewhat different. Perennial. Breeding Material. Plant.

PI 557889. *Mentha spicata* subsp. *tomentosa* (Briq.) R. Harley LAMIACEAE
Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

origin: United States. **origin institute:** USDA/ARS, Corvallis, Oregon. **cultivar:** 80-166-4. **pedigree:** Seedling selection of open pollinated CMEN 105. **local name:** Spearmint. Perennial. Breeding Material. Plant.

PI 557890. *Mentha spicata* subsp. *tomentosa* (Briq.) R. Harley LAMIACEAE
Mint

Donated by: Gilly, G., INRA, Antibes, France. Received June 26, 1989.

origin: Germany. **pedigree:** Seedling selection from OP seedlot from Berlin. **local name:** Spearmint. **remarks:** Received as *M. microphylla*. Perennial. Cultivated. Plant.

PI 557891 to 557902. *Mentha suaveolens* Ehrh. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

- PI 557891 **origin:** UNKNOWN. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Seedling selection. **remarks:** Usually male sterile and poorly seed-fertile but can be crossed to other strains. Selected for yellow-green color. Perennial. Breeding Material. Plant.
- PI 557892 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Unselfed 4n strain of 2n rotundifolia from colchicine trt. **remarks:** Fully fertile. Perennial. Breeding Material. Plant.
- PI 557893 **origin:** France. **pedigree:** Collected from the wild in France. **locality:** Near Colmar. **remarks:** Fully fertile. Perennial. Wild. Plant.
- PI 557894 **origin:** Netherlands. **origin institute:** Private breeder, Leiden. **remarks:** Fully fertile, has been used in crosses more often than any other. Perennial. Breeding Material. Plant.
- PI 557895 **origin:** Netherlands. **origin institute:** Private breeder, Leiden. **remarks:** Fully fertile. Perennial. Breeding Material. Plant.
- PI 557896 **origin:** Argentina. **origin institute:** Private breeder, Santa Fe. **remarks:** Male sterile, might have 2n=48 chromosome number (x=12). Perennial. Breeding Material. Plant.
- PI 557897 **origin:** Turkey. **historical origin:** Netherlands. **origin institute:** Private breeder, Leiden. **pedigree:** Seedling selection from mixed Turkish seedlot. **remarks:** Original seedlot mixed *M. tomentosa* and *rotundifolia* from Istanbul. Sometimes fertile when conditions are ideal. Perennial. Breeding Material. Plant.
- PI 557898 **origin:** UNKNOWN. **historical origin:** United Kingdom. **pedigree:** Seedling selection. **remarks:** Original source in Southern Europe Fully fertile. Perennial. Breeding Material. Plant.
- PI 557899 **origin:** Bulgaria. **historical origin:** United States. **origin institute:** USDA/ARS, BARC, Beltsville, Maryland. **remarks:** Fully fertile. Perennial. Breeding Material. Plant.

PI 557891 to 557902-continued

- PI 557900 **origin:** Brazil. **pedigree:** Collected as *M. viridis* in Brazil. **locality:** Campinas. **remarks:** MJM: *M. rotundifolia* with terminal flowers, typical *rotundifolia* odor. Perennial. Plant.
- PI 557901 **origin:** Brazil. **locality:** Campinas. **remarks:** MJM: Typical *M. rotundifolia* odor and appearance, terminal flowers. Perennial. Plant.
- PI 557902 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10020 (MEN 12,Tom rot) x 10017 (MEN 9,Du 6 rot), 6th BC10017. **remarks:** Male sterile Both parents-*M. suaveolens* (*rotundifolia*). Perennial. Breeding Material. Plant.

PI 557903 to 557906. *Mentha suaveolens* Ehrh. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

- PI 557903 **origin:** United States. **origin institute:** Northrup King Seeds, Minneapolis, Minnesota. **local name:** Curled Mint. **remarks:** Fully fertile. Perennial. Breeding Material. Plant.
- PI 557904 **origin:** United States. **origin institute:** A. M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10020(MEN 12,Tom rot) x 10017(MEN 9,Du 6 rot)4thBC to 10017. **remarks:** Male sterile *M. suaveolens* (*rotundifolia*) hybrid. Perennial. Breeding Material. Plant.
- PI 557905 **origin:** United States. **origin institute:** A.M. Todd Co., Box 711, Kalamazoo, Michigan. **pedigree:** 10020(MEN 12,Tom.rot) x 10017(MEN 9,Du 6 rot) 6th BC to10017. **remarks:** Male sterile *M. suaveolens* (*rotundifolia*) hybrid. Perennial. Breeding Material. Plant.
- PI 557906 **origin:** United States. **origin institute:** USDA/ARS, Corvallis, Oregon. **cultivar:** 80-023-3. **pedigree:** Seedling selection from open pollinated CMEN 14. Perennial. Breeding Material. Plant.

PI 557907 to 557908. *Mentha suaveolens* Ehrh. LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany. Received April 21, 1988.

- PI 557907 **origin:** France. **pedigree:** Open pollinated from botanical collection. Perennial. Cultivated. Seed.

PI 557907 to 557908-continued

PI 557908 **origin:** Portugal. **pedigree:** Open pollinated from botanical collection. Perennial. Cultivated. Seed.

PI 557909 to 557910. *Mentha suaveolens* Ehrh. LAMIACEAE Mint

Donated by: Robbins, P., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received February 15, 1989.

PI 557909 **origin:** France. **historical origin:** United States. **origin institute:** USDA/ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection of seedlot CMEN 538. Perennial. Breeding Material. Plant.

PI 557910 **origin:** Portugal. **historical origin:** United States. **origin institute:** USDA/ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon. **pedigree:** Seedling selection from seedlot CMEN 543. Perennial. Breeding Material. Plant.

PI 557911. *Mentha suaveolens* Ehrh. LAMIACEAE Mint

Donated by: Montarone, M., INRA, France. Received October 27, 1989.

origin: France. **origin institute:** INRA, Station Agronomie et de Phys. Vegetale, Antibes 06606. Perennial. Breeding Material. Plant.

PI 557912. *Mentha suaveolens* Ehrh. LAMIACEAE Mint

Donated by: Gilbert, J., Northwoods Nurseries, Mollala, Oregon, United States. Received May 21, 1990.

origin: United States. **origin institute:** Northwoods Nursery, Mollala, Oregon. **cultivar:** Pineapple Mint. **pedigree:** Selection or mutation of cv. Pineapple Mint. **remarks:** This clone has very whitened, variegated foliage, probably genetic. Perennial. Breeding Material. Cutting.

PI 557913 to 557914. *Mentha x dalmatica* Tausch LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557913 to 557914-continued

PI 557913 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **collected:** 1968. **locality:** Sukhumi, inland from the Black Sea beach. **remarks:** Hairy and male sterile. Perennial. Wild. Plant.

PI 557914 **origin:** USSR. **pedigree:** Collected from the wild in the USSR. **collected:** 1968. **locality:** Sukhumi, from fill at the edge of town. **remarks:** Not very fertile but may sometimes have red anthers. Perennial. Wild. Plant.

PI 557915. *Mentha x dalmatica* Tausch LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany. Received April 21, 1988.

origin: Germany. Perennial. Cultivated. Plant.

PI 557916 to 557917. *Mentha x dumetorum* Schultes LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557916 **origin:** Netherlands. **pedigree:** Unknown, from Leiden Botanical Garden. **remarks:** MJM: highly sterile. Originally received from Hegnauer as *silvestris*. Perennial. Cultivated. Plant.

PI 557917 **origin:** France. **remarks:** MJM: no menthol or menthone, not high in pugelone, male sterile, terminal flowers, rudimentary anthers. Perennial. Cultivated. Plant.

PI 557918 to 557924. *Mentha x gracilis* Sole LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557918 **origin:** UNKNOWN. **historical origin:** United States. **origin institute:** USDA/ARS, Beltsville, Maryland. **pedigree:** Probably a selection from European stock. **remarks:** This has been the standard strain used in genetic work. Has never developed anthers in 24 years in either gh or field. Perennial. Breeding Material. Plant.

PI 557918 to 557924-continued

- PI 557919 **origin:** UNKNOWN. **historical origin:** United States.
origin institute: A.M. Todd Co., Kalamazoo, Michigan.
pedigree: Probably a selection from European stock
(strain 2). **remarks:** Male sterile and typical gentilis
odor. Perennial. Breeding Material. Plant.
- PI 557920 **origin:** Netherlands. **remarks:** Typical gentilis odor and
male sterile. Perennial. Breeding Material. Plant.
- PI 557921 **origin:** United States. **origin institute:** The Herb
Company, Baraboo, Wisconsin. **local name:** Anise Mint.
remarks: Male sterile strain with a gentilis odor but may
be slightly different in oil composition. Perennial.
Breeding Material. Plant.
- PI 557922 **origin:** United States. **cultivar:** Double Mint. **remarks:**
MJM: gentilis in general appearance, very red stemmed,
does not have typical gentilis odor and is primarily
menthone. Perennial. Cultivated. Plant.
- PI 557923 **origin:** Switzerland. **remarks:** MJM: normal appearance and
odor, not hairy. Perennial. Cultivated. Plant.
- PI 557924 **origin:** United States. **origin institute:** A.M. Todd Co.,
Kalamazoo, Michigan. **pedigree:** Selection from cultivar
Scotch. **local name:** Scotch Spearmint. **remarks:** Often
male sterile in field, highly seed and pollen sterile,
selfing can give a fertile polyploid. Perennial.
Breeding Material. Plant.

PI 557925 to 557933. *Mentha x gracilis* Sole LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon
State University, Corvallis, Oregon, United States. Received July
07, 1983.

- PI 557925 **origin:** United States. **origin institute:** A.M. Todd Co.,
Kalamazoo, Michigan. **cultivar:** Scotch sel. 227-8-73-3.
pedigree: Selection of irradiated Scotch. Perennial.
Breeding Material. Plant.
- PI 557926 **origin:** United States. **origin institute:** A.M. Todd Co.,
Kalamazoo, Michigan. **cultivar:** Scotch sel. 213-10-74.
pedigree: Selection of irradiated Scotch. Perennial.
Breeding Material. Plant.
- PI 557927 **origin:** United States. **origin institute:** A.M. Todd Co.,
Kalamazoo, Michigan. **cultivar:** Scotch sel. 48-10-73-4.
pedigree: Selection of irradiated Scotch (48-10-73-4).
Perennial. Breeding Material. Plant.

PI 557925 to 557933-continued

- PI 557928 **origin:** UNKNOWN. **cultivar:** 80-334C. **remarks:** Originally received as 80-334C Sel. 92, but it is incorrect Retained in collection because of virus-type mottling. Perennial. Plant.
- PI 557929 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Scotch sel. 592-10-74. **pedigree:** Selection 592-10-74 of Irradiated Scotch. Perennial. Breeding Material. Plant.
- PI 557930 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Scotch sel. 55-10-74. **pedigree:** Selection of irradiated Scotch (55-10-74). Perennial. Breeding Material. Plant.
- PI 557931 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Scotch sel. 118-12-73. **pedigree:** Selection of Irradiated Scotch. Perennial. Breeding Material. Plant.
- PI 557932 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Scotch sel. 147-10-73. **pedigree:** Selection of irradiated Scotch. Perennial. Breeding Material. Plant.
- PI 557933 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Scotch sel. 199-10-14-1. **pedigree:** Selection of irradiated Scotch. Perennial. Breeding Material. Plant.

PI 557934. *Mentha x gracilis* Sole LAMIACEAE Mint

Donated by: Bachmann, K., Hugo de Vries Laboratory, Amsterdam, Netherlands. Received September 26, 1989.

origin: Netherlands. **pedigree:** Collected from the wild in the Netherlands. **collected:** September 13, 1989.
locality: Garden weed in Muiderberg, Badlaan 42.
latitude: 52 deg. 00 min. N. **longitude:** 05 deg. 30 min. E. **remarks:** Spontaneous appearance in home garden. Perennial. Wild. Cutting.

PI 557935. *Mentha x gracilis* Sole LAMIACEAE Mint

Donated by: Clark, B.J., Oregon State University, Dept. Crop Sciences, Corvallis, Oregon, United States. Received March 07, 1990.

origin: United States. **cultivar:** Scotch Spearmint. Perennial. Breeding Material. Plant.

PI 557936. *Mentha x maximiliana* F. Schultz LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

origin: United Kingdom. **pedigree:** Collected from the wild in England. **locality:** County of Cornwall. **remarks:** MJM: terminal capitate, male sterile flower heads, leaves aquatica-like, also in growth habit, bland odor. Perennial. Wild. Plant.

PI 557937 to 557955. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557937 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Mitcham. **pedigree:** Possibly a selection from the wild. **local name:** Peppermint. Perennial. Cultivar. Plant.

PI 557938 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Tetraploid strain of cultivar Mitcham. **local name:** Peppermint. **remarks:** Fully fertile given a sufficiently long photoperiod, low oil yield. No plant breeding value. Perennial. Breeding Material. Plant.

PI 557939 **origin:** United States. **historical origin:** United States. **cultivar:** White Peppermint. **local name:** Peppermint. **remarks:** More stiff-stemmed and less floppy than the parent cultivar, poor oil quality. Perennial. Cultivar. Plant.

PI 557940 **origin:** Netherlands. **local name:** Peppermint. **remarks:** Non-Mitcham strain, slightly glaucous. Perennial. Breeding Material. Plant.

PI 557941 **origin:** United States. **pedigree:** Collected from the wild in New York. **local name:** Peppermint. **locality:** About 1/2mi below Upper Falls, Endfield Glen, Ithaca. **remarks:** Non-Mitcham. Native origin is Europe. Perennial. Wild. Plant.

PI 557942 **origin:** United States. **origin institute:** Oregon State University, Corvallis, Oregon. **local name:** Peppermint. **remarks:** Non-Mitcham, somewhat glaucous strain. Perennial. Breeding Material. Plant.

PI 557937 to 557955-continued

- PI 557943 **origin:** United States. **origin institute:** Oregon State University, Corvallis, Oregon. **local name:** Peppermint. **remarks:** Non-Mitcham strain. Perennial. Breeding Material. Plant.
- PI 557944 **origin:** United States. **pedigree:** Collected from the wild in Michigan. **local name:** Peppermint. **locality:** Along a stream in Vicksburg. **remarks:** Non-Mitcham strain. Perennial. Wild. Plant.
- PI 557945 **origin:** United States. **pedigree:** Collected from the wild in Michigan. **local name:** Peppermint. **locality:** Kewanee Peninsula, Upper Michigan. **remarks:** Non-Mitcham strain. Perennial. Wild. Plant.
- PI 557946 **origin:** United States. **pedigree:** Collected from the wild in New Jersey. **local name:** Peppermint. **locality:** Near a stream through Willowood, Gladstone, NJ. **remarks:** MJM: flat leaved, glaucous and weak odored. Terminal flowers and male sterile, weak peppermint odor. Perennial. Wild. Plant.
- PI 557947 **origin:** United States. **cultivar:** Mitcham. **local name:** Peppermint. **locality:** Kutztown, PA. **remarks:** MJM: Normal appearance and odor, could be a Mitcham CV. Strong peppermint odor, Few anthers, 60% bad pollen. Perennial. Cultivated. Plant.
- PI 557948 **origin:** United States. **local name:** Peppermint. **remarks:** MJM: glaucous, flat, large leaves with weak peppermint odor, terminal flowers, male sterile. Perennial. Cultivated. Plant.
- PI 557949 **origin:** Netherlands. **local name:** Peppermint. **remarks:** Hairy, with peppermint odor and terminal flowers, 50% bad pollen. Perennial. Cultivated. Plant.
- PI 557950 **origin:** United States. **origin institute:** University of New Hampshire, Durham, New Hampshire. **pedigree:** Uncertain, selection from cultivar Mitcham or black pepperm. **local name:** Peppermint. **remarks:** MJM: resembles wild-type piperita with flat leaves, terminal flowers, male sterile, normal peppermint odor. Perennial. Breeding Material. Plant.
- PI 557951 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Peppermint. **locality:** Alfrick, Worcester. **remarks:** MJM: terminal flowers, male sterile, stem very hairy but leaves less so, menthone & some menthol, strange odor. 6x?. Perennial. Wild. Plant.

PI 557937 to 557955-continued

- PI 557952 **origin:** Brazil. **local name:** Peppermint. **remarks:** Very vigorous with a lavender odor due to linalool and linalyl acetate, male sterile, somewhat seed sterile. Perennial. Breeding Material. Plant.
- PI 557953 **origin:** Mexico. **historical origin:** Brazil. **pedigree:** Possibly originally selected from the wild in Mexico (?). **local name:** Peppermint. **remarks:** MJM: Odor weak spearmint, stem large, slightly hairy, leaves very shiny, not hairy, large and thick, +/- 6x chromosome #. Perennial. Breeding Material. Plant.
- PI 557954 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Todd's Mitcham. **pedigree:** Selection No. 58. **local name:** Peppermint. **other id:** CV-1. **source:** Crop Sci. 12(1):128 1972. **group:** CSR-PEPPERMINT. **remarks:** Released Jan 6, 1972. Verticillium wilt resistant. Perennial. Cultivar. Plant.
- PI 557955 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Murray Mitcham. **pedigree:** Sel. #3202. **local name:** Peppermint. **other id:** CV-2. **source:** Crop Sci. 17(1):188 1977. **group:** CSR-PEPPERMINT. **remarks:** High verticillium wilt resistance. Perennial. Cultivar. Plant.

PI 557956 to 557965. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

- PI 557956 **origin:** United States. **local name:** Blackstem Peppermint. Perennial. Cultivated. Plant.
- PI 557957 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** 79-337C. **pedigree:** Selection 1421, clonal start from 10377. **local name:** Peppermint. **remarks:** Moderate Verticillium resistance, higher yield but oil quality less desirable. Perennial. Breeding Material. Plant.
- PI 557958 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Sel. 1265 (2n) of Irradiated Mitcham. **local name:** Peppermint. **remarks:** High resistance to Verticillium wilt but greatly dwarfed. Perennial. Breeding Material. Plant.

PI 557956 to 557965-continued

- PI 557959 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Selection 92 of Irradiated Mitcham. **local name:** Peppermint. **remarks:** High Verticillium resistance. Perennial. Breeding Material. Plant.
- PI 557960 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** 80-341C. **pedigree:** Selection 62-15 of Irradiated Mitcham. **local name:** Peppermint. **remarks:** Clonal start, 1980. Slight Verticillium resistance. Perennial. Breeding Material. Plant.
- PI 557961 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Mitcham sel. 80-345C. **pedigree:** Selection 31 of irradiated Mitcham (80-345C). **local name:** Peppermint. **remarks:** Slight Verticillium resistance, sharp teeth, glaucous. Perennial. Breeding Material. Plant.
- PI 557962 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Mitcham sel. 80-342C. **pedigree:** Selection 62-18 of Irradiated Mitcham. **local name:** Peppermint. Perennial. Breeding Material. Plant.
- PI 557963 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Mitcham sel. 80-337C. **pedigree:** Selection of Irradiated Mitcham. **local name:** Peppermint. **remarks:** Moderate Verticillium resistance. Higher yield but oil quality less desirable. Perennial. Breeding Material. Plant.
- PI 557964 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **cultivar:** Mitcham sel. 80-338C. **pedigree:** Selection 2236 of Irradiated Mitcham. **local name:** Peppermint. **remarks:** High Verticillium resistance but oil quality less desirable. Perennial. Breeding Material. Plant.
- PI 557965 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **local name:** Peppermint. Perennial. Breeding Material. Plant.

PI 557966 to 557967. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Reckin, J., Experimental Garden, Werbellin, Germany.
Received April 21, 1988.

- PI 557966 **origin:** Germany. **local name:** Peppermint. Perennial. Cultivated. Plant.

PI 557966 to 557967-continued

PI 557967 **origin:** Germany. **local name:** Peppermint. Perennial.
Cultivated. Plant.

PI 557968. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Postman, M., Maryland, United States. Received March 08, 1989.

origin: United States. **historical origin:** United States.
origin institute: Private Nursery, Pennsylvania.
cultivar: Chocolate Mint. **local name:** Peppermint.
remarks: Brownish-red stems. Perennial. Cultivar.
Plant.

PI 557969. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Glausi, J., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 14, 1989.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Peppermint. **locality:** SW of Eugene growing submerged in shallow pond. **latitude:** 44 deg. N. **longitude:** 123 deg. 08 min. W. Perennial. Wild. Plant.

PI 557970. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Hummer, K.E., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received June 19, 1989.

origin: United States. **pedigree:** Collected from the wild in Oregon. **local name:** Peppermint. **collected:** June 17, 1989. **locality:** Dollar, OR, near Calapooia River. **latitude:** 44 deg. N. **longitude:** 123 deg. W. Perennial. Wild. Plant.

PI 557971 to 557973. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Clark, B.J., Oregon State University, Dept. Crop Sciences, Corvallis, Oregon, United States. Received March 07, 1990.

PI 557971 **origin:** United States. **cultivar:** Black Mitcham Peppermint. **local name:** Peppermint. Perennial. Cultivar. Plant.

PI 557971 to 557973-continued

PI 557972 **origin:** United States. **cultivar:** Murray Mitcham
Peppermint. **local name:** Peppermint. Perennial.
Cultivar. Plant.

PI 557973 **origin:** United States. **cultivar:** Todd Mitcham
Peppermint. **local name:** Peppermint. Perennial.
Cultivar. Plant.

PI 557974. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Logee's Greenhouses, Danielson, Connecticut, United
States. Received July 05, 1990.

origin: United States. **origin institute:** Logee's
Greenhouses, 141 North Street, Danielson, Connecticut
06239. **pedigree:** Uncertain, possibly a sport or
mutation. **remarks:** Cream mottling against deep green
foliage, deep, crisp peppermint flavor. Shade and
partial shade perennial. Perennial. Cultivated. Plant.

PI 557975. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Chambers, H.L., USDA/ARS/NCGR-Corvallis, 33447 Peoria
Road, Corvallis, Oregon, United States. Received October 11, 1990.

origin: United States. **pedigree:** Collected from the wild
in Oregon. **local name:** Peppermint. **collected:** October
07, 1990. **locality:** Jackson Co., creek bed of Wolf Creek
at Wolf Creek Co. Park. **latitude:** 42 deg. 50 min. N.
longitude: 122 deg. 30 min. W. **remarks:** May be escape
from cultivated material. Perennial. Wild. Cutting.

PI 557976 to 557983. *Mentha x piperita* L. LAMIACEAE Mint

Donated by: Conservatoire Nat'l des PMAI, Milly-la-Forêt, France.
Received October 01, 1991.

PI 557976 **origin:** Hungary. **historical origin:** France. **origin
institute:** Conservatoire Nat'le des PMAI, Milly-la-Forêt.
cultivar: Hongrie. **pedigree:** Uncertain, probably a
selection from the wild. **remarks:** Origin: Hungary.
Perennial. Breeding Material. Cutting.

PI 557977 **origin:** Italy. **historical origin:** France. **origin
institute:** INRA, Antibes. **cultivar:** 49 Pessione.
pedigree: Uncertain, probably a selection from the wild.
remarks: Origin: Pessione, Italy. Perennial. Breeding
Material. Cutting.

PI 557976 to 557983-continued

- PI 557978 **origin:** France. **origin institute:** Conservatoire Nat'l des PMAI, Milly-la-Forêt. **cultivar:** Auvergne. **pedigree:** Uncertain, probably a selection from the wild. **remarks:** Origin: Clermont-Ferrand, France. Perennial. Breeding Material. Cutting.
- PI 557979 **origin:** France. **origin institute:** INRA, Antibes. **cultivar:** 42 Savoie. **pedigree:** Uncertain, probably a selection from the wild. **remarks:** Origin: Savoie, France. Perennial. Breeding Material. Cutting.
- PI 557980 **origin:** Germany. **historical origin:** France. **origin institute:** INRA, Antibes. **cultivar:** 104 Giessen. **pedigree:** Uncertain, probably a selection from the wild. **remarks:** Origin: Giessen, Germany. Perennial. Breeding Material. Cutting.
- PI 557981 **origin:** Bulgaria. **historical origin:** France. **origin institute:** INRA, Antibes. **cultivar:** 39 Digne-Bulgarie. **pedigree:** Uncertain, probably a selection from the wild. **remarks:** Origin: Bulgaria. Perennial. Breeding Material. Cutting.
- PI 557982 **origin:** USSR. **cultivar:** Krasnodarskaya. **pedigree:** Selection from BRNO botanical garden, Czechoslovakia. **remarks:** Origin: Kishinev, USSR. Perennial. Cultivated. Cutting.
- PI 557983 **origin:** USSR. **cultivar:** Kubanskaya. **pedigree:** Selection from BRNO botanical garden, Czechoslovakia. **remarks:** Origin: Kishinev, USSR. Perennial. Cultivated. Cutting.

PI 557984. *Mentha x piperita* nsubsp. *pyramidalis* (Ten.) R. Harley
LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

origin: Italy. **pedigree:** Collected from the wild in Italy. **locality:** Pisa. Perennial. Wild. Plant.

PI 557985 to 557996. *Mentha x piperita* subsp. *citrata* (Ehrh.) Briq.
LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 557985 to 557996-continued

- PI 557985 **origin:** UNKNOWN. **historical origin:** United States.
origin institute: A.M. Todd Co., Kalamazoo, Michigan.
pedigree: Probably a selection from European stock (strain 1). **local name:** Bergamot Mint, Lemon Mint.
remarks: Short, erect, with leathery, round leaves, not vigorous, short stolons. Genotype Ilili2i2. Immune to rust. Perennial. Breeding Material. Plant.
- PI 557986 **origin:** United States. **historical origin:** United States.
origin institute: A.M. Todd Co., Kalamazoo, Michigan.
pedigree: Selection from Hermiston, Oregon (strain 2).
local name: Bergamot Mint, Lemon Mint. **remarks:** Male sterile but seed fertile. Genotype Ilili2i2. Does not get leaf spot. Odor camphoraceous, also linalool. Perennial. Breeding Material. Plant.
- PI 557987 **origin:** Bulgaria. **pedigree:** Collected in Sofia, Bulgaria. **local name:** Bergamot Mint, Lemon Mint.
remarks: Very tall and vigorous, very large glaucous leaves and reddish stem. Male sterile, seed fertile. Ilili2i2. Perennial. Cultivated. Plant.
- PI 557988 **origin:** UNKNOWN. **historical origin:** United States.
origin institute: Oregon State University, Corvallis, Oregon. **local name:** Bergamot Mint, Lemon Mint. **remarks:** Strain 4, erect, almost green stemmed, vigorous, nearly white flowers, male sterile, seed fertile, geno. Ilili2i2. Perennial. Breeding Material. Plant.
- PI 557989 **origin:** United States. **pedigree:** Collected from the wild in Michigan. **local name:** Bergamot Mint, Lemon Mint.
locality: In Vicksburg in park along a stream. **remarks:** Strain 5, nearly green stemmed, erect, vigorous with nearly white flowers, male sterile, seed fertile, Ilili2i2. Perennial. Wild. Plant.
- PI 557990 **origin:** United States. **pedigree:** Collected from the wild in Michigan (strain 6). **local name:** Bergamot Mint, Lemon Mint. **locality:** Allegan County, on the shore of a lake.
remarks: Green stemmed, erect, vigorous, with nearly white flowers male sterile but seed fertile, Ilili2i2. Perennial. Wild. Plant.
- PI 557991 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Bergamot Mint, Lemon Mint.
remarks: Large leaves, odor not camphoraceous, male sterile but seed fertile, Ilili2i2. Perennial. Wild. Plant.

PI 557985 to 557996-continued

- PI 557992 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **local name:** Bergamot Mint, Lemon Mint. **remarks:** Similar to CMEN 122 but a different strain. Male sterile, seed fertile, genotype 1l1l12i2. Perennial. Wild. Plant.
- PI 557993 **origin:** United States. **cultivar:** Eau de Cologne. **local name:** Bergamot Mint, Lemon Mint. **remarks:** MJM: citrata odor, large leaves, male sterile, seed fertile, camphoraceous odor, complex genotype, unusual strain. Perennial. Cultivated. Plant.
- PI 557994 **origin:** UNKNOWN. **historical origin:** Brazil. **pedigree:** Uncertain, probably a selection from European stock. **local name:** Bergamot Mint, Lemon Mint. **remarks:** Normal citrata odor, not camphoraceous, genotype may be 1l1l12i2. Perennial. Breeding Material. Plant.
- PI 557995 **origin:** Switzerland. **local name:** Bergamot Mint, Lemon Mint. **remarks:** MJM: strong citrata odor, probably an octoploid male sterile, not studied in crosses. Perennial. Cultivated. Plant.
- PI 557996 **origin:** United States. **local name:** Bergamot Mint, Lemon Mint. **remarks:** MJM: citrata odor, resembles diploid 10185. May be 6x or 8x. Perennial. Cultivated. Plant.

PI 557997. *Mentha x piperita* subsp. *citrata* (Ehrh.) Briq. LAMIACEAE
Mint

Donated by: Owen Farms, Ripley, Tennessee, United States. Received March 11, 1991.

origin: United States. **origin institute:** Owen Farms, Rt. 3 Box 158-A, Ripley, Tennessee 38063. **cultivar:** Orange Mint. Perennial. Cultivar. Plant.

PI 557998 to 558000. *Mentha x rotundifolia* (L.) Hudson LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

- PI 557998 **origin:** United States. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **local name:** Applemint. **remarks:** Original source Merry Gardens, Camden, Maine. MJM: resem. *Dearborn spicata* (10046), 97% aborted pollen, prob. 3n. Perennial. Breeding Material. Plant.

PI 557998 to 558000-continued

PI 557999 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **local name:** Applemint. **locality:** Along a stream just off Rt. 309, Coopersburg, PA. **remarks:** MJM: Spearmint odor, large long niliaca-like leaves with short, less branched hairy flower spike. Sterile. Perennial. Wild. Plant.

PI 558000 **origin:** United States. **origin institute:** University of California, Berkeley, California. **local name:** Applemint. **remarks:** MJM: leaves veiny, fertile, 100% anthers, 15-20% bad pollen, very hot odor which could be piperitone w/ a smoky element. Perennial. Breeding Material. Plant.

PI 558001 to 558003. *Mentha x smithiana* R. A. Graham LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 558001 **origin:** United Kingdom. **remarks:** Supposedly a spicata-arvensis by aquatica hybrid with 120 chromosomes. Has carvone odor and axillary flower spikes. Perennial. Cultivated. Plant.

PI 558002 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **remarks:** MJM: Axillary flowers, ovate leaves, very sparse hairs, appears fertile, weak menthone odor, not menthol, 8x+ chrom. Perennial. Wild. Plant.

PI 558003 **origin:** United Kingdom. **pedigree:** Collected from the wild in England. **locality:** Bristol. **remarks:** MJM: axillary flowers, fertile, flowers very large, 8x? candy sweet nauseating odor, oil constituents unknown. Perennial. Wild. Plant.

PI 558004 to 558005. *Mentha x verticillata* L. LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 558004 **origin:** Netherlands. **remarks:** Axillary flowers. Perennial. Breeding Material. Plant.

PI 558005 **origin:** France. **pedigree:** Collected from the wild in France. **locality:** Canal de Bourgogne, Dijon. **remarks:** MJM: hairy like aquatica and has ovate, flat leaves with dentate margins, axillary flowers, male sterile. Perennial. Wild. Plant.

PI 558006 to 558008. *Mentha x villosa* Hudson LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 558006 **origin:** UNKNOWN. **historical origin:** United States. **origin institute:** USDA/ARS, BARC, Beltsville, Maryland. **pedigree:** Uncertain, possibly a seedling selection. **remarks:** Sterile, glaucous leaves. Perennial. Breeding Material. Plant.

PI 558007 **origin:** Netherlands. **origin institute:** Private breeder, Leiden. **pedigree:** Uncertain, possibly a seedling selection. **remarks:** MJM: Sterile, spearmint odor. Perennial. Breeding Material. Plant.

PI 558008 **origin:** Netherlands. **remarks:** Original source: Amsterdam Botanical Gardens Sterile, 60% bad pollen. Perennial. Cultivated. Plant.

PI 558009 to 558015. *Mentha x villosa* var. *alopecuroides* (Hull) Briq.
LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1983.

PI 558009 **origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Colchicine-induced tetraploid. **remarks:** Fully fertile but very poor vigor, replaced with S1 strain 61-1320-3. Perennial. Breeding Material. Plant.

PI 558010 **origin:** United States. **pedigree:** Collected from the wild in Michigan. **collected:** 1947. **locality:** Along streambanks of Portage Creek 1.5 mi from Vicksburg. **remarks:** Sterile. Perennial. Wild. Plant.

PI 558011 **origin:** United States. **pedigree:** Collected from the wild in Pennsylvania. **locality:** W. side of North Branch Creek, N. of Dixon St., Allentown. **remarks:** MJM: Weak spearmint odor, sterile, 95% bad pollen. Flower spikes more slender than other strains. Perennial. Wild. Plant.

PI 558012 **origin:** United States. **remarks:** MJM: Sterile, 95% bad pollen, spearmint odor. Perennial. Cultivated. Plant.

PI 558013 **origin:** United States. **remarks:** MJM: spearmint odor, sterile, 95% bad pollen. Perennial. Cultivated. Plant.

PI 558009 to 558015-continued

PI 558014 **origin:** United States. **pedigree:** Collected from the wild in Wisconsin. **locality:** Carl Hull Farm, Fond du Lac, Wisconsin. **remarks:** Originally, a weed in a peppermint field Spearmint odor, sterile. Perennial. Wild. Plant.

PI 558015 **origin:** United States. **collected:** 1957. **remarks:** Spearmint odor, sterile. Perennial. Cultivated. Plant.

PI 558016 to 558017. *Mentha x villosa* var. *alopecuroides* (Hull) Briq.
LAMIACEAE Mint

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon, United States. Received July 07, 1983.

PI 558016 **origin:** United States. **pedigree:** Collected from the wild in Oregon. **locality:** N. Fork, Willamette River, Lane County. Perennial. Wild. Plant.

PI 558017 **origin:** United States. **historical origin:** United States. **origin institute:** A.M. Todd Co., Kalamazoo, Michigan. **pedigree:** Selection from New Brunswick, NJ (as *M. rotundifolia*). **remarks:** Male-sterile (95% aborted pollen), spearmint odor. Perennial. Breeding Material. Plant.

PI 558018. *Mentha x villosa* var. *alopecuroides* (Hull) Briq. LAMIACEAE
Mint

Donated by: Gilly, G., INRA, Antibes, France. Received June 26, 1989.

origin: France. Perennial. Cultivated. Cutting.

PI 558019. *Solanum acaule* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States. Received .

origin: Peru. **collector id:** Och 11989. Wild. Tuber.

PI 558020 to 558024. *Solanum acaule* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States. Received October 1983.

PI 558020 to 558024-continued

- PI 558020 **origin:** Argentina. **collected:** February 10, 1983. **collector id:** Oka 7451. **locality:** Tilcara. Above El Durazno, 12 hours east of Tilcara by mule. **latitude:** 65 deg. 38 min.. **longitude:** 23 deg. 58 min.. **elevation:** 3200m. **remarks:** Side of a potato field, steep southern slopes. Wild. Seed.
- PI 558021 **origin:** Argentina. **collected:** March 20, 1983. **collector id:** Oka 7503. **locality:** Chicoana. Cuesta del Obispo, Valle Encantado. **latitude:** 65 deg. 52 min.. **longitude:** 25 deg. 10 min.. **elevation:** 3450m. **remarks:** Grassy slopes. Wild. Seed.
- PI 558022 **origin:** Argentina. **collected:** March 27, 1983. **collector id:** Oka 7536. **locality:** Rosario de Lerma. Guayar, Puesto de Las Lajas, between Ovejera and San Jose, about 1.5 days from Castellanos. **latitude:** 65 deg. 35 min.. **longitude:** 24 deg. 36 min.. **elevation:** 3650m. **remarks:** Side of cultivated field by stone wall. Wild. Seed.
- PI 558023 **origin:** Argentina. **collected:** April 03, 1983. **collector id:** Oka 7564. **locality:** Capital. Quebrada de Tolara, 1 km from Molinos. **latitude:** 65 deg. 38 min.. **longitude:** 23 deg. 58 min.. **elevation:** 3500m. **remarks:** In a cattle enclosure. Wild. Seed.
- PI 558024 **origin:** Argentina. **collected:** April 04, 1983. **collector id:** Oka 7576 A. **locality:** Capital. Ovejera about ten hours from Leon by mule. **latitude:** 65 deg. 40 min.. **longitude:** 24 deg. 06 min.. **elevation:** 3450m. Wild. Seed.

PI 558025 to 558028. *Solanum acaule* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received June 1984.

- PI 558025 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7602 D. **locality:** Humahuaca. Between Palca de Aparzo and Cianza. **latitude:** 65 deg. 06 min.. **longitude:** 23 deg. 10 min.. **elevation:** 3400m. Wild. Seed.
- PI 558026 **origin:** Argentina. **collected:** April 16, 1983. **collector id:** Oka 7628 B. **locality:** Humahuaca. chaupi Rodero, road from Iturbe to Iruya. **latitude:** 65 deg. 19 min.. **longitude:** 22 deg. 56 min.. **elevation:** 3500m. Wild. Seed.

PI 558025 to 558028-continued

PI 558027 **origin:** Argentina. **collected:** April 17, 1983. **collector id:** Oka 7632 A. **locality:** Oran. Trail from Palca de Aparzo to Santa Cruz, about six hours from the road by mule. **latitude:** 64 deg. 59 min.. **longitude:** 23 deg. 09 min.. **elevation:** 3600m. **remarks:** Side of path. Wild. Seed.

PI 558028 **origin:** Argentina. **collected:** April 20, 1983. **collector id:** Oka 7636 B. **locality:** Oran. El Remate, above Santa Cruz. **latitude:** 64 deg. 55 min.. **longitude:** 23 deg. 12 min.. **elevation:** 2900m. Wild. Seed.

PI 558029. *Solanum acaule* Bitter subsp. *acaule* SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

origin: Argentina. **collected:** April 10, 1983. **collector id:** Oka 7434. **locality:** San Carlos. 11 km south of route 59, road to Mina Don Otto. **latitude:** 65 deg. 54 min.. **longitude:** 23 deg. 17 min.. **elevation:** 3100m. Wild. Seed.

PI 558030. *Solanum acaule* Bitter subsp. *acaule* SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received June 1984.

origin: Argentina. **collected:** April 28, 1983. **collector id:** Oka 7659 C. **locality:** Rosario de Lerma. Between Cienaga and Cerro Negro, 29 km east from the crossing with route 59. **latitude:** 65 deg. 54 min.. **longitude:** 25 deg. 07 min.. **elevation:** 3700m. Wild. Seed.

PI 558031. *Solanum acaule* subsp. *albicans* (Ochoa) Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

origin: Peru. **collector id:** Och 12093. Wild. Tuber.

PI 558032. *Solanum achacachense* Cardenas SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received 1989.

origin: Bolivia. **collector id:** Hoop 3. Wild. Seed.

PI 558033. *Solanum berthaultii* Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received March 1981.

origin: Bolivia. **collector id:** HHA 6542. Wild. Seed.

PI 558034 to 558036. *Solanum berthaultii* Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received May 1984.

PI 558034 **origin:** Bolivia. **collector id:** Lap 31284-1. Wild. Seed.

PI 558035 **origin:** Bolivia. **collector id:** Lap 32084-2. Wild. Seed.

PI 558036 **origin:** Bolivia. **collector id:** Lap 32084-3. Wild. Seed.

PI 558037 to 558040. *Solanum brevidens* Philippi SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

PI 558037 **donor id:** UA-1315. **origin:** Chile. **collector id:** UAC 1315. **other id:** Q 27649. Wild. Seed.

PI 558038 **donor id:** UA-1416. **origin:** Chile. **collector id:** UAC 1416. **other id:** Q 27651. Wild. Seed.

PI 558039 **donor id:** UA-1441. **origin:** Chile. **collector id:** UAC 1441. **other id:** Q 27652. Wild. Seed.

PI 558040 **donor id:** UA-1444. **origin:** Chile. **collector id:** UAC 1444. **other id:** Q 27653. Wild. Seed.

PI 558041. *Solanum cardiophyllum* Lindley SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received August 1986.

origin: Mexico. **collector id:** Haw 6751. **Wild.** **Seed.**

PI 558042 to 558044. *Solanum chacoense* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

PI 558042 **origin:** Argentina. **collected:** March 20, 1983. **collector id:** Oka 7497. **locality:** Chicoana. Quebrada de Escoipe, Pie de la Cuesta on route 59. **latitude:** 65 deg. 48 min.. **longitude:** 25 deg. 11 min.. **elevation:** 2700m. **remarks:** As a weed in a maize field. **Wild.** **Seed.**

PI 558043 **origin:** Argentina. **collected:** March 20, 1983. **collector id:** Oka 7505. **locality:** Chicoana. Quebrada de Escoipe, Hosteria El Maray on route 59. **latitude:** 65 deg. 48 min.. **longitude:** 25 deg. 11 min.. **elevation:** 2100m. **remarks:** As a weed in a tomato field. **Wild.** **Seed.**

PI 558044 **origin:** Argentina. **collected:** March 31, 1983. **collector id:** Oka 7546. **locality:** Tumbaya. 13 km north of Leon on route 59, near Volcan. **latitude:** 65 deg. 27 min.. **longitude:** 23 deg. 58 min.. **elevation:** 2000m. **remarks:** At roadside amongst stones. **Wild.** **Seed.**

PI 558045 to 558047. *Solanum colombianum* Dunal SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received March 1982.

PI 558045 **origin:** Colombia. **collector id:** LOPEZ 80.0072. **Wild.** **Seed.**

PI 558046 **origin:** Colombia. **collector id:** LOPEZ 80.0074. **Wild.** **Seed.**

PI 558047 **origin:** Colombia. **collector id:** LOPEZ 80.0076. **Wild.** **Seed.**

PI 558048 to 558050. *Solanum commersonii* Dunal ex Poiret SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula
Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

PI 558048 origin: Argentina. collector id: Bru 4. Wild. Seed.

PI 558049 origin: Argentina. collector id: Bru 5. Wild. Seed.

PI 558050 origin: Argentina. collector id: Bru 020. Wild. Seed.

PI 558051. *Solanum demissum* Lindley SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula
Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1989.

origin: Mexico. collector id: Hje 7259. Wild. Seed.

PI 558052. *Solanum demissum* Lindley SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula
Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received May 1970.

origin: Mexico. collector id: K 2761. Wild. Seed.

PI 558053 to 558056. *Solanum etuberosum* Lindley SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula
Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

PI 558053 donor id: UA-1317. origin: Chile. collector id: UAC
1317. other id: Q 27650. Wild. Seed.

PI 558054 donor id: UA-1318. origin: Chile. collector id: UAC
1318. other id: Q 27654. Wild. Seed.

PI 558055 donor id: UA-1434. origin: Chile. collector id: UAC
1434. other id: Q 27656. Wild. Seed.

PI 558056 donor id: UA-1625. origin: Chile. collector id: UAC
1625. other id: Q 27657. Wild. Seed.

PI 558057 to 558059. *Solanum fendleri* A. Gray SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received 1989.

PI 558057 **origin:** Mexico. **collector id:** Hje 7260. Wild. Seed.

PI 558058 **origin:** Mexico. **collector id:** Hje 7264. Wild. Seed.

PI 558059 **origin:** Mexico. **collector id:** Hje 7265. Wild. Seed.

PI 558060. *Solanum fendleri* A. Gray SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received May 1970.

origin: Mexico. **collector id:** K 5332. Wild. Seed.

PI 558061. *Solanum gourlayi* Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received August 12, 1987.

origin: Bolivia. **collected:** > N 03, 1986.
collector id: HAO 132. **locality:** 38 km from Betanzos on way to Sucre. **remarks:** Side of cultivated field under spiny shrubs. Leaves large and thin; berries round.
Wild. Seed.

PI 558062 to 558070. *Solanum gourlayi* Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

PI 558062 **origin:** Argentina. **collected:** March 22, 1983. **collector id:** Oka 7521. **locality:** San Carlos. Isonza, two hours by foot from Isonza following the ravine. **latitude:** 65 deg. 53 min.. **longitude:** 25 deg. 20 min.. **elevation:** 3500m. **remarks:** Steep southern slopes above a ravine. Alluvial cone, berries with green skin and white spots.
Wild. Seed.

PI 558063 **origin:** Argentina. **collected:** March 31, 1983. **collector id:** Oka 7547. **locality:** Tumbaya. Quebrada de Lipan near Purmamarca. **latitude:** 65 deg. 35 min.. **longitude:** 23 deg. 36 min.. **elevation:** 3300m. Wild. Seed.

PI 558062 to 558070-continued

- PI 558064 **origin:** Argentina. **collected:** April 03, 1983. **collector id:** Oka 7558. **locality:** Capital. Molinos about nine hours northwest of Leon by mule. **latitude:** 65 deg. 38 min.. **longitude:** 23 deg. 58 min.. **elevation:** 3200m. Wild. Seed.
- PI 558065 **origin:** Argentina. **collected:** April 03, 1983. **collector id:** Oka 7560. **locality:** Capital. Quebrada del Agua de Molinos, near Molinos, about nine hours from Leon by mule. **latitude:** 65 deg. 38 min.. **longitude:** 23 deg. 58 min.. **elevation:** 3550m. **remarks:** Side of a potato field. Wild. Seed.
- PI 558066 **origin:** Argentina. **collected:** April 03, 1983. **collector id:** Oka 7565. **locality:** Capital. Quebrada de Tolara, 1 km from Molinos. **latitude:** 65 deg. 38 min.. **longitude:** 23 deg. 58 min.. **elevation:** 3500m. **remarks:** On the banks of a stream; side of cultivated fields. Wild. Seed.
- PI 558067 **origin:** Argentina. **collected:** April 04, 1983. **collector id:** Oka 7577. **locality:** Capital. Abra de Cerrillos, trail from Molinos to Ovejeria. **latitude:** 65 deg. 40 min.. **longitude:** 24 deg. 06 min.. **elevation:** 3450m. **remarks:** On the bank of a stream. Wild. Seed.
- PI 558068 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7588. **locality:** Tilcara. Quebrada de Jueya near Tilcara. **latitude:** 65 deg. 27 min.. **longitude:** 23 deg. 30 min.. **elevation:** 2700m. **remarks:** Southern side of stoney slopes. Wild. Seed.
- PI 558069 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7597. **locality:** Humahuaca. Palca de Aparzo road from Humahuaca to Ciarzo. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 10 min.. **elevation:** 3500m. Wild. Seed.
- PI 558070 **origin:** Argentina. **collected:** April 14, 1983. **collector id:** Oka 7625. **locality:** Tilcara. Abra de Ventura, trail from Tilcara to El Durazno. **latitude:** 65 deg. 17 min.. **longitude:** 23 deg. 35 min.. **elevation:** 3700m. **remarks:** Stoney dry slopes by path. Wild. Seed.

PI 558071 to 558084. *Solanum gourlayi* Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received June 1984.

PI 558071 to 558084-continued

- PI 558071 origin: Argentina. collected: March 22, 1983. collector id: Oka 7522. locality: San Carlos. Isonza, two hours by foot from Isonza following the ravine. latitude: 65 deg. 53 min.. longitude: 25 deg. 20 min.. elevation: 3500m. remarks: Steep southern slopes of a ravine. Alluvial cone. Wild. Seed.
- PI 558072 origin: Argentina. collected: April 08, 1983. collector id: Oka 7591. locality: Humahuaca. Pucara on the road from Humahuaca to Palca de Aparzo. latitude: 65 deg. 11 min.. longitude: 23 deg. 10 min.. elevation: 3500m. remarks: Banks of streams under bushes. Wild. Seed.
- PI 558073 origin: Argentina. collected: April 08, 1983. collector id: Oka 7594. locality: Humahuaca. Palca de Aparzo road from Humahuaca to Ciarzo. latitude: 65 deg. 11 min.. longitude: 23 deg. 10 min.. elevation: 3500m. remarks: Banks of the river. Wild. Seed.
- PI 558074 origin: Argentina. collected: April 08, 1983. collector id: Oka 7595 B. locality: Humahuaca. Palca de Aparzo road from Humahuaca to ciarzo. latitude: 65 deg. 11 min.. longitude: 23 deg. 10 min.. elevation: 3500m. Wild. Seed.
- PI 558075 origin: Argentina. collected: April 08, 1983. collector id: Oka 7596 C. locality: Humahuaca. Palca de Aparzo road from Humahuaca to Ciarzo. latitude: 65 deg. 11 min.. longitude: 23 deg. 10 min.. elevation: 3500m. Wild. Seed.
- PI 558076 origin: Argentina. collected: April 08, 1983. collector id: Oka 7602 C. locality: Humahuaca. Between Palca de Aparzo and Cianza. latitude: 65 deg. 06 min.. longitude: 23 deg. 10 min.. elevation: 3400m. Wild. Seed.
- PI 558077 origin: Argentina. collected: April 08, 1983. collector id: Oka 7604. locality: Humahuaca. Cianza. latitude: 65 deg. 12 min.. longitude: 23 deg. 14 min.. elevation: 3000m. remarks: At the side of an alfalfa field by a stone wall. Wild. Seed.
- PI 558078 origin: Argentina. collected: April 16, 1983. collector id: Oka 7626. locality: Humahuaca. Chaupi Rodero, road from Iturbe to Iruya. latitude: 65 deg. 19 min.. longitude: 22 deg. 56 min.. elevation: 3500m. remarks: Stream banks under bushes. Wild. Seed.

- PI 558079 **origin:** Argentina. **collected:** April 25, 1983. **collector id:** Oka 7652 L. **locality:** La Poma. Quebrada de Matanzillas, 8 km west of route 40, 33 km north of San Antonio de los Cobres, between kms 1412 and 1413 of route 40. **latitude:** 66 deg. 21 min.. **longitude:** 23 deg. 56 min.. **elevation:** 3700m. **remarks:** Steep shaded rocky slopes of a gorge. berries with green skin; white mottled. Wild. Seed.
- PI 558080 **origin:** Argentina. **pedigree:** Oka 7660 x 7667. **collected:** April 28, 1983. **collector id:** Oka 7660 x 7667. **locality:** 7660 - Rosario de Lerma. Cerro Negro, 35 km east from the crossing with route 59. 7667 - Rosario de Lerma. Cerro Negro, 2 km north from the school. **latitude:** 65 deg. 52 min.. **longitude:** 25 deg. 02 min.. **elevation:** 3400m. **remarks:** On the banks of the Las Arcas River, under bushes. Wild. Seed.
- PI 558081 **origin:** Argentina. **collected:** May 04, 1983. **collector id:** Oka 7677. **locality:** Cachi. Sierra de Cachi, Las Cuevas, about sex hours northwest of Cachi by mule on the trail to Nevado de Cachi. **latitude:** 66 deg. 22 min.. **longitude:** 25 deg. 09 min.. **elevation:** 3500m. **remarks:** Under bushes at the bank of a mountain stream. Wild. Seed.
- PI 558082 **origin:** Argentina. **collected:** May 05, 1983. **collector id:** Oka 7678. **locality:** Cachi. Sierra de Cachi, Antigal, about eight km south of Las Cuevas. **latitude:** 66 deg. 23 min.. **longitude:** 25 deg. 06 min.. **elevation:** 3500m. **remarks:** At the river bank, under bushes. Wild. Seed.
- PI 558083 **origin:** Argentina. **collected:** May 05, 1983. **collector id:** Oka 7679. **locality:** Cachi. Sierra de Cachi, Antigal, about eight km south of Las Cuevas. **latitude:** 66 deg. 23 min.. **longitude:** 25 deg. 06 min.. **elevation:** 3500m. **remarks:** At the river bank, under bushes. Wild. Seed.
- PI 558084 **origin:** Argentina. **collected:** May 05, 1983. **collector id:** Oka 7680. **locality:** Cachi, Sierra de Cachi, Antigal. **latitude:** 66 deg. 23 min.. **longitude:** 25 deg. 06 min.. **elevation:** 3600m. **remarks:** At the foot of a stone wall in the antigal. Wild. Seed.

PI 558085 to 558088. *Solanum infundibuliforme* Philippi SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received June 1984.

PI 558085 **origin:** Argentina. **pedigree:** Oka 7590 B x 7630.
collected: April 08, 1983. **collector id:** Oka 7590 B x 7630. **locality:** 7590 B - Humahuaca. Pucara on the road from Humahuaca to Palca de Aparzo. 7630 - Humahuaca. Quebrada de la Soledad, on the road from Humahuaca to Coraya. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 10 min.. **elevation:** 3500m. **remarks:** Side of cultivated fields by stone walls. Wild. Seed.

PI 558086 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7602 A. **locality:** Humahuaca. Between Palca de Aparzo and Cianzo. **latitude:** 65 deg. 06 min.. **longitude:** 23 deg. 10 min.. **elevation:** 3400m. **remarks:** Roadside. Wild. Seed.

PI 558087 **origin:** Argentina. **collected:** April 16, 1983. **collector id:** Oka 7630. **locality:** Gumahuaca. Chaupi Rodero, road from Iturbe to Iruya. **latitude:** 65 deg. 19 min.. **longitude:** 22 deg. 56 min.. **elevation:** 3500m. Wild. Seed.

PI 558088 **origin:** Argentina. **collected:** April 25, 1983. **collector id:** Oka 7652 K. **locality:** La Poma. Quebrada de Matanzillas, 8 km west of route 40, 33 km north of San Antonio de los Cobres, between kms 1412 and 1413 of route 40. **latitude:** 66 deg. 21 min.. **longitude:** 23 deg. 56 min.. **elevation:** 3700m. **remarks:** Steep shaded rocky slopes of a gorge. Berries with green skin and mottled white. Wild. Seed.

PI 558089. *Solanum jamesii* Torrey SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received May 1986.

origin: United States. **collector id:** Coon 1. Wild. Seed.

PI 558090 to 558092. *Solanum lycopersicoides* Dunal SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

PI 558090 to 558092-continued

PI 558090 donor id: CON-670. origin: Chile. collector id: Con 670. other id: Q 27658. Wild. Seed.

PI 558091 donor id: CON-704. origin: Chile. collector id: Con 704. other id: Q 27659. Wild. Seed.

PI 558092 donor id: CON-705. origin: Chile. collector id: Con 705. other id: Q 27660. Wild. Seed.

PI 558093 to 558095. *Solanum megistacrolobum* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received June 1984.

PI 558093 origin: Argentina. pedigree: Oka 7595 x 7596.
collected: April 08, 1983. collector id: Oka 7595 x 7596. locality: Humahuaca. Palca de Aparzo road from Humahuaca to Ciarzo. latitude: 65 deg. 11 min.. longitude: 23 deg. 10 min.. elevation: 3500m. Wild. Seed.

PI 558094 origin: Argentina. collected: April 08, 1983. collector id: Oka 7596 A. locality: Humahuaca. Palca de Aparzo road from Humahuaca to Ciarzo. latitude: 65 deg. 11 min.. longitude: 23 deg. 10 min.. elevation: 3500m. Wild. Seed.

PI 558095 origin: Argentina. pedigree: Oka 7608 C x 7596.
collected: April 08, 1983. collector id: Oka 7608 C x 7596. locality: Tilcara. Below Abra Colorada about seven hours from Tilcara by mule on the trail to El Durazno. latitude: 65 deg. 13 min.. longitude: 23 deg. 35 min.. elevation: 3250m. Wild. Seed.

PI 558096. *Solanum megistacrolobum* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

origin: Argentina. collected: April 08, 1983. collector id: Oka 7595 A. locality: Humahuaca. Palca de Aparzo road from Humahuaca to Ciarzo. latitude: 65 deg. 11 min.. longitude: 23 deg. 10 min.. elevation: 3500m. Wild. Seed.

PI 558097 to 558100. *Solanum microdontum* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

PI 558097 **origin:** Argentina. **collected:** March 26, 1983. **collector id:** Oka 7530. **locality:** Rosario de Lerma. Abra de Tinajas, about 14 hours by mule from Castellanos. **latitude:** 65 deg. 35 min.. **longitude:** 24 deg. 37 min.. **elevation:** 3350m. **remarks:** Around cattle enclosures and cultivated fields. Wild. Seed.

PI 558098 **origin:** Argentina. **collected:** March 27, 1983. **collector id:** Oka 7538. **locality:** Rosario de Lerma. Guayar, Puesto de Las Lajas, between Ovejeria and San Jose, about 1.5 days from Castellanos. **latitude:** 65 deg. 35 min.. **longitude:** 24 deg. 36 min.. **elevation:** 3650m. Wild. Seed.

PI 558099 **origin:** Argentina. **collected:** April 10, 1983. **collector id:** Oka 7612. **locality:** Tilcara. El Durazno about 13 hours by mule from Tilcara. **latitude:** 65 deg. 14 min.. **longitude:** 23 deg. 36 min.. **elevation:** 2550m. **remarks:** Side of maize field; bushy slopes. Wild. Seed.

PI 558100 **origin:** Argentina. **collected:** April 20, 1983. **collector id:** Oka 7634. **locality:** Oran. Santa Cruz about 13 hours from the road by mule. **latitude:** 64 deg. 55 min.. **longitude:** 23 deg. 12 min.. **elevation:** 2400m. **remarks:** By a stone wall. Wild. Seed.

PI 558101. *Solanum microdontum* subsp. *gigantophyllum* (Bitter) Hawkes & Hjert. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

origin: Argentina. **collected:** April 07, 1983. **collector id:** Oka 7587. **locality:** Capital. 2 km below Pie de la Cuesta on the trail from Leon to Ovejeria. **latitude:** 65 deg. 36 min.. **longitude:** 24 deg. 06 min.. **elevation:** 2550m. **remarks:** Bank of the river, under bushes. Wild. Seed.

PI 558102. *Solanum okadae* Hawkes & Hjert. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

PI 558102-continued

origin: Argentina. **collected:** March 20, 1983. **collector id:** Oka 7499. **locality:** Chicoana. Cuesta del Obispo, 6 km above Pie de la Cuesta on route 59. **latitude:** 65 deg. 51 min.. **longitude:** 25 deg. 09 min.. **elevation:** 3050m. **remarks:** Damp ravine. Wild. Seed.

PI 558103 to 558105. *Solanum okadae* Hawkes & Hjert. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received June 1984.

PI 558103 **origin:** Argentina. **collected:** March 24, 1983. **collector id:** Oka 7525. **locality:** Capital. Gordon de Lesser, El Calvario, about eight hours by mule from Castellanos on the trail to San Jose and Ovejeria. **latitude:** 65 deg. 34 min.. **longitude:** 24 deg. 37 min.. **elevation:** 3200m. **remarks:** Amongst stones in a steep grassy slope, southern side. Wild. Seed.

PI 558104 **origin:** Argentina. **collected:** April 05, 1983. **collector id:** Oka 7584 B. **locality:** Capital. Falda de Sombra, trail from Ovejeria to Leon, about seven hours from Leon by mule. **latitude:** 65 deg. 38 min.. **longitude:** 24 deg. 07 min.. **elevation:** 3150m. Wild. Seed.

PI 558105 **origin:** Argentina. **collected:** April 13, 1983. **collector id:** Oka 7618 B. **locality:** Tilcara. Piscuno, about three hours, above El Durazno by mule. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 36 min.. **elevation:** 3100m. Wild. Seed.

PI 558106. *Solanum oplocense* Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received March 1979.

origin: Bolivia. **collector id:** HHL 6118. Wild. Seed.

PI 558107 to 558110. *Solanum oplocense* Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received June 1984.

PI 558107 to 558110-continued

PI 558107 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7590. **locality:** Humahuaca. Pucara on the road from Humahuaca to Palca de Aparzo. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 10 min.. **elevation:** 3500m. **remarks:** Side of cultivated fields by stone walls. Wild. Seed.

PI 558108 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7592. **locality:** Humahuaca. Pucara on the road from Humahuaca to Palca de Aparzo. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 10 min.. **elevation:** 3500m. **remarks:** By stone walls. Wild. Seed.

PI 558109 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7596 B. **locality:** Humahuaca. Palca de Aparzo road from Humahuaca to Ciarzo. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 10 min.. **elevation:** 3500m. Wild. Seed.

PI 558110 **origin:** Argentina. **collected:** April 16, 1983. **collector id:** Oka 7631. **locality:** Humahuaca. Quebrada de la Soledad, on the road from Humahuaca to Coraya. **latitude:** 65 deg. 25 min.. **longitude:** 23 deg. 12 min.. **elevation:** 3000m. **remarks:** Dry slopes near cultivated fields, under spiny shrubs. Wild. Seed.

PI 558111. *Solanum paucijugum* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

origin: Colombia. **collector id:** CCC 5174. Wild. Seed.

PI 558112. *Solanum phureja* Juz. & Buk. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

donor id: CIP 703280. **origin:** Peru. **collector id:** OCH 11589. **other id:** Q 27215. **other id:** C21042. **other id:** BE-1917. Cultivated. Seed.

PI 558113 to 558116. *Solanum rickii* Correll SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

PI 558113 to 558116-continued

- PI 558113 **donor id:** CON-723. **origin:** Chile. **collector id:** Con 723. **other id:** Q 27661. Wild. Seed.
- PI 558114 **donor id:** CON-724. **origin:** Chile. **collector id:** Con 724. **other id:** Q 27662. Wild. Seed.
- PI 558115 **donor id:** CON-725. **origin:** Chile. **collector id:** Con 725. **other id:** Q 27663. Wild. Seed.
- PI 558116 **donor id:** CON-726. **origin:** Chile. **collector id:** Con 726. **other id:** Q 27664. Wild. Seed.

PI 558117 to 558123. *Solanum* sp. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received June 1984.

- PI 558117 **origin:** Argentina. **pedigree:** Oka 7608 A x 7616. **collected:** April 12, 1983. **collector id:** Oka 7608 A x 7616. **locality:** 7616 - Tilcara. Las Abritas above El Durazno. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 36 min.. **elevation:** 3100m. **remarks:** Grassy slopes. Wild. Seed.
- PI 558118 **origin:** Argentina. **collected:** April 13, 1983. **collector id:** Oka 7618 A. **locality:** Tilcara. Piscuno, about three hours, above El Durazno by mule. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 36 min.. **elevation:** 3100m. Wild. Seed.
- PI 558119 **origin:** Argentina. **collected:** April 13, 1983. **collector id:** Oka 7619 A. **locality:** Tilcara. Piscuno, about three hours, above El Durazno by mule. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 36 min.. **elevation:** 3100m. Wild. Seed.
- PI 558120 **origin:** Argentina. **collected:** April 13, 1983. **collector id:** Oka 7619 B. **locality:** Tilcara. Piscuno, about three hours, above El Durazno by mule. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 36 min.. **elevation:** 3100m. Wild. Seed.
- PI 558121 **origin:** Argentina. **collected:** March 26, 1983. **collector id:** Oka 7531. **locality:** Rosario de Lerma. Abra de Tinajas, about 14 hours by mule from Castellanos. **latitude:** 65 deg. 35 min.. **longitude:** 24 deg. 37 min.. **elevation:** 3350m. **remarks:** Grassy slopes, amongst stones. Wild. Seed.

PI 558117 to 558123-continued

PI 558122 origin: Argentina. collected: April 05, 1983. collector id: Oka 7585. locality: Capital. latitude: 65 deg. 38 min.. longitude: 24 deg. 07 min.. elevation: 3150m. remarks: In a stone wall of a shaded slope. Wild. Seed.

PI 558123 origin: Argentina. collected: April 19, 1983. collector id: Oka 7633. locality: Oran. Infiernillo about eight hours from the road by mule. latitude: 64 deg. 56 min.. longitude: 23 deg. 10 min.. elevation: 3500m. remarks: Steep, rocky, southern slopes. Wild. Seed.

PI 558124 to 558128. *Solanum* sp. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

PI 558124 origin: Peru. collector id: CIP 760415. Wild. Seed.

PI 558125 origin: Bolivia. collected: March 1978. collector id: Och 11956. Wild. Tuber.

PI 558126 origin: Ecuador. collected: March 20, 1963. collector id: Och S-45. locality: Tundaloma. Wild. Seed.

PI 558127 origin: Argentina. collected: April 10, 1983. collector id: Oka 7609. locality: Tilcara. Olladas, below Abra Colorada about ten hours from Tilcara by mule on the trail to El Durazno. latitude: 65 deg. 13 min.. longitude: 23 deg. 35 min.. elevation: 2950m. remarks: Shaded slopes. Wild. Seed.

PI 558128 origin: Mexico. collector id: TRHRG 4. Wild. Seed.

PI 558129 to 558130. *Solanum tarijense* Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

PI 558129 origin: Argentina. collected: March 19, 1983. collector id: Oka 7494. locality: Chicoana, Quebrada de Escoipe, 1 km east of Hosteria El Maray on route 59. latitude: 65 deg. 48 min.. longitude: 25 deg. 11 min.. elevation: 2100m. remarks: Steep bank of the road. Wild. Seed.

PI 558129 to 558130-continued

PI 558130 **origin:** Argentina. **collected:** March 19, 1983. **collector id:** Oka 7495. **locality:** Chicoana. Quebrada de Escoipe, 2 km east of Hosteria El Maray on route 59. **latitude:** 65 deg. 48 min.. **longitude:** 25 deg. 11 min.. **elevation:** 2100m. **remarks:** Roadside. Wild. Seed.

PI 558131 to 558135. *Solanum tuberosum* L. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received May 1970.

PI 558131 **origin:** Peru. **collector id:** K 10845. Cultivated. Seed.

PI 558132 **origin:** Peru. **collector id:** K 10995. Cultivated. Seed.

PI 558133 **origin:** Colombia. **collector id:** K 1699. Cultivated. Seed.

PI 558134 **origin:** Argentina. **collector id:** K 2193. Cultivated. Seed.

PI 558135 **origin:** Peru. **collector id:** K 9608. Cultivated. Seed.

PI 558136. *Solanum tuberosum* L. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

origin: Argentina. **pedigree:** Oka 3939 x HOF 1654.
collector id: Oka 3939 x HOF 1654. Cultivated. Seed.

PI 558137 to 558139. *Solanum tuberosum* L. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

PI 558137 **origin:** Argentina. **collected:** March 21, 1983. **collector id:** Oka 7507. **locality:** Cachi. Agua de los Loros, between Payogasta and Tintin 11 km southeast of Payogasta on route 59. **latitude:** 66 deg. 02 min.. **longitude:** 25 deg. 04 min.. **elevation:** 3200m. **remarks:** Under bushes in a dry bed of a stream. Cultivated. Seed.

PI 558137 to 558139-continued

PI 558138 **origin:** Argentina. **collected:** April 03, 1983. **collector id:** Oka 7559. **locality:** Capital. Molinos about nine hours northwest of Leon by mule. **latitude:** 65 deg. 38 min.. **longitude:** 23 deg. 58 min.. **elevation:** 3200m. Cultivated. Seed.

PI 558139 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7589. **locality:** Tilcara. **latitude:** 65 deg. 27 min.. **longitude:** 23 deg. 30 min.. **elevation:** 2700m. Cultivated. Seed.

PI 558140. *Solanum tuberosum* subsp. *andigena* Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received .

origin: Bolivia. **collector id:** Car 165. **other id:** Q 26926. **other id:** BE-9776. **received as:** *S. andigena*. Cultivated. Tuber.

PI 558141 to 558145. *Solanum tuberosum* subsp. *andigena* Hawkes
SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

PI 558141 **origin:** Argentina. **collected:** March 31, 1983. **collector id:** Oka 7548. **locality:** Tumbaya. Quebrada de Lipan near Purmamarca. **latitude:** 65 deg. 35 min.. **longitude:** 23 deg. 36 min.. **elevation:** 3300m. Cultivated. Seed.

PI 558142 **origin:** Argentina. **collected:** April 04, 1983. **collector id:** Oka 7581. **locality:** Capital. Abra de Cerrillos, trail from Molinos to Ovejeria. **latitude:** 65 deg. 40 min.. **longitude:** 24 deg. 06 min.. **elevation:** 3450m. Cultivated. Seed.

PI 558143 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7593. **locality:** Humahuaca. Pucara on the road from Humahuaca to Palca de Aparzo. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 10 min.. **elevation:** 3500m. Cultivated. Seed.

PI 558144 **origin:** Argentina. **collected:** April 08, 1983. **collector id:** Oka 7599. **locality:** Humahuaca. Palca de Aparzo road from Humahuaca to Ciarzo. **latitude:** 65 deg. 11 min.. **longitude:** 23 deg. 10 min.. **elevation:** 3500m. Cultivated. Seed.

PI 558141 to 558145-continued

PI 558145 **origin:** Argentina. **collected:** April 30, 1983. **collector id:** Oka 7674. **locality:** La Poma. Esquina Colorada near Finca Esquina Azul on route 40. **latitude:** 66 deg. 12 min.. **longitude:** 24 deg. 39 min.. **elevation:** 3300m. Cultivated. Seed.

PI 558146. *Solanum venturii* Hawkes & Hjert. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received June 1984.

origin: Argentina. **collected:** April 05, 1983. **collector id:** Oka 7584 A. **locality:** Capital. Falda de Sombra, trail from Ovejeria to Leon, about seven hours from Leon by mule. **latitude:** 65 deg. 38 min.. **longitude:** 24 deg. 07 min.. **elevation:** 3150m. **remarks:** Amongst stones in open places in a shaded damp slope by path. Rounded to elliptic berries, white mottled. Wild. Seed.

PI 558147 to 558151. *Solanum vernei* Bitter & Wittm. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 1983.

PI 558147 **origin:** Argentina. **collected:** March 20, 1983. **collector id:** Oka 7500. **locality:** Chicoana. Cuesta del Obispo, Quebrada Sunchal, 8 km above Pie de la Cuesta on route 59. **latitude:** 65 deg. 51 min.. **longitude:** 25 deg. 09 min.. **elevation:** 3100m. **remarks:** Steep slopes of a narrow ravine. Wild. Seed.

PI 558148 **origin:** Argentina. **collected:** March 20, 1983. **collector id:** Oka 7502. **locality:** Chicoana. Cuesta del Obispo, Valle Encantado. **latitude:** 65 deg. 52 min.. **longitude:** 25 deg. 10 min.. **elevation:** 3450m. **remarks:** Grassy slopes. Wild. Seed.

PI 558149 **origin:** Argentina. **collected:** April 05, 1983. **collector id:** Oka 7582. **locality:** Capital. Alfarcito, on the trail from Ovejeria to Leon, about 8 hours from Leon by mule. **latitude:** 65 deg. 39 min.. **longitude:** 24 deg. 04 min.. **elevation:** 3200m. **remarks:** Steep slopes by path. Wild. Seed.

PI 558147 to 558151-continued

PI 558150 origin: Argentina. collected: April 12, 1983. collector id: Oka 7614. locality: Tilcara. Puesto Yusto above El Durazno. latitude: 65 deg. 11 min.. longitude: 23 deg. 36 min.. elevation: 3350m. remarks: Steep southern slopes. Wild. Seed.

PI 558151 origin: Argentina. collected: April 13, 1983. collector id: Oka 7617. locality: Tilcara. Piscuno, about three hours, above El Durazno by mule. latitude: 65 deg. 11 min.. longitude: 23 deg. 36 min.. elevation: 3100m. remarks: Slopes. Wild. Seed.

PI 558152 to 558159. *Solanum acaule* subsp. *aemulans* (Bitter & Wittm.) Hawkes & Hjert. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

PI 558152 origin: Argentina. collected: April 06, 1990. collector id: SCl 4586. locality: Famatina. On road from Corrales to Mina la Mejicana, 2 km of Cuevas de Norona, just above Rio Amarillo, in valley 500 m upstream from road. latitude: 28 deg. 56 min.. longitude: 67 deg. 40 min.. elevation: 2960m. remarks: Sandy and rocky soil of grazed valley, growing with *Mutisia kurtzii*, *Adesmia cytisoides*, *Senecio rudbeckiaefolius*, *Bacharis*. Mostly plants completely withered and mature fruits abundant on ground. Wild. Seed.

PI 558153 origin: Argentina. collected: April 06, 1990. collector id: SCl 4591. locality: Famatina. On road from Corrales to Mina La Majicana, 2.5 km S of Cuevas de Norona, on SE side of Rio Amarillo. latitude: 28 deg. 56 min.. longitude: 67 deg. 40 min.. elevation: 2940m. remarks: In rocky clay soil, growing with *Stipa*, *Senecio rudbeckiaefolius*. Plants complete withered, mature fruits common on ground; Plants abundant. Wild. Seed.

PI 558154 origin: Argentina. collected: April 06, 1990. collector id: SCl 4592. locality: Famatina. 4.5 km S of Cuevas de Norona, on road from Corrales to Mina La Mejicana, on SE side of Rio Amarillo. latitude: 28 deg. 57 min.. longitude: 67 deg. 35 min.. elevation: 3050m. remarks: In heavily grazed field, among cow dung, in rocky clay soil, growing with *Senecio rudbeckiaefolius*, *Baccharis* species. Plants completely withered, mature fruits common on ground, plants abundant. Wild. Seed.

PI 558152 to 558159-continued

- PI 558155 **origin:** Argentina. **collected:** April 06, 1990. **collector id:** SC1 4594. **locality:** Famatina. At La Encricijada, 6.6 km NE of Mina La Mejicana, on both sides of Rio Amarillo. **latitude:** 28 deg. 57 min.. **longitude:** 67 deg. 47 min.. **elevation:** 3160m. **remarks:** Growing among cow dung, growing with *Adesmia cytisoides*, *Senecio sectilis*. Mostly leaves withered away, mature fruits laying on ground, plants common in area. Wild. Seed.
- PI 558156 **origin:** Argentina. **collected:** April 07, 1990. **collector id:** SC1 4595. **locality:** Famatina. 2 km S of La Encricijada, 8.6 km S of Mina La Mejicana. **latitude:** 28 deg. 58 min.. **longitude:** 67 deg. 42 min.. **elevation:** 3330m. Wild. Seed.
- PI 558157 **origin:** Argentina. **collected:** 1990. **collector id:** SC1 4596. **locality:** About 1.5 km downhill of km 25, below La Cuesta Amarillo E side of Rio Amarillo. **latitude:** 28 deg. 58 min.. **longitude:** 67 deg. 42 min.. **elevation:** 3500m. **remarks:** Plants almost dead, berries mature, plants growing among rocks. Wild. Seed.
- PI 558158 **origin:** Argentina. **collected:** April 07, 1990. **collector id:** SC1 4597. **locality:** Chilecito. 0.3 km downhill of km 25, at La Cuesta Amarilla, on E side of Rio Amarillo. **latitude:** 28 deg. 59 min.. **longitude:** 67 deg. 43 min.. **elevation:** 3610m. **remarks:** plants almost dead, growing in shallow rocky soil by road- side. Highest elevation this plant was encountered in area. Wild. Seed.
- PI 558159 **origin:** Argentina. **collected:** April 08, 1990. **collector id:** SC1 4598. **locality:** Famatina. At Cuevas de Norona, along Corrales-Mina La Mejicana road. **latitude:** 28 deg. 55 min.. **longitude:** 67 deg. 40 min.. **elevation:** 2800m. **remarks:** Growing among cow dung with *Mutisia kurtzii*, *Senecio rudbeckiaefolius*, *Stipa*, *Salvia*. Plants rare here, leaves withered, only mature fruits found on ground; resident of caves says he eats the fruit as they are very sweet. Wild. Seed.

PI 558160 to 558182. *Solanum brevidens* Philippi SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula-Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

- PI 558160 **origin:** Argentina. **collected:** February 19, 1990.
collector id: SCl 4517. **locality:** Huiliches. On both sides of dirt road, on N side of Lago Huechulafquen, 12.7 km E of gendarmeria post of W end of lake. **latitude:** 39 deg. 45 min.. **longitude:** 71 deg. 20 min.. **elevation:** 1020m. **remarks:** In deep organic soil, with *Aravcaria aravcana*, *Berberis*, *Nothofagus*, *Coniom maculatum*, by stream. Petals sky blue. Wild. Seed.
- PI 558161 **origin:** Argentina. **collected:** February 19, 1990.
collector id: SCl 4518. **locality:** Huiliches. On S side of road, N side of Lago Huechulafquen Huechulafquen, 22.3 km E of gendarmeria post on W end of lake. **latitude:** 39 deg. 45 min.. **longitude:** 71 deg. 16 min.. **elevation:** 1020m. **remarks:** In deep organic soil, with *Fuchsia magellanica*, *Nothofagus*, *Chusquea*; by stream. Flowers absent. Wild. Seed.
- PI 558162 **origin:** Argentina. **collected:** February 20, 1990.
collector id: SCl 4519. **locality:** Huiliches. On dirt road on N side of Lago Lacar, on way to Hua-Hum, 24.5 km W of route 234, just N of San Martin de Los Andes. **latitude:** 40 deg. 08 min.. **longitude:** 71 deg. 31 min.. **elevation:** 915m. **remarks:** Roadside, near drainage ditch, under *Nothofagus*, *Chusquea*, *Prunella vulgaris*. Flowers gone. Wild. Seed.
- PI 558163 **origin:** Argentina. **collected:** February 20, 1990.
collector id: SCl 4520. **locality:** On dirt road on N side of Lago Lacar, on way to Hua-Hum, 28.2 km W of route 234 just N of San Martin de Los Andes. **latitude:** 40 deg. 08 min.. **longitude:** 71 deg. 33 min.. **elevation:** 790m. **remarks:** Roadside, near drainage ditch, with *Nothofagus*, *Chusquea*, *Alstroemeria ligtu*, *Sonchus*. Flowers gone. Wild. Seed.
- PI 558164 **origin:** Argentina. **collected:** February 20, 1990.
collector id: SCl 4521. **locality:** On N side of dirt road on NE side of Lago Monthue 42 km W of route 234, 7.9 km W of Arroyo Quechequina, on route 234 just N of San Martin de Los Andes, 2.7 km E of aduana station. **latitude:** 40 deg. 07 min.. **longitude:** 71 deg. 38 min.. **elevation:** 700m. **remarks:** Wet ditch with *Chusquea*, *Fuchsia magellanica*, *Nothofagus*, *Phalaris arundinacea*. Plants dispersing fruits and dropping leaves. Wild. Seed.

PI 558160 to 558182-continued

- PI 558165 **origin:** Argentina. **collected:** February 20, 1990.
collector id: SC1 4522. **locality:** In stream just above waterfall at quila quina, on S side of Lago Lacar, SW of San Martin de Los Andes. **latitude:** 40 deg. 11 min.. **longitude:** 71 deg. 27 min.. **elevation:** 730m. **remarks:** In sandy soil among boulders. Fruits dispersing, flowers absent. Wild. Seed.
- PI 558166 **origin:** Argentina. **collected:** February 21, 1990.
collector id: SC1 4524. **locality:** On S side of Lago Currhue, 25.9 km W of junction of road on S side of this lake to Chile border at Puerto Cararrine and road to San Martin de Los Andes. **latitude:** 39 deg. 51 min.. **longitude:** 71 deg. 29 min.. **elevation:** 1100m. **remarks:** In arroyo on both sides of rd; with Nothofagus, Chusquea, Fuschia maglenica. Plants in flower, with young and mature fruits present. Wild. Seed.
- PI 558167 **origin:** Argentina. **collected:** February 21, 1990.
collector id: SC1 4525. **locality:** On S side of Lago Curruhue, 27.0 km W of junction of road on S side of this lake to Chile border at Puerto Cararrine and road to San Martin de Los Andes. **latitude:** 39 deg. 51 min.. **longitude:** 71 deg. 30 min.. **elevation:** 1070m. **remarks:** In loamy soil, mature Nothofagus forest by roadside, with Chusquea. Plants out of flower; fruits maturing to mature. Wild. Seed.
- PI 558168 **origin:** Argentina. **collected:** February 21, 1990.
collector id: SC1 4526. **locality:** On S side of road to Lago Curruhue, 30.7 km W of junction of road on S side of lake, to Chile border at Puerto Cararrine and road to San Martin de Los Andes. **latitude:** 39 deg. 51 min.. **longitude:** 71 deg. 33 min.. **elevation:** 1060m. **remarks:** In loamy soil of road cut by side of road, in Nothofagus forest, with Chusquea. Flowers gone, fruits maturing to mature. Wild. Seed.
- PI 558169 **origin:** Argentina. **collected:** February 21, 1990.
collector id: SC1 4527. **locality:** On N side of Laguna Verde, on road to Puerto de Carirrine at Chile border, 1.8 km past road on W end Lago Curruhue that divides to Campground and Chile border. **latitude:** 39 deg. 50 min.. **longitude:** 71 deg. 34 min.. **elevation:** 1040m. **remarks:** By stream cut on S side of road in disturbed loamy soil, in Nothofagus forest, with Chusquea. Flowers, maturing fruits and mature fruit present. Wild. Seed.

PI 558160 to 558182-continued

- PI 558170 **origin:** Argentina. **collected:** February 21, 1990.
collector id: SC1 4528. **locality:** On S side of Laguna Epulafquen, on road to Puerto Carirrine at Chile border, 11.6 km past road on W end of Lago Curruhue that divides to campground and Chile border road. **latitude:** 39 deg. 49 min.. **longitude:** 71 deg. 37 min.. **elevation:** 950m. **remarks:** In small arroyo with stream that goes under road, with Nothofagus, Chusquea, Fuschia magellanica. Wild. Seed.
- PI 558171 **origin:** Argentina. **collected:** February 22, 1990.
collector id: SC1 4529. **locality:** Along route 65, 2.5 km E of route 234. **latitude:** 40 deg. 37 min.. **longitude:** 71 deg. 37 min.. **elevation:** 840m. **remarks:** In Nothofagus and Chasquea forest, on rotting log. Many other immature plants in area. Wild. Seed.
- PI 558172 **origin:** Argentina. **collected:** February 22, 1990.
collector id: SC1 4530. **locality:** Along route 65, S of Lago Traful, 24.8 km E of Route 234, 0.4 km W of Villa Trafol. **latitude:** 40 deg. 39 min.. **longitude:** 71 deg. 24 min.. **elevation:** 780m. **remarks:** In mature Nothofagus forest, in a heavily grazed area, in deep organic soils. Flowers and maturing fruits present. Wild. Seed.
- PI 558173 **origin:** Argentina. **collected:** February 23, 1990.
collector id: SC1 4531. **locality:** On an abandoned road just W of route 231, 2.5 km S of Ruca Malen. **latitude:** 40 deg. 47 min.. **longitude:** 72 deg. 37 min.. **elevation:** 770m. **remarks:** Roadside, deep loamy soil, in mature Nothofagus forest, with Chusquea. Flowers and young fruits present. Wild. Seed.
- PI 558174 **origin:** Argentina. **collected:** February 23, 1990.
collector id: SC1 4533. **locality:** Lagos. On NE side of route 231, 4.7 km SE of junction of road to Chile to Puerto Puyehue. **latitude:** 40 deg. 43 min.. **longitude:** 71 deg. 42 min.. **elevation:** 675m. **remarks:** In loamy soil with Chusquea, by roadcut. Flowers maturing to mature, fruits present. Wild. Seed.
- PI 558175 **origin:** Argentina. **collected:** February 23, 1990.
collector id: SC1 4534. **locality:** Lagos. On N end of Peninsula Quettrihue, just S of Villa la Angostura, ca. 1 km S of entrance to park, along old road. **latitude:** 40 deg. 47 min.. **longitude:** 71 deg. 40 min.. **elevation:** 750m. **remarks:** In loamy soil by roadcut, in mature Nothofagus forest. Maturing and mature fruits present. Wild. Seed.

PI 558160 to 558182-continued

- PI 558176 **origin:** Argentina. **collected:** February 23, 1990.
collector id: SC1 4535. **locality:** Lagos. Along route 231, 8.2 km NW of Arroyo de la Estacada, just NW of Puerto Manzano, SE of Villa La Angostura. **latitude:** 40 deg. 48 min.. **longitude:** 71 deg. 37 min.. **elevation:** 730m. **remarks:** Growing on fallen rotten Nothofagus trunks in shaded Nothofagus forest. Flowers gone, fruits maturing to matured. Wild. Seed.
- PI 558177 **origin:** Argentina. **collected:** February 23, 1990.
collector id: SC1 4536. **locality:** Lagos. Along route 231, 5.7 km NW of Arroyo de la Estacada, just SE of Puerto Manzano, SE of Villa La Angostura. **latitude:** 40 deg. 49 min.. **longitude:** 71 deg. 35 min.. **elevation:** 675m. **remarks:** In loamy soil among branches of fallen tree, in clearing by road in area of mature Nothofagus forest. Flowers maturing and mature fruits present. Wild. Seed.
- PI 558178 **origin:** Argentina. **collected:** February 23, 1990.
collector id: SC1 4537. **locality:** Lagos. Along route 231, 7.1 km NW of Arroyo de la Estacada, by Puerto Manzano, SE of Villa La Angostura. **latitude:** 40 deg. 48 min.. **longitude:** 71 deg. 37 min.. **elevation:** 685m. **remarks:** Among fallen logs in cleared area by road, in loamy soil, in area of mature Nothofagus forest. Flowers and maturing fruits present. Wild. Seed.
- PI 558179 **origin:** Argentina. **collected:** February 24, 1990.
collector id: SC1 4538. **locality:** Lagos. On NE side of route 231, 1.6 km SE of Arroyo de la Estacada, SE of Villa La Angostura. **latitude:** 40 deg. 51 min.. **longitude:** 71 deg. 33 min.. **elevation:** 700m. **remarks:** In partially logged and heavily grazed arroyo in Nothofagus forest, in deep loamy soil. Maturing and mature fruits present. Wild. Seed.
- PI 558180 **origin:** Argentina. **collected:** February 24, 1990.
collector id: SC1 4539. **locality:** Lagos. On NE side of route 231, 1.4 km SE of Arroyo de la Estacada, SE of Villa La Angostura. **latitude:** 40 deg. 51 min.. **longitude:** 71 deg. 33 min.. **elevation:** 710m. **remarks:** In partially logged and heavily grazed arroyo, in Nothofagus forest, in deep loamy soil in Nothofagus forest area. Maturing to mature fruits present. Wild. Seed.

PI 558160 to 558182-continued

PI 558181 **origin:** Argentina. **collected:** February 24, 1990.
collector id: SCl 4540. **locality:** Lagos. On NE side of
route 231, 3.9 km SE of Arroyo de la Estacada, SE of
Villa la Angostura. **latitude:** 40 deg. 51 min..
longitude: 71 deg. 32 min.. **elevation:** 680m. **remarks:**
In arroyo on side of road, open sun, deep loamy soil
growing with Berberis, Fuschia magellanica, Rosa, in
Nothofagus woods. Maturing and mature fruits present.
Wild. Seed.

PI 558182 **origin:** Argentina. **collected:** February 24, 1990.
collector id: SCl 4541. **locality:** Lagos. On NE side of
route 231, 8.1 km SE of Arroyo de la Estacada, SE of
Villa la Angostura. **latitude:** 40 deg. 52 min..
longitude: 71 deg. 30 min.. **elevation:** 680m. **remarks:**
In open sun in arroyo, in deep loamy soil, in Nothofagus
forest area. Wild. Seed.

PI 558183 to 558184. *Solanum chacoense* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula
Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

PI 558183 **origin:** Argentina. **collected:** February 04, 1990.
collector id: SCl 4499. **locality:** On E side
of Route 11, 0.5 km N of junction of this route and route
36, S of Punta Piedras. **latitude:** 35 deg. 50 min..
longitude: 57 deg. 10 min.. **elevation:** 5m. **remarks:**
Flowers creamy-white, fruits absent. Wild. Tuber.

PI 558184 **origin:** Argentina. **collected:** April 06, 1990. **collector**
id: SCl 4585. **locality:** Chilecito. SW floodplain of Rio
Amarillo, at Las Higueras, 16.6 km NW of town square of
Chilecito. **latitude:** 29 deg. 08 min.. **longitude:** 67
deg. 38 min.. **elevation:** 1620m. **remarks:** Under shade of
walnut plantation. Plant abundnat in area, flowers gone,
fruits abundant. Wild. Seed.

PI 558185 to 558208. *Solanum kurtzianum* Bitter & Wittm. SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula
Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

PI 558185 to 558208-continued

- PI 558185 **origin:** Argentina. **collected:** February 09, 1990. **collector id:** SC1 4504. **locality:** Las Heras. On a dirt road 8 km E of junction of road to Villavicencio, on way to Quebrada de Las Higueras; road begins 11.5 km SE of Villavicencio. **latitude:** 32 deg. 36 min.. **longitude:** 68 deg. 52 min.. **elevation:** 1180m. **remarks:** Growing in sandy and rocky soil among Opuntia, in area of Larrea divaricata; area recently burned. Flowers white, sometimes streaked with blue below; fruits absent. Wild. Tuber.
- PI 558186 **origin:** Argentina. **collected:** February 09, 1990. **collector id:** SC1 4505. **locality:** Las Heras. Near dirt road, 10 km E of junction of road to Villavicencio, on way to Quebrada de Las Higueras; road begins 11.5 km SE of Villavicencio. **latitude:** 32 deg. 34 min.. **longitude:** 68 deg. 52 min.. **elevation:** 1185m. **remarks:** In recently excavated soil. Flowers white, sometimes streaked with blue below; fruits absent. Wild. Tuber.
- PI 558187 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4544. **locality:** Las Heras. 0.3 km NE of road which begins 9.6 km SE of Villavicencio, and loops to the N of this site. **latitude:** 32 deg. 33 min.. **longitude:** 68 deg. 58 min.. **elevation:** 680m. **remarks:** Edge of dry wash in Larrea desert. Flowers with petals white, fruits maturing to mature. Wild. Seed.
- PI 558188 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4545. **locality:** Las Heras. 1.8 km NE of road which begins 9.6 km SE of Villavicencio, and loops to the N of this site. **latitude:** 32 deg. 32 min.. **longitude:** 68 deg. 57 min.. **elevation:** 700m. **remarks:** Among Larrea bushes. Plants common, flowers with petals white above, sometimes streaked with blue below, fruits maturing to mature. Wild. Seed.
- PI 558189 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4546. **locality:** Las Heras. 10.3 km NE of road which begins 9.6 km SE of Villavicencio, and loops to the N of this site. **latitude:** 32 deg. 28 min.. **longitude:** 68 deg. 56 min.. **elevation:** 1480m. **remarks:** In Larrea desert with Schinus roigii. Flowers with petals white above, sometimes streaked with blue below, fruits maturing to mature. Wild. Seed.

- PI 558190 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4547. **locality:** Las Heras. 12.1 km NE of road which begins 9.6 km SE of Villavicencio, and loops to the N of this site. **latitude:** 32 deg. 27 min.. **longitude:** 68 deg. 55 min.. **elevation:** 1600m. **remarks:** In Larrea desert. Flowers with petals white, sometimes streaked with blue below, fruits maturing to mature. Wild. Seed.
- PI 558191 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4548. **locality:** Las Heras. Pampa del Lenador, on dirt road 13.9 km N of road which begins 9.6 km SE of Villavicencio, 0.7 km N of junction of 2 dirt roads on the easternmost dirt road. **latitude:** 32 deg. 26 min.. **longitude:** 68 deg. 56 min.. **elevation:** 1600m. **remarks:** Petals white above, white streaked with blue below. In moist, sandy, rocky soil of shallow wash across the road, growing under Larrea divaricata, Schinus, Berberis, grasses. Wild. Seed.
- PI 558192 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4549. **locality:** Las Heras. Pampa del Lenador, on dirt road 15.5 km N of junction of road to Villavicencio, which begins 9.6 km SE of Villavicencio, 1.6 km N of junction of 2 dirt roads, on the easternmost dirt road. **latitude:** 32 deg. 25 min.. **longitude:** 68 deg. 57 min.. **elevation:** 1660m. **remarks:** Petals white above, white or streaked with blue below. In moist, sandy, rocky soil of shallow wash across the road, growing under Larrea divancata, Schinas, Berberis; grasses. Wild. Seed.
- PI 558193 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4550. **locality:** Las Heras. On dirt road to Quebrada del Toro, 16.3 km N of junction of road which begins 9.6 km SE of Villavicencio, 3.1 km N of junction of two dirt roads, on the westernmost road. **latitude:** 32 deg. 26 min.. **longitude:** 68 deg. 58 min.. **elevation:** 1770m. **remarks:** Under Larrea divaricata, along sides of a small arroyo. Petals white above, white or streaked with blue below. Wild. Seed.
- PI 558194 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4551. **locality:** Las Heras. On the loop road N of Villavicencio, which begins 9.6 km SE of Villavicencio, 21.8 km N and then W of this road, 8.6 km NW of junction of 2 dirt roads. **latitude:** 32 deg. 27 min.. **longitude:** 68 deg. 59 min.. **elevation:** 2050m. **remarks:** In Larrea desert, with Berberis, Stipa. Flowers with petals white above, sometimes streaked with blue below, fruits maturing. Wild. Seed.

PI 558185 to 558208-continued

- PI 558195 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4552. **locality:** Las Heras. On loop road N of Villavicencio, 6.2 km NW of Villavicencio. **latitude:** 32 deg. 32 min.. **longitude:** 69 deg. 02 min.. **elevation:** 2330m. **remarks:** Larrea desert, on dry hillside. Flowers white above, sometimes streaked with blue below, fruits maturing. Wild. Seed.
- PI 558196 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4553. **locality:** Las Heras. 2.1 km S of Villavicencio. **latitude:** 32 deg. 32 min.. **longitude:** 68 deg. 59 min.. **elevation:** 1730m. **remarks:** Larrea desert, on dry hillside. Plants with petals white above, sometimes streaked with blue below, fruits maturing. Wild. Seed.
- PI 558197 **origin:** Argentina. **collected:** March 28, 1990. **collector id:** SC1 4554. **locality:** Las Heras. 13 km S of Villavicencio. **latitude:** 32 deg. 37 min.. **longitude:** 68 deg. 55 min.. **elevation:** 1200m. **remarks:** Larrea desert. Flowers with petals white above, sometimes streaked with blue below, fruits maturing. Wild. Seed.
- PI 558198 **origin:** Argentina. **collected:** March 30, 1990. **collector id:** SC1 4555. **locality:** Las Heras. El Challado, just W of Las Heras, just NW of Mendoza. **latitude:** 32 deg. 47 min.. **longitude:** 69 deg. 02 min.. **elevation:** 1115m. **remarks:** Growing under Larrea divanriata. Flowers and fruits absent. Wild. Seed.
- PI 558199 **origin:** Argentina. **collected:** March 30, 1990. **collector id:** SC1 4560. **locality:** Las Heras. On dirt road to San Isidro (just NW of Mendoza), 0.5 km from road to Mendoza to Cerro la Gloria on road to San Isidro. **latitude:** 32 deg. 47 min.. **longitude:** 69 deg. 03 min.. **elevation:** 1005m. **remarks:** Growing with Opuntia, Larrea cuneifolia, in sandy and stony soil. Petals white, fruits maturing to mature. Wild. Seed.
- PI 558200 **origin:** Argentina. **collected:** March 30, 1990. **collector id:** SC1 4561. **locality:** Las Heras. 0.1 km upstream of creek bed, off of dirt road to San Isidro (just NW of Mendoza); the creek bed and road junction is 4.8 km from road from Mendoza onto Cerro La Gloria on road to Cerro San Isidro. **latitude:** 32 deg. 44 min.. **longitude:** 69 deg. 03 min.. **elevation:** 1330m. **remarks:** Growing under Schinus bushes in sandy soil. Flowers white above, sometimes streaked with blue below. Wild. Seed.

- PI 558201 **origin:** Argentina. **collected:** March 30, 1990. **collector id:** SC1 4562. **locality:** Las Heras. Behind the statue of Virgen de Lourdes, on SE side of Route 7, in Cacheuta. **latitude:** 33 deg. 01 min.. **longitude:** 69 deg. 06 min.. **elevation:** 1270m. **remarks:** Growing among Cercidum australe, Opuntia. Petals white, fruits maturing, 5 plants present. Wild. Seed.
- PI 558202 **origin:** Argentina. **collected:** April 03, 1990. **collector id:** SC1 4568. **locality:** Chilecito. At Los Bordos, S of Los Manzanos, N of Sanogasta. **latitude:** 29 deg. 15 min.. **longitude:** 67 deg. 39 min.. **elevation:** 1800m. **remarks:** Growing with Colletia paradoxa, Schinus, Aloysia triphylla, Zaluzania, Zinnia peruviana. Hundreds of non-flowering plants seen, only five flowering plants seen. After 3 hours collecting only 14 tubers, 13 fruits found. Tubers white. Also collected as tubers. Wild. Seed.
- PI 558203 **origin:** Argentina. **collected:** April 03, 1990. **collector id:** SC1 4570. **locality:** Chilecito. At Los Nogales, 1.3 km W of Los Bordos S of Los Manzanos, N of Sanogasta. **latitude:** 29 deg. 15 min.. **longitude:** 67 deg. 40 min.. **elevation:** 1760m. **remarks:** Growing among rocks in enclosed old garden. Petals white, fruits maturing to mature, interjected leaflets present or absent on different leaves of individual plants. Also collected as tubers. Wild. Seed.
- PI 558204 **origin:** Argentina. **collected:** April 04, 1990. **collector id:** SC1 4571. **locality:** Chilecito. Los Manzanos, N of Sanogasta. **latitude:** 29 deg. 13 min.. **longitude:** 67 deg. 39 min.. **elevation:** 1820m. **remarks:** Near stream flowing out of Quebrada Los Manzanos, growing among bushes among stones. Flowers with white petals, most plants without flowers or fruits, some mature fruits present. Wild. Seed.
- PI 558205 **origin:** Argentina. **collected:** April 04, 1990. **collector id:** SC1 4573. **locality:** Chilecito. 1 km N of Los manzanos, N of Sanogast. **latitude:** 29 deg. 12 min.. **longitude:** 67 deg. 39 min.. **elevation:** 1880m. **remarks:** On floodplain of stream flowing out of Quebrada Los Manzanos, growing among bushes in sandy, stony soil. No flowers of fruits present, tubers white. Wild. Tuber.

PI 558185 to 558208-continued

PI 558206 **origin:** Argentina. **collected:** April 04, 1990. **collector id:** SCl 4575. **locality:** Chilecito. At Finca de Villegas, town of Guanchin, on W side of road. **latitude:** 29 deg. 12 min.. **longitude:** 67 deg. 38 min.. **elevation:** 1670m. **remarks:** Among Acacia caven and other spiny bushes. Petals white, sometimes streaked with blue behind, flowers and fruits very rare, tubers white. Also collected as tubers. Wild. Seed.

PI 558207 **origin:** Argentina. **collected:** April 04, 1990. **collector id:** SCl 4576. **locality:** Chilecito. On road to Guanchin Viejo, 1 km from church at intersection of road to Guanchin and Los Manzanos. **latitude:** 29 deg. 11 min.. **longitude:** 67 deg. 38 min.. **elevation:** 1680m. **remarks:** Growing under Schinus, with Acacia caven, Zaluzania. No flowers or fruits seen, plants very rare here. Wild. Tuber.

PI 558208 **origin:** Argentina. **collected:** April 05, 1990. **collector id:** SCl 4578. **locality:** Chilecito. 2 km S of Guanchin Viejo, 3 km NW of Guanchin, near roadside, on SW side of road. **latitude:** 29 deg. 10 min.. **longitude:** 67 deg. 39 min.. **elevation:** 1790m. **remarks:** In moist clay soil, growing among grasses, Bidens. Flowers and fruits absent, tubers white. Wild. Tuber.

PI 558209 to 558212. Solanum microdontum Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

PI 558209 **origin:** Argentina. **collected:** April 10, 1990. **collector id:** SCl 4610. **locality:** Andalgalá. 9.3 km S of Province of Tucuman border on road to Buena Vista. **latitude:** 27 deg. 22 min.. **longitude:** 65 deg. 58 min.. **elevation:** 1750m. **remarks:** Shaded roadside in moist soil. Growing with Alnus, Buddlejia, Bidens, Bigonia, Oxalis, Duchesnea, Adiantum, Juncus. Ten plants seen. Flowers gone, fruits mature. Wild. Seed.

PI 558210 **origin:** Argentina. **collected:** April 10, 1990. **collector id:** SCl 4611. **locality:** Andalgalá. 7.4 km S of Province of Tucuman border on road to Buena Vista. **latitude:** 27 deg. 21 min.. **longitude:** 65 deg. 58 min.. **elevation:** 1820m. **remarks:** In shaded area by roadside, in moist soil, growing with Alnus, Bidens, Polylepis, Duchesnea, Juncus, Rumex, Begonia. Plant common, flowers gone, fruits mature. Wild. Seed.

PI 558209 to 558212-continued

PI 558211 **origin:** Argentina. **collected:** April 10, 1990. **collector id:** SC1 4612. **locality:** Andalgalá. 100 m off roadside, 5.1 km S of Province of Tucuman border on road to Buena Vista. **latitude:** 27 deg. 21 min.. **longitude:** 65 deg. 58 min.. **elevation:** 1900m. **remarks:** In shaded Alnus forest, with Bidens, Duchnesea, Begonia, Juncus, ferns. Plants common, flowers gone and fruits mature. Wild. Seed.

PI 558212 **origin:** Argentina. **collected:** April 10, 1990. **collector id:** SC1 4614. **locality:** Chicligasta. 10 m N of Province of Catamarca border, behind stone altitude marker next to road, on road from Aconguija to Concepcion. **latitude:** 27 deg. 20 min.. **longitude:** 65 deg. 57 min.. **elevation:** 1846m. **remarks:** Shaded area by roadside in moist soil. Wild. Seed.

PI 558213 to 558219. *Solanum microdontum* subsp. *gigantophyllum* (Bitter) Hawkes & Hjert. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

PI 558213 **origin:** Argentina. **collected:** April 05, 1990. **collector id:** SC1 4583. **locality:** Chilecito. On road from Chilecito to El Vallecito, 10.2 km NW of town square of Chilecito, 2.2 km NW of Santa Florentina school yard. **latitude:** 29 deg. 08 min.. **longitude:** 67 deg. 37 min.. **elevation:** 1520m. **remarks:** In sandy, mucky soil by drainage ditch on roadside, with Acacia caven, Nicotiana glauca, Stipa, Bidens. No flowers or fruits seen, tubers white, not pink as in all other populations seen in area. Wild. Tuber.

PI 558214 **origin:** Argentina. **collected:** April 11, 1990. **collector id:** SC1 4615. **locality:** Andalgalá. At Arroyo de Casa de Piedra, an arroyo N of Rio Chacras, NW of Yunka Suma, which is on the NW corner of the Rio Chacras intersection with the Buena Vista - Concepcion Road. **latitude:** 27 deg. 21 min.. **longitude:** 66 deg. 00 min.. **elevation:** 2000m. **remarks:** In moist organic soil under Alnus. Flowers gone, one fruit found. Also collected as tubers. Wild. Seed.

PI 558213 to 558219-continued

- PI 558215 **origin:** Argentina. **collected:** April 11, 1990. **collector id:** SCl 4617. **locality:** Andalgala. At quebrada del Quenoal, a quebrada N of Rio Chacras, NW of Yunka Suma, which is on the NW corner of the Rio Chacras intersection with Buena Vista - Concepcion road. **latitude:** 27 deg. 20 min.. **longitude:** 66 deg. 01 min.. **elevation:** 2505m. **remarks:** Growing in moist organic soil under *Polylepis australis*, *Alnus*. Flowers gone, fruits rare. Wild. Seed.
- PI 558216 **origin:** Argentina. **collected:** April 12, 1990. **collector id:** SCl 4629. **locality:** Andalgala. E of Rio El Campo, 2.7 km N of bridge crossing beginning just N of Las Rosas, where stream crosses road, one plant each collected on both sides of road. **latitude:** 27 deg. 26 min.. **longitude:** 65 deg. 59 min.. **elevation:** 1650m. **remarks:** Streamside and shaded woods (*Alnus* woods). No flowers or fruits seen. Wild. Tuber.
- PI 558217 **origin:** Argentina. **collected:** April 13, 1990. **collector id:** SCl 4630. **locality:** Andalgala. El Chorro, Estancia El Chueque, S of Rio Vallecito. **latitude:** 27 deg. 19 min.. **longitude:** 66 deg. 02 min.. **elevation:** 2310m. **remarks:** In moist organic soil in shade of *Alnus acuminata*, with grasses. No flowers present, fruits hard to find. Wild. Seed.
- PI 558218 **origin:** Argentina. **collected:** April 13, 1990. **collector id:** SCl 4632. **locality:** Andalgala. La Banda de la Mesa de piedra, Estancia La Chueque, S of Rio Vallecito. **latitude:** 27 deg. 19 min.. **longitude:** 66 deg. 02 min.. **elevation:** 2505m. **remarks:** Growing in moist organic soil, under shade of *Alnus acuminata*, with grasses. No flowers or fruits present. Wild. Tuber.
- PI 558219 **origin:** Argentina. **collected:** April 13, 1990. **collector id:** SCl 4633. **locality:** Andalgala. El Vallecito, Estancia La Chueque, S of Rio Vallecito. **latitude:** 27 deg. 19 min.. **longitude:** 66 deg. 03 min.. **elevation:** 2030m. **remarks:** Growing in moist organic soil under shade of *Alnus acuminata*, with grasses. Wild. Seed.

PI 558220 to 558222. *Solanum spegazzinii* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

PI 558220 to 558222-continued

PI 558220 **origin:** Argentina. **collected:** April 08, 1990. **collector id:** SC1 4599. **locality:** Famatina. On side of Rio Los Berros, at Los Berros (where stream crosses Corralles-Mina La mejicana road). **latitude:** 28 deg. 51 min.. **longitude:** 67 deg. 40 min.. **elevation:** 2665m. **remarks:** Growing among rocks in stream small trees, with Nasturtium. Plants to 1.5 m tall, no flowers or fruits seen, tubers white when young, turning pink to purple when mature, with white warts, mature tubers up to 5.5 cm in diameter. Wild. Tuber.

PI 558221 **origin:** Argentina. **collected:** April 09, 1990. **collector id:** SC1 4607. **locality:** Belen. 16.6 km W of route 40, at Pozo de Piedra, 2 km E of municipal building, on N side of road. **latitude:** 27 deg. 34 min.. **longitude:** 67 deg. 08 min.. **elevation:** 1830m. **remarks:** No flowers or fruits seen, tubers white when young, pink when older. Wild. Tuber.

PI 558222 **origin:** Argentina. **collected:** April 09, 1990. **collector id:** SC1 4609. **locality:** Belen. 1.6 km W of Pozo de Piedra Municipal building on road diverting off main road following Rio Pozo de Piedra. **latitude:** 27 deg. 33 min.. **longitude:** 67 deg. 11 min.. **elevation:** 1850m. **remarks:** Growing on a pile of sandy soil by roadside in full sun. Flowers gone. Also collected as tubers. Wild. Seed.

PI 558223 to 558224. *Solanum venturii* Hawkes & Hjert. SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

PI 558223 **origin:** Argentina. **collected:** April 11, 1990. **collector id:** SC1 4616. **locality:** Catamarca. At Casa de Piedra, NW of Yunka Suma, which is on the NW corner of the Rio Chacras intersection with Buena Vista - Concepcion road. **latitude:** 27 deg. 21 min.. **longitude:** 66 deg. 00 min.. **elevation:** 2140m. **remarks:** In moist organic soil under Alnus. No flowers, fruit, or tubers located, only two plants found. No flowers, fruits, or tubers located, only two plants found. Wild.

PI 558223 to 558224-continued

PI 558224 **origin:** Argentina. **collected:** April 11, 1990. **collector id:** SC1 4618. **locality:** Andalgalá. At Quebrada de Quenoal, a Quebrada N of Rio Chacras, NW of Yunka Suma, which is on the NW corner of the Rio Chacras intersection with Buena Vista - Concepcion road. **latitude:** 27 deg. 20 min.. **longitude:** 66 deg. 01 min.. **elevation:** 2505m. **remarks:** Growing in moist organic soil under *Polylepis australis*, *Alnus* Also collected as tubers. Wild. Seed.

PI 558225 to 558226. *Solanum vernei* Bitter & Wittm. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

PI 558225 **origin:** Argentina. **collected:** April 11, 1990. **collector id:** SC1 4619. **locality:** Andalgalá. At cuesta de la Loma Atravesada, N of Rio Chacras, NW of Yunka Suma, which is on the NW corner of the Rio Chacras intersection with the Buena Vista - Concepcion road. **latitude:** 27 deg. 20 min.. **longitude:** 66 deg. 01 min.. **elevation:** 2350m. **remarks:** Moist, organic soil under *Alnus*, *Polylepis australis*, with *Rumex crispus*, *Geranium dissectum*, *Siegesbeckia jorullensis*. Flowers gone, tubers with yellow skin and light yellow flesh. Wild. Tuber.

PI 558226 **origin:** Argentina. **collected:** April 11, 1990. **collector id:** SC1 4620. **locality:** Andalgalá. At Cuesta de Loma Atravesada, N of Rio Chacras, NW of Yunka Suma, which is on the NW corner of the Rio Chacras intersection with the Buena Vista - Concepcion road. **latitude:** 27 deg. 20 min.. **longitude:** 66 deg. 01 min.. **elevation:** 2200-2230mm. **remarks:** Tubers orange, found detached from plants, along horsepath, no plants seen in immediate vicinity, 15 tubers collected Between about 500 m length of path. Wild. Tuber.

PI 558227 to 558232. *Solanum x rechei* Hawkes & Hjert. SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received January 10, 1991.

- PI 558227 **origin:** Argentina. **collected:** April 04, 1990. **collector id:** SC1 4572. **locality:** Chilecito. Los Manzanos, N of Sanogasta. **latitude:** 29 deg. 13 min.. **longitude:** 67 deg. 39 min.. **elevation:** 1820m. **remarks:** Near stream flowing out of Quebrada Los Manzanos, in rich organic sandy soil. Most plants without flowers, one plant found with flowers with white petals, tubers pink. Wild. Tuber.
- PI 558228 **origin:** Argentina. **collected:** April 04, 1990. **collector id:** SC1 4574. **locality:** Chilecito. 1 km N of Los Manzanos, N of Sanogasta. **latitude:** 29 deg. 12 min.. **longitude:** 67 deg. 39 min.. **elevation:** 1880m. **remarks:** On floodplain of stream flowing out of Quebrada Los Manzanos. Growing among bushes in moist red clay soil. No flowers or fruits present, tubers pink. Wild. Tuber.
- PI 558229 **origin:** Argentina. **collected:** April 04, 1990. **collector id:** SC1 4577. **locality:** Chilecito. 2 km S of Guanchin Viejo, 3 km NW of Guanchin, near roadside, on SW side. **latitude:** 29 deg. 10 min.. **longitude:** 67 deg. 39 min.. **elevation:** 1790m. **remarks:** In rich, moist, organic soil, growing with Mentha, grasses, by Juglans regia plantation. Flowers gone, said by landowner to have white petals, tuberspink outside and streaked pink inside or white outside. Also collected as tubers. Wild. Seed.
- PI 558230 **origin:** Argentina. **collected:** April 05, 1990. **collector id:** SC1 4579. **locality:** Chilecito. At Guanchin Viejo, by fence row near where road crosses stream. **latitude:** 29 deg. 09 min.. **longitude:** 67 deg. 40 min.. **elevation:** 1820m. **remarks:** In rich organic soil. No flowers of fruits seen, tubers pink. Wild. Tuber.
- PI 558231 **origin:** Argentina. **collected:** April 05, 1990. **collector id:** SC1 4581. **locality:** Chilecito. In old walnut plantation planted by Jesuits, in Quebrada de Los Ciruelos, 1 km upstream of Cuanchin Viejo. **latitude:** 29 deg. 09 min.. **longitude:** 67 deg. 40 min.. **elevation:** 1840m. **remarks:** In pastured fields under low bushes. No flowers seen, tubers white. Wild. Tuber.
- PI 558232 **origin:** Argentina. **collected:** April 05, 1990. **collector id:** SC1 4582. **locality:** Chilecito. At Guachin Viejo, near where two streams meet, at streamside. **latitude:** 29 deg. 09 min.. **longitude:** 67 deg. 40 min.. **elevation:** 1820m. **remarks:** Among rocks and sandy soil by stream. Flowers and fruit absent, tubers white. Wild. Tuber.

PI 558233 to 558283. *Solanum brevidens* Philippi SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received May 08, 1990.

- PI 558233 **origin:** Chile. **collected:** February 01, 1989. **collector id:** SC 4329. **locality:** Colchagua. 5.7 km E of the intersection of road to Bellavista and road to Termas del Flaco, in shaded canyon on S side of road. **latitude:** 34 deg. 45 min.. **longitude:** 70 deg. 43 min.. **elevation:** 820m. **remarks:** Several plants in small area, with *Rosa Canina*, stems ca. 2 m long. Flowers blue, flecked with white, fruits green, smooth, round. Wild. Seed.
- PI 558234 **origin:** Chile. **collected:** February 10, 1989. **collector id:** SC 4351. **locality:** Bio-Bio. Ca. 3 km SE of Alto Biobio, on N side of Rio Panque, 200 m downstream of bridge (Puente Panque); growing Next to 4850. **latitude:** 37 deg. 54 min.. **longitude:** 71 deg. 36 min.. **elevation:** 430m. **remarks:** Identity of plant in doubt; one plant. Flowers blue, fruit green, round, smooth. Wild. Rhizome.
- PI 558235 **origin:** Chile. **collected:** February 14, 1989. **collector id:** SC 4353. **locality:** Malleco. Below falls at Salto Indio, (where Rio Indio joins Rio Cautin), E of Curacautin. **latitude:** 38 deg. 27 min.. **longitude:** 71 deg. 45 min.. **elevation:** 700m. **remarks:** Two seedlings present. Flowers and fruits absent. Wild. Rhizome.
- PI 558236 **origin:** Chile. **collected:** February 14, 1989. **collector id:** SC 4354. **locality:** Malleco. On N side of rd from Curacautin to Manzanar, 4 km E of Salto Indio (where Rio Indio intersects Rio Cautin). **latitude:** 38 deg. 28 min.. **longitude:** 71 deg. 54 min.. **elevation:** 720m. **remarks:** On steep sloping moist bank, growing with *Fuchsia magellanica*, *Chusquea*, *Aristotelia*, *Rubus ulmifolius*, and ferns. Flowers absent, fruit round, green, and smooth. Wild. Seed.
- PI 558237 **origin:** Chile. **collected:** February 15, 1989. **collector id:** SC 4355. **locality:** Malleco. Just upriver of bridge crossing over this river, 5.5 km S of Curacautin. **latitude:** 38 deg. 27 min.. **longitude:** 71 deg. 51 min.. **elevation:** 480m. **remarks:** In streambank on Rio Curacautin; one seedling on side of river. No fruit present, no flowers present. Wild. Rhizome.

PI 558233 to 558283-continued

- PI 558238 **origin:** Chile. **collected:** February 15, 1989. **collector id:** SC 4356. **locality:** Malleco. In streambank ca. 0.5 km upstream of Puente Blanco, where Curacautin-Lonquimay Rd crosses Rio Calleco, Ca. 5 km E of Curacautin. **latitude:** 38 deg. 27 min.. **longitude:** 71 deg. 50 min.. **elevation:** 630m. **remarks:** One plant present. No fruit or flowers present. Wild. Rhizome.
- PI 558239 **origin:** Chile. **collected:** February 16, 1989. **collector id:** SC 4390. **locality:** Malleco. 13 km W of garabinero (police) station in Icalma. **latitude:** 38 deg. 51 min.. **longitude:** 71 deg. 24 min.. **elevation:** 1170m. **remarks:** In small arroyos among burnt-over trees, growing with Chusquea quila, Fuchsia magellanica, Ribes; abundant in arroyos. Flowers sky blue and white, fruit round. Wild. Seed.
- PI 558240 **origin:** Chile. **collected:** February 16, 1989. **collector id:** SC 4391. **locality:** Cautin. 16 km W of garabineros (police) station in Icalma along streamside on N side of road. **latitude:** 38 deg. 51 min.. **longitude:** 71 deg. 26 min.. **elevation:** 900m. **remarks:** Two plants present, growing on dead tree trunk. Flowers absent, fruit purple and green, round and smooth. Wild. Seed.
- PI 558241 **origin:** Chile. **collected:** February 17, 1989. **collector id:** SC 4392. **locality:** Cautin. Sector Trafun, at Las Vertientes in front of park superintendents house, on path to waterfall, in Parque Nacional Conquillo. **latitude:** 38 deg. 47 min.. **longitude:** 71 deg. 39 min.. **elevation:** 680m. **remarks:** Growing with Fuchsia magellanica, Chusquea chila, Ribes, ferns; five plants present. Flowers absent, fruit green and purple, round, smooth. Wild. Seed.
- PI 558242 **origin:** Chile. **collected:** February 17, 1989. **collector id:** SC 4393. **locality:** Cautin. 1.2 km S of S end of Laguna Arco Iris, 13 km N of guard superintendent's house, just S of Laguna Verde. **latitude:** 38 deg. 42 min.. **longitude:** 71 deg. 38 min.. **elevation:** 990m. **remarks:** Growing in woods in wet organic soil at side of stream, with Fuchsia magellanica, Chusquea chila, Ribes; twenty plants. Flowers sky blue, fruit green and purple, round, smooth;. Wild. Seed.

- PI 558243 **origin:** Chile. **collected:** February 17, 1989. **collector id:** SC 4395. **locality:** Malleco. At S-facing base of large escarpment, just N of Volcan Lliama, valley of Rio Captren, ca. 5 km W of W end of Laguna Conguillo. **latitude:** 38 deg. 38 min.. **longitude:** 71 deg. 44 min.. **elevation:** 980m. **remarks:** In shaded mature Nothofagus forest, in moist soil, ca. twenty plants present. No flowers present, fruits green, round, smooth. Wild. Seed.
- PI 558244 **origin:** Chile. **collected:** February 17, 1989. **collector id:** SC 4396. **locality:** Cautin. Sector Ballica Fundo Venecia, on hill 10 km SW of Cherquenco, on road to Lomacura, on Cordillera de Melo. **latitude:** 38 deg. 47 min.. **longitude:** 71 deg. 55 min.. **elevation:** 780m. **remarks:** Growing with Fuchsia magellanica, Chusquea chila, Urtica, in moist soil, in shade; two plants. Flowers absent, fruits green, round, smooth. Wild. Seed.
- PI 558245 **origin:** Chile. **collected:** February 21, 1989. **collector id:** SC 4397. **locality:** Valdivia. Ca. 100 m downstream of bridge over stream at W end of Laguna Pullingue, (a small lake on S side of Laguna Calafquen), on S side of river. **latitude:** 39 deg. 34 min.. **longitude:** 72 deg. 10 min.. **elevation:** 170m. **remarks:** Among dense Ribes and Rubus ulmifolius thicket; leaves viscid, stem 3 m long; ca. 10 plants present; Flowers sky blue and white on outer edge; fruits light green(no purple), round, smooth. Wild. Seed.
- PI 558246 **origin:** Chile. **collected:** February 21, 1989. **collector id:** SC 4398. **locality:** Valdivia. On N side of rd. at Nomeco, on S side of Lago Calafquen, ca. 150 m E of Puente Nomeco. **latitude:** 39 deg. 34 min.. **longitude:** 72 deg. 06 min.. **elevation:** 250m. **remarks:** Growing with Fuchsia magellanica, Urtica, Rubus ulmifolius; among rich organic soil of a large fallen tree. stems 1.8 m long, leaves viscid; ten plants present, one in fruit; no flowers present, fruit green and purple;. Wild. Seed.
- PI 558247 **origin:** Chile. **collected:** February 21, 1989. **collector id:** SC 4399. **locality:** Valdivia. At base of large hill, just N of intersection of roads on E end of Lago Calafquen, ca. 1 km (by air) E from E end of Lago Calafquen. **latitude:** 39 deg. 34 min.. **longitude:** 71 deg. 59 min.. **elevation:** 250m. **remarks:** Growing with Fuchsia magellanica, Rubus ulmifolius, Urtica. Two unflowering and unfruiting plants. Wild. Rhizome.

PI 558233 to 558283-continued

- PI 558248 **origin:** Chile. **collected:** February 21, 1989. **collector id:** SC 4400. **locality:** Valdivia. 18 km NW of Termas de Liquine. **latitude:** 39 deg. 36 min.. **longitude:** 72 deg. 55 min.. **elevation:** 390m. **remarks:** Growing with Chusquea chila, Urtica, grasses; one plant on roadside. Flowers absent, fruit green, round, smooth. Wild. Seed.
- PI 558249 **origin:** Chile. **collected:** February 21, 1989. **collector id:** SC 4401. **locality:** Valdivia. In streambed adjacent to Termas de Liquine. **latitude:** 39 deg. 44 min.. **longitude:** 71 deg. 52 min.. **elevation:** 270m. **remarks:** Six plants in streambed. One plant in fruit. Flowers absent, fruit green and purple, round, smooth. Wild. Seed.
- PI 558250 **origin:** Chile. **collected:** February 22, 1989. **collector id:** SC 4402. **locality:** Valdivia. 8.1km S of crossing of road to Liquine-Los Antiques road and road to Choshuenco, just N of Pasas, just NW of Lago Neltume in arroyo at bridge crossing. **latitude:** 39 deg. 44 min.. **longitude:** 71 deg. 52 min.. **elevation:** 400m. **remarks:** Growing alone in rocks, near large Nothofagus trees; twenty plants present. Flowers absent, fruit green and purple, round, smooth. Wild. Seed.
- PI 558251 **origin:** Chile. **collected:** February 22, 1989. **collector id:** SC 4403. **locality:** Valdivia. 14.6 km S of crossing of road to Liquine-Los Antiques road and road to Choshuenco, on SE side of Lago Neltume. **latitude:** 39 deg. 43 min.. **longitude:** 71 deg. 58 min.. **elevation:** 260m. **remarks:** Growing with Nothofagus, Rubus ulmifolius, by a burnt log; three small plants. Flowers and fruits absent. Wild. Rhizome.
- PI 558252 **origin:** Chile. **collected:** February 22, 1989. **collector id:** SC 4405. **locality:** Valdivia. 100 m NE of corner of road crossing of road to Volcan El Mocho and road to Choshuenco. **latitude:** 39 deg. 54 min.. **longitude:** 72 deg. 08 min.. **elevation:** 130m. **remarks:** In low wet area, growing with Rubus ulmifolius and Chusquea chila; one plant present. Flowers and fruits absent. Wild. Rhizome.
- PI 558253 **origin:** Chile. **collected:** February 22, 1989. **collector id:** SC 4406. **locality:** Valdivia. 32.7 km S of Puente Puerto Fui, over Rio Fui, on W side of private road. **latitude:** 40 deg. 02 min.. **longitude:** 71 deg. 58 min.. **elevation:** 550m. **remarks:** One plant present growing with chusquea chila, Fuchsia magellanica, Aristotelia chilensis; Flowers absent, fruit green and purple, round smooth (with warts). Plant 3.2 m long, 38 berries/inflorescence;. Wild. Seed.

- PI 558254 **origin:** Chile. **collected:** February 23, 1989. **collector id:** SC 4407. **locality:** Vladivivia. In wet rocky seepage slope, just upriver of entrance to Petroglypho Cachillahue, S side of Rio Bueno, Ca. 5 km (by air) E of center of town of Rio Bueno. **latitude:** 40 deg. 20 min.. **longitude:** 72 deg. 52 min.. **elevation:** 920m. **remarks:** Growing among Chusquea chila, Rubus ulmifolius, Fuchsia magellanica. Stems to 3 m long; 53 berries/inflorescence; flowers sky blue with white radiating between lobes, fruit green and purple, round, smooth. Wild. Seed.
- PI 558255 **origin:** Chile. **collected:** February 24, 1989. **collector id:** SC 4408. **locality:** Osorno. On N side of CH 215, E of Osorno, ca. 50 m N of road by fence, 1.7 km W of Puente Gol Gol #1 (over Rio Gol Gol), 8 km (by air) E of E end of Lago Puyehue. **latitude:** 40 deg. 39 min.. **longitude:** 72 deg. 14 min.. **elevation:** 170m. **remarks:** Growing with Chusquea chila, in rich organic soil, plant 2.5m long; two plants. Flowers light blue, fruits green, round, smooth. Wild. Seed.
- PI 558256 **origin:** Chile. **collected:** February 24, 1989. **collector id:** SC 4409. **locality:** Osorno. 6 km from Aduana Paharitos station near border with Argentina, in ditch on S side of CH 215, E of Osorno, 13.9 km W of border with Argentina. **latitude:** 40 deg. 40 min.. **longitude:** 72 deg. 04 min.. **elevation:** 710m. **remarks:** In roadside ditch with Gunnera, Plantago, grasses, in wet, black, gritty volcanic soil, Nothofagus forest area. Flowers absent, fruits green and purple, round, smooth;. Wild. Seed.
- PI 558257 **donor id:** SC 4450. **origin:** Chile. **collected:** March 02, 1989. **collector id:** Spo 4450. **locality:** Llanquihue. At Pte. Peulla, on wet shaded slope by boat landing. **latitude:** 41 deg. 06 min.. **longitude:** 72 deg. 02 min.. **elevation:** 155m. **remarks:** Deep rich soil. Stems to 4 m long; flowers sky blue with white, fruit round, green, and purple. Wild. Seed.
- PI 558258 **donor id:** SC 4451. **origin:** Chile. **collected:** March 02, 1989. **collector id:** Spo 4451. **locality:** Llanquihue. On road from Puella (Chile) to San Carlos de Bariloche (Argentina), Ca. 3 km W of Chile-Argentina border, on slope off S side of road. **latitude:** 41 deg. 04 min.. **longitude:** 71 deg. 51 min.. **elevation:** 800m. **remarks:** In open sun in deep rich soil. Stems to 2 m long; flowers sky blue. Wild. Seed.

- PI 558259 **donor id:** SC 4452. **origin:** Chile. **collected:** March 02, 1989. **collector id:** Spo 4452. **locality:** Llanquihue. At base of Salta Los Novios, along trail S of hotels in Puella, Ca. 0.5 km S of border crossing road. **latitude:** 41 deg. 06 min.. **longitude:** 72 deg. 01 min.. **elevation:** 170m. **remarks:** In deep rich soil near stream; abundant by falls in surrounding area. Flowers sky blue, fruits round, green and dark purple, smooth. Wild. Seed.
- PI 558260 **donor id:** SC 4453. **origin:** Chile. **collected:** March 03, 1989. **collector id:** Spo 4453. **locality:** Llanquihue. On S side of Lago Todos Los Santos, just across lake from hotel and marina at Petrohue, Ca. 300 m S of lake. **latitude:** 41 deg. 08 min.. **longitude:** 72 deg. 24 min.. **elevation:** 160m. **remarks:** In rich organic soil of landslide, plant without flowers or fruits, growing among piles of cut tree branches. 2 non flowering plants present. Wild.
- PI 558261 **donor id:** SC 4454. **origin:** Chile. **collected:** March 04, 1989. **collector id:** Spo 4454. **locality:** Llanquihue. Just N of Ralun, 5.3 km E and then N from Puente Petrohue (bridge crossing over, Rio Petrohue on N end of Bahia Ralun). **latitude:** 41 deg. 22 min.. **longitude:** 72 deg. 16 min.. **elevation:** 40m. **remarks:** Growing in organic soil out of stump of rotting log, 2 plants present. Flowers and fruits absent. Wild. Rhizome.
- PI 558262 **donor id:** SC 4455. **origin:** Chile. **collected:** March 04, 1989. **collector id:** Spo 4455. **locality:** Llanquihue. On land of Jorge Barrio, Ca. 8 km (by air), N of town of Ralun, Ca. 3 km, by air, SSW of S end of Lago Callutue. **latitude:** 41 deg. 18 min.. **longitude:** 72 deg. 16 min.. **elevation:** 480m. **remarks:** Growing in grazed pasture on hillside among clumps of shrubs. 2 plants present; flowers absent, fruits absent. Wild. Rhizome.
- PI 558263 **donor id:** SC 4456. **origin:** Chile. **collected:** March 07, 1989. **collector id:** Spo 4456. **locality:** Valdivia. Next to logging road, on W side of valley of Rio Huahum, Ca. 2 km W of border crossing with Argentina, ca. 1 km S of CH 203 (border crossing road), S of Pirehueico. **latitude:** 40 deg. 06 min.. **longitude:** 71 deg. 41 min.. **elevation:** 680m. **remarks:** In mature Nothofagus forest with Chusquea, in deep organic soil. 2 plants; flowers absent, fruit round, green and purple. Wild. Seed.

- PI 558264 donor id: SC 4457. origin: Chile. collected: March 07, 1989. collector id: Spo 4457. locality: Valdina. 4.2 km S of loading dock at Pirehueico, on E side of road on land Manual Jesus Sepulbeda Varela. latitude: 40 deg. 03 min.. longitude: 71 deg. 43 min.. elevation: 640m. remarks: Growing among burnt logs with Chusquea. 15 plants; flowers absent, fruits round, green, purple, and smooth. Wild. Seed.
- PI 558265 donor id: SC 4458. origin: Chile. collected: March 07, 1989. collector id: Spo 4458. locality: Valdivia. E of E end of Lago Pirehueico, 2.3 km N of junction of road diverting 1 km S of CH 203 (border crossing road), beginning 1 km S of S end of Lago Pirehueico. latitude: 41 deg. 01 min.. longitude: 71 deg. 42 min.. elevation: 650m. remarks: In grazed opening of Nothofagus forest, among burnt logs, growing with Rubus ulimifolius. 2 plants present flowers absent, fruits round, green, purple and smooth. Wild. Seed.
- PI 558266 donor id: SC 4459. origin: Chile. collected: March 07, 1989. collector id: Spo 4459. locality: Valdivia. E of Lago Pirehueico, rd diverting 1 km S of CH 203 (border crossing road), beginning 1 km S of S end of Lago Pirehueico. latitude: 39 deg. 56 min.. longitude: 71 deg. 42 min.. elevation: 665m. remarks: Growing in rocks of dry wash. One plant present; flowers absent, fruit round, green, purple and smooth. Wild. Seed.
- PI 558267 donor id: SC 4460. origin: Chile. collected: March 08, 1989. collector id: Spo 4460. locality: Cautin. At Zonzon Seco; at base of W facing hill, at border of Nothofagus woods and lava field, in Parque Nacional Volcan Villarrica, 11 km, by air, NNW of apex of Volcan Villarrica. latitude: 39 deg. 19 min.. longitude: 71 deg. 58 min.. elevation: 750m. remarks: In wet soil by a spring. 2 plants present; flowers absent, fruit round green, purple, and smooth. Wild. Seed.
- PI 558268 donor id: SC 4461. origin: Chile. collected: March 09, 1989. collector id: Spo 4461. locality: Cautin. At Huife Alfo, on land of Delfin Guirrez, 20 m NW of stream on NW side of road, 8.2 km NE of Termas de Huife;. latitude: 39 deg. 11 min.. longitude: 71 deg. 35 min.. elevation: 850m. remarks: Growing in wet rocky soil among rotting logs. 21 stems arising from base of one plant, stems to 2.2 m long; three plants present; flowers absent, fruits round, green, purple, and smooth. Wild. Seed.

- PI 558269 donor id: SC 4462. origin: Chile. collected: March 09, 1989. collector id: Spo 4462. locality: Cautin. On E side road from Villa San Pedro to Papal (this road not on road or topographic maps), in a small stream in a small arroyo, NE of San Pedro, Ca. 17 km (by air) E of Pucon. latitude: 39 deg. 15 min.. longitude: 71 deg. 45 min.. elevation: 590m. remarks: Growing in wet spongy organic soil with Gunnera, Prunella, Scirpus, Fuchsia magellanica. Stems to 1 m long flowers absent, fruits round, green, purple and smooth. Wild. Seed.
- PI 558270 donor id: SC 4463. origin: Chile. collected: March 10, 1989. collector id: Spo 4463. locality: Cautin. Ca. 100 km downstream of Salto El Leon, Ca. 1 km (by air) E of Termas Palguin. latitude: 39 deg. 25 min.. longitude: 71 deg. 45 min.. elevation: 750m. remarks: Growing in wet mucky soil. Stems to 1.8 m long; 15 plants; flowers absent, fruit round, green, purple, and smooth. Wild. Seed.
- PI 558271 donor id: SC 4464. origin: Chile. collected: March 10, 1989. collector id: Spo 4464. locality: Cautin. At Termas Palguin, along side of Rio Palguin, frequent along baths and wells of Termas Palguin. latitude: 39 deg. 25 min.. longitude: 71 deg. 46 min.. elevation: 760m. remarks: Stems to 1.3 m long; flowers absent, fruits round, green, purple, and smooth. Wild. Seed.
- PI 558272 donor id: SC 4465. origin: Chile. collected: March 10, 1989. collector id: Spo 4465. locality: Cautin. Ca. 100 m downstream (N) of Salto la China, Ca. 0.5 km NE of junction of road to Termas Panguin and Salto el Leon. latitude: 39 deg. 24 min.. longitude: 71 deg. 45 min.. elevation: 680m. remarks: 100 m downstream of Salto la China. Flowers absent, fruits round, green, purple, and smooth;. Wild. Seed.
- PI 558273 donor id: SC 4466. origin: Chile. collected: March 10, 1989. collector id: Spo 4466. locality: Cautin. By edge of potato field on jeep road from Huililco to Caren, about 1 km (by air) on NW side of top of hill. latitude: 39 deg. 25 min.. longitude: 71 deg. 36 min.. elevation: 920m. remarks: Growing out of standing rotting stump with Rubus ulimifolius. One plant present; flowers absent, fruits round, green, purple, and smooth. Wild. Seed.

- PI 558274 **donor id:** SC 4467. **origin:** Chile. **collected:** March 11, 1989. **collector id:** Spo 4467. **locality:** Cautin. On SE side of road, SW of Termas de Pangui. **latitude:** 39 deg. 15 min.. **longitude:** 71 deg. 31 min.. **elevation:** 930m. **remarks:** Among rotting logs, on slope, partially cut down Tsuga and Nothofagus forest, with Chusquea; deep organic soil. 20 plants, 3 in fruit; flowers absent, fruit green, round, purple, smooth. Wild. Seed.
- PI 558275 **donor id:** SC 4468. **origin:** Chile. **collected:** March 11, 1989. **collector id:** Spo 4468. **locality:** Cautin. 2.2 km N of Cuarrehue-Termas Panguin Road along the road to Los Chilcos and Reclira Alto, on E side of Rio Pangui in wet slippage bank by river. **latitude:** 39 deg. 18 min.. **longitude:** 71 deg. 34 min.. **elevation:** 780m. **remarks:** Growing with Gunnera. 10 plants present; flowers sky blue, fruits round, green, purple, and smooth. Wild. Seed.
- PI 558276 **donor id:** SC 4469. **origin:** Chile. **collected:** March 11, 1989. **collector id:** Spo 4469. **locality:** Cautin. 5.2 km along road to Paso de Huirinlil (pass at Argentina border), from junction of this road and road just outside of Curarrehue to Reigolil, 1.5 km W of W end of small lake by W end of Huincapalihue. **latitude:** 39 deg. 21 min.. **longitude:** 71 deg. 29 min.. **elevation:** 790m. **remarks:** Growing by streamside, with Chusquea. Two plants here, flowers absent, fruits round, green, purple, and smooth. Wild. Seed.
- PI 558277 **donor id:** SC 4470. **origin:** Chile. **collected:** March 12, 1989. **collector id:** Spo 4470. **locality:** Cautin. On W bank of Rio Trancura, 50 m S of bridge crossing over this river in town of Curarrehue, in back of house number 1016. **latitude:** 39 deg. 16 min.. **longitude:** 71 deg. 35 min.. **elevation:** 400m. **remarks:** Owner says this plant growing here only for 2 years. One plant present; stems to 1 m long; flowers absent, fruits absent. Wild. Rhizome.
- PI 558278 **donor id:** SC 4471. **origin:** Chile. **collected:** February 12, 1989. **collector id:** Spo 4471. **locality:** Cautin. Ca. 1 km E of valley N of police (carabineros), station at Reigolil, on road diverging to the E, 6.1 km N of this station, land of Eduardo Gonzalez Rosas. **latitude:** 39 deg. 05 min.. **longitude:** 71 deg. 27 min.. **elevation:** 1010m. **remarks:** Growing in opening in partially cut-over Nothofagus forest with Chusquea and Fuchsia magellanica, in wet organic soil. 15 plants present; fruits round, green, purple, and smooth;. Wild. Seed.

- PI 558279 **donor id:** SC 4472. **origin:** Chile. **collected:** February 12, 1989. **collector id:** Spo 4472. **locality:** Cautin. Along small streamlet flowing from the E into Rio Blanco, Ca 5 m E of Rio Blanco, Ca. 100 m N of where a hot spring enters Rio Blanco. **latitude:** 39 deg. 06 min.. **longitude:** 71 deg. 36 min.. **elevation:** 740m. **remarks:** Stems to 2.2 m long; one plant present; flowers absent, fruits round, green, purple and smooth. Wild. Seed.
- PI 558280 **donor id:** SC 4484. **origin:** Chile. **collected:** March 22, 1989. **collector id:** Spo 4484. **locality:** Malleco. Comuna Angol, sector Chanleo, Parque Nacional Nahuelbuta, end of dirt road, Ca. 5 km (by air) W La Paz, Ca. 22 km (by air) W of center of Angol, by guarda del Parque home. **latitude:** 37 deg. 47 min.. **longitude:** 72 deg. 57 min.. **elevation:** 750m. **remarks:** Growing in sandy soil of stream. Three plants present; flowers absent, fruits round, green, purple, smooth. Wild. Seed.
- PI 558281 **donor id:** SC 4486. **origin:** Chile. **collected:** March 23, 1989. **collector id:** Spo 4486. **locality:** Bio-Bio. Among rocks in Rio Rucue, 2 km ESE of Mileo (where dirt road meets Rio Rucue), 7 km (by air), SW of Antuco. **latitude:** 37 deg. 22 min.. **longitude:** 71 deg. 43 min.. **elevation:** 500m. **remarks:** Plants 1.2 dm tall; flowers and fruits absent. Wild. Rhizome.
- PI 558282 **donor id:** SC 4487. **origin:** Chile. **collected:** March 23, 1989. **collector id:** Spo 4487. **locality:** Bio-Bio. Along N side of Rio Rucue where floodplain meets slope, 4 km ESE of Mileo (where dirt road meets Rio Rucue), 6 km SSW of Antuco. **latitude:** 37 deg. 22 min.. **longitude:** 71 deg. 42 min.. **elevation:** 510m. **remarks:** In rich organic soil among fallen rotten trees, in shade. All fruits fallen off the inflorescences, flowers absent, fruits round, green, purple, and smooth. Wild. Seed.
- PI 558283 **donor id:** SC 4488. **origin:** Chile. **collected:** March 24, 1989. **collector id:** Spo 4488. **locality:** Bio-Bio. At Puente Boquia Margo, 3.2 km N of carabineros (police) station, Alto Biobio, along road to Los Chenques (frontier road to Argentina), on E side of road. **latitude:** 37 deg. 51 min.. **longitude:** 71 deg. 39 min.. **elevation:** 490m. **remarks:** Rich organic soil in shaded arroyos, growing on stream bank among rotting logs. Fruits almost all dropped by this time; 20 plants present; flowers absent, fruits green, purple, round and smooth. Wild. Seed.

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Received May 08, 1990.

- PI 558284 **origin:** Chile. **collected:** January 29, 1989. **collector id:** SC 4323. **locality:** Cordillera. In mountains ca. 5 km SSW (by air) from San Jose del Maipo; in Cajon del Maipo, in Yerba Buena, sector el Toyo. Metropolitana. **latitude:** 33 deg. 41 min.. **longitude:** 70 deg. 24 min.. **elevation:** 1500m. **remarks:** Scores of plants present, growing in moist soil of quebrada with *Escalonia revoluta*, *Urtica*. Flowers dark blue, fruits green and smooth. Wild. Seed.
- PI 558285 **origin:** Chile. **collected:** January 29, 1989. **collector id:** SC 4324. **locality:** Cordillera. Ca. 6 km SSW (by air) of San Jose del Maipo, in Quebrada Los Lunes. Metropolitana. **latitude:** 33 deg. 42 min.. **longitude:** 70 deg. 23 min.. **elevation:** 1500m. **remarks:** Scores of plants present, growing in moist soil of quebrada with *Escalonia revoluta*, *Urtica*. Flowers dark blue, fruits green, smooth, round. Wild. Seed.
- PI 558286 **origin:** Chile. **collected:** January 30, 1989. **collector id:** SC 4325. **locality:** Santiago. Sector Aqua del Minero, Quebrada de Macul, Cerros de Penalolen. Metropolitana. **latitude:** 33 deg. 30 min.. **longitude:** 70 deg. 28 min.. **elevation:** 1850m. **remarks:** Scores of plants present, growing with *Escalonia revoluta*, *Urtica*. Wild. Seed.
- PI 558287 **origin:** Chile. **collected:** January 31, 1989. **collector id:** SC 4326. **locality:** Cachapoal. On W bank of Rio Cipreses, in El Reserva Nacional Rio de los Cipreses, growing alone among rocks next to stream. **latitude:** 34 deg. 21 min.. **longitude:** 70 deg. 25 min.. **elevation:** 2200m. **remarks:** One large plant present. Flowers absent, fruits green, smooth, round. Wild. Seed.
- PI 558288 **origin:** Chile. **collected:** February 01, 1989. **collector id:** SC 4328. **locality:** Colchagua. Ca. 3 km (by air) SSE of Sierras de Bellavista, by streamside, in quebrada Las Aletillas. **latitude:** 34 deg. 50 min.. **longitude:** 70 deg. 44 min.. **elevation:** 1540m. **remarks:** Growing under *Aristotelia chilensis*, *Escalonia revoluta*, *Equisetum*. Flowers absent, fruits smooth, round. Wild. Seed.

- PI 558289 **origin:** Chile. **collected:** February 03, 1989. **collector id:** SC 4330. **locality:** Talca. In quebrada N of Rio Claro, ca. 60 km SE of Molina, Quebrada La Leona, Parque Ingles. **latitude:** 35 deg. 28 min.. **longitude:** 70 deg. 56 min.. **elevation:** 1350m. **remarks:** In quebrada; one plant present. Wild. Seed.
- PI 558290 **origin:** Chile. **collected:** February 03, 1989. **collector id:** SC 4331. **locality:** Talca. In quebrada N of Rio Claro, ca. 60 km SE of Molina, Quebrada La Leona, Parque Ingles, ca 1.5 km upstream of 4330. **latitude:** 35 deg. 27 min.. **longitude:** 70 deg. 56 min.. **elevation:** 1400m. **remarks:** Plant glutinous, growing with Fuchsia magellanica, 100 plants present. Wild. Seed.
- PI 558291 **origin:** Chile. **collected:** February 05, 1989. **collector id:** SC 4333. **locality:** Talca. In bed of small stream flowing from the S into Rio Maule, ESE of Talca, ca. 3 km W of turnoff past army post to Laguna La Invernada, 33 km E of Cipreses. **latitude:** 35 deg. 48 min.. **longitude:** 70 deg. 53 min.. **elevation:** 830m. **remarks:** Flowers and fruits absent. Wild. Rhizome.
- PI 558292 **origin:** Chile. **collected:** February 07, 1989. **collector id:** SC 4336. **locality:** Nuble. In bank of Los Sauces River, in Los Sauces. **latitude:** 36 deg. 39 min.. **longitude:** 71 deg. 16 min.. **elevation:** 710m. **remarks:** Plant almost glabrous, very scattered sterile plants, only one in fruit; flowers absent, fruit green, smooth, round;. Wild.
- PI 558293 **origin:** Chile. **collected:** February 08, 1989. **collector id:** SC 4337. **locality:** Nuble. AT base of moist waterfall at Las Trancas, on N side of road to Termas de Chillan, ca. 10 km W of Termas de Chillan. **latitude:** 36 deg. 53 min.. **longitude:** 71 deg. 29 min.. **elevation:** 1250m. **remarks:** Abundant at base of cliff in spray from waterfall, growing with Fuschia maglenica, Alstroemeria ligtu. Flowers dark blue, fruits green, smooth, round. Wild. Seed.
- PI 558294 **origin:** Chile. **collected:** February 08, 1989. **collector id:** SC 4338. **locality:** Nuble. By small quebrada on S side of road, ca. 4 km W of Termas de Chillan, at Gruta los Pangues. **latitude:** 36 deg. 54 min.. **longitude:** 71 deg. 25 min.. **elevation:** 1460m. **remarks:** Ten plants growing with Alstroemeria ligtu and grasses. Flowers dark blue, fruit green, smooth, round. Wild. Seed.

PI 558284 to 558312-continued

- PI 558295 **origin:** Chile. **collected:** February 08, 1989. **collector id:** SC 4340. **locality:** Nuble. By stream above hotel at Termas del Chillan. **latitude:** 36 deg. 53 min.. **longitude:** 71 deg. 23 min.. **elevation:** 1700m. **remarks:** Abundant here and in immediate surrounding areas, growing with Ribes. Flowers dark blue, fruits green, smooth, round. Wild. Seed.
- PI 558296 **origin:** Chile. **collected:** February 09, 1989. **collector id:** SC 4341. **locality:** Bio-Bio. In dry volcanic cinders just N of rd. on S side of a west-jutting spur of Laguna de la Laja, at sector Puerto. **latitude:** 37 deg. 22 min.. **longitude:** 71 deg. 23 min.. **elevation:** 1380m. **remarks:** One isolated plant present, in dry, rocky volcanic soil. Flowers absent, fruit green, smooth, round. Wild. Seed.
- PI 558297 **origin:** Chile. **collected:** February 10, 1989. **collector id:** SC 4349. **locality:** Bio-Bio. About 3 km SE of Alto Biobio, on N side of Rio Panque, 300 m upstream of bridge (Puente Panque). **latitude:** 37 deg. 53 min.. **longitude:** 71 deg. 36 min.. **elevation:** 440m. **remarks:** Identity of plant in doubt, one plant collected, growing among rocks on side of river. Flowers blue, fruit round. Wild. Seed.
- PI 558298 **origin:** Chile. **collected:** February 10, 1989. **collector id:** SC 4350. **locality:** Bio-Bio. About 3 km SE of Alto Biobio on N side of Rio Panque, about 400 m downstream of bridge (Puente Panque). **latitude:** 37 deg. 54 min.. **longitude:** 71 deg. 36 min.. **elevation:** 430m. **remarks:** Identity of plant in doubt; plant glabrous, growing in sand next to river, one plant. Flowers and fruits absent. Wild. Seed.
- PI 558299 **origin:** Chile. **collected:** February 11, 1989. **collector id:** SC 4352. **locality:** Malleco. 7 km E of rd. jct. at E end of Laguna Malleco, in stream flowing W into Laguna Malleco, ca. 1 km E of bridge over this stream. **latitude:** 38 deg. 12 min.. **longitude:** 71 deg. 46 min.. **elevation:** 1005m. **remarks:** 4 plants found in 0.5 km length. Plants glabrous; flowers absent, fruit green, smooth, round. Wild. Seed.
- PI 558300 **origin:** Chile. **collected:** February 16, 1989. **collector id:** SC 4387. **locality:** Malleco. On E side of road lending W from Caracales, where Rio Nancuero joins Rio Biobio, at Puente Nancuero. **latitude:** 38 deg. 20 min.. **longitude:** 71 deg. 20 min.. **elevation:** 810m. **remarks:** Five seedlings present. No flowering or fruiting plants found. Wild. Rhizome.

- PI 558301 **origin:** Chile. **collected:** February 16, 1989. **collector id:** SC 4388. **locality:** Malleco. Sector Cierre Viejo, along track starting just S of Troyo and leading NW along Rio Ranquil. **latitude:** 38 deg. 14 min.. **longitude:** 71 deg. 15 min.. **elevation:** 1080m. **remarks:** Among rocks in stream ca. 1 km upstream where track crosses stream; hundreds of plants. Flowers dark blue, fruits round, green, smooth. Wild. Seed.
- PI 558302 **origin:** Chile. **collected:** February 16, 1989. **collector id:** SC 4389. **locality:** Malleco. Sector Cierre Viejo, ca. 13 km along track starting just S of Troyo and leading NW along Rio Ranquil. **latitude:** 38 deg. 14 min.. **longitude:** 71 deg. 15 min.. **elevation:** 1150m. **remarks:** Among rocks in stream ca. 300 m downstream where track crosses stream; hundreds of plants present. No flowers present, fruit round green and deep purple. Wild. Seed.
- PI 558303 **donor id:** SC 4473. **origin:** Chile. **collected:** March 17, 1989. **collector id:** Spo 4473. **locality:** Cachapoal. In Sierra de los Punzones, Minas del Rosario, 100 m W of W end of tunnel, 1.3 km W of W end of Laguna Los Cristales. **latitude:** 34 deg. 34 min.. **longitude:** 70 deg. 31 min.. **elevation:** 2110m. **remarks:** Stems to 0.7 m long, leaflets curled at edges and partially folded; 10 plants present; flowers absent, fruits round green, smooth. Wild. Seed.
- PI 558304 **donor id:** SC 4474. **origin:** Chile. **collected:** March 17, 1989. **collector id:** Spo 4474. **locality:** Cachapoal. In Sierra de los Punzones on S side of Laguna Los Cristales, Ca. 3 km, (by air) NE of Laguna Negra. **latitude:** 34 deg. 34 min.. **longitude:** 70 deg. 30 min.. **elevation:** 2245m. **remarks:** Growing by small stream. Stems to 1 m tall, leaflets curled and partially folded at edges; scores of plants present; flowers absent, fruit round, green, purple, and smooth. Wild. Seed.
- PI 558305 **donor id:** SC 4479. **origin:** Chile. **collected:** March 17, 1989. **collector id:** Spo 4479. **locality:** Cachapoal. Where stream flowing N out of Laguna de Negra crosses road to Minas del Rosario. **latitude:** 34 deg. 34 min.. **longitude:** 70 deg. 32 min.. **elevation:** 1800m. **remarks:** Growing next to stream. 20 plants present; stems to 1 m long; flowers absent, fruit round, green, purple, smooth. Wild. Seed.

- PI 558306 **donor id:** SC 4480. **origin:** Chile. **collected:** March 17, 1989. **collector id:** Spo 4480. **locality:** Cachapoal. 0.5 km upstream, (south) of Mengo-Mina del Rosano road (through Las Nieves), 6.1 km W of gate at mine station, 15.4 km E of Las Nieves at gate on E edge of town. **latitude:** 34 deg. 33 min.. **longitude:** 70 deg. 36 min.. **elevation:** 1150m. **remarks:** Growing next to stream in sandy soil. One plant present; flowers dark blue, fruit round, mostly green, some with a slight purple tinge, smooth. Wild. Seed.
- PI 558307 **donor id:** SC 4481. **origin:** Chile. **collected:** March 18, 1989. **collector id:** Spo 4481. **locality:** Curico. In arroyo Ca. 300 m S of Rio Teno, off of Curico- Vergara Pass (border with Argentina) Road (now abandoned), Ca. 15 km E of Los Quenes, ca. 12 km (by air), W of Los Cipreses. **latitude:** 35 deg. 03 min.. **longitude:** 70 deg. 40 min.. **elevation:** 1040m. **remarks:** Growing by small stream. 10 plants present; flowers dark blue, fruits green, round, and smooth. Wild. Seed.
- PI 558308 **donor id:** SC 4482. **origin:** Chile. **collected:** March 18, 1989. **collector id:** Spo 4482. **locality:** Curico. Ca. 3 km S of Rio Teno off Curico-Vergara Pass (border with Argentina) Road (now abandoned), Ca. 15 km E of Los Quenes, in small valley joining Rio Teno, Ca. 5 km W of Los Cipreses. **latitude:** 35 deg. 05 min.. **longitude:** 70 deg. 36 min.. **elevation:** 1240m. **remarks:** In loose, rocky, wet soil, at base of waterfall on E side of stream. Flowers and fruits absent. Wild. Rhizome.
- PI 558309 **donor id:** SC 4485. **origin:** Chile. **collected:** March 23, 1989. **collector id:** Spo 4485. **locality:** Bio-Bio. Among rocks in Rio Rucue, for a 4 km stretch, centered 2 km ESE of Mileo (where dirt road meets Rio Rucue) 7 km (by air), SW of Antuco. **latitude:** 37 deg. 22 min.. **longitude:** 71 deg. 43 min.. **elevation:** 500m. **remarks:** Plants 1 dm tall; flowers and fruits absent. Wild. Rhizome.
- PI 558310 **donor id:** SC 4489. **origin:** Chile. **collected:** March 24, 1989. **collector id:** Spo 4489. **locality:** Bio-Bio. In rocks in stream flowing from the N into Rio Queuco, Ca. 50 m W of Puente Nitrao, by Banos Nitrao, 48 km NE of Alto Biobio. **latitude:** 37 deg. 41 min.. **longitude:** 71 deg. 20 min.. **elevation:** 820m. **remarks:** Fruits mostly dried at this time. 100 plants present, mostly sterile, in a 300 m length of stream; flowers absent, fruits round, green smooth; herb. Wild. Seed.

PI 558284 to 558312-continued

PI 558311 **donor id:** SC 4490. **origin:** Chile. **collected:** March 24, 1989. **collector id:** Spo 4490. **locality:** Bio-Bio. 70 km NE of Alto Biobio on road to Hito Paso de Copahue, (at the Argentina border), 5 km E of Argentina border, by hot sulfur springs, where small stream crosses jeep road near headwaters Rio Queuco. **latitude:** 37 deg. 49 min.. **longitude:** 71 deg. 10 min.. **elevation:** 1810m. **remarks:** Growing among rocks in stream. Fruits very mature; common in area; flowers absent, fruits round, green, smooth. Wild. Seed.

PI 558312 **donor id:** SC 4491. **origin:** Chile. **collected:** March 25, 1989. **collector id:** Spo 4491. **locality:** Malleco. Along a small stream flowing from the E into Rio Biobio, Ca. 500 m E of where jeep road crosses this stream, just S of El Traum. **latitude:** 38 deg. 11 min.. **longitude:** 71 deg. 17 min.. **elevation:** 940m. **remarks:** 50 plants in a 400 m length of stream. Flowers and fruits absent. Wild.

PI 558313 to 558316. *Solanum maglia* Schldl. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received May 08, 1990.

PI 558313 **origin:** Chile. **collected:** January 25, 1989. **collector id:** SC 4301. **locality:** Valparaiso. 300 m S of Puente El Piden, on S side on concon, on E side of road. **latitude:** 32 deg. 55 min.. **longitude:** 71 deg. 32 min.. **elevation:** 20m. **remarks:** Just a few plants present. Flowers white, fruits absent. Wild.

PI 558314 **origin:** Chile. **collected:** January 25, 1989. **collector id:** SC 4302. **locality:** Valparaiso. 100 m S of Puente El Piden on S side of Concon, on E side of road. **latitude:** 32 deg. 55 min.. **longitude:** 71 deg. 32 min.. **elevation:** 20m. **remarks:** Just a few plants present. Flowers white, fruits absent. Wild. Tuber.

PI 558315 **origin:** Chile. **collected:** January 26, 1989. **collector id:** SC 4306. **locality:** Petorca. Facing Pacific Ocean, W side of coast road, ca 1/2 km N of La Laguna beach, 5 km S of S entrance to Cachagua (which is just S of Zapallar). **latitude:** 32 deg. 36 min.. **longitude:** 71 deg. 26 min.. **elevation:** 10m. **remarks:** Scattered small colonies on slope; growing on lushly-vegetated sand dune, with *Urtica dioica*, *Cyperis*. Flowers white, fruits absent. Wild. Tuber.

PI 558313 to 558316-continued

PI 558316 **origin:** Chile. **collected:** January 26, 1989. **collector id:** SC 4310. **locality:** Petorca. Ca. 500 m S of beach at Zapallar, at house of Rosa Perez. **latitude:** 32 deg. 33 min.. **longitude:** 71 deg. 26 min.. **elevation:** 10m. **remarks:** Just a few plants present. Flowers white, fruits absent. Wild. Tuber.

PI 558317 to 558369. *Solanum tuberosum* L. var. *tuberosum* SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received May 08, 1990.

PI 558317 **origin:** Chile. **collected:** February 25, 1989. **collector id:** SC 4410. **locality:** Chiloe. Sector Recta Chacao, in field of Rosalia Segovia, about 10 km WSW of Chacao on road to Ancud. **latitude:** 41 deg. 52 min.. **longitude:** 73 deg. 36 min.. **elevation:** 5m. **remarks:** Flowers purple, fruit green, round, smooth; tubers named Azultardia. Wild. Tuber.

PI 558318 **origin:** Chile. **collected:** February 25, 1989. **collector id:** SC 4411. **locality:** Chiloe. Sector Recta Chacao, in field of Rosalia Segovia, about 10 km WSW of Chacao on road to Ancud. **latitude:** 41 deg. 52 min.. **longitude:** 73 deg. 36 min.. **elevation:** 5m. Wild. Tuber.

PI 558319 **origin:** Chile. **collected:** February 25, 1989. **collector id:** SC 4412. **locality:** Chiloe. Sector Recta Chacao, in field of Rosalia Segovia, about 10 km WSW of Chacao on road to Ancud. **latitude:** 41 deg. 52 min.. **longitude:** 73 deg. 36 min.. **elevation:** 5m. Wild. Tuber.

PI 558320 **origin:** Chile. **collected:** February 25, 1989. **collector id:** SC 4413. **locality:** Chiloe. In field of Gonzalez family, Ca. 5 km NE of Cocolue on road to Ancud. **latitude:** 41 deg. 54 min.. **longitude:** 73 deg. 52 min.. **elevation:** 10m. **remarks:** Tubers named Frutilla. Wild. Tuber.

PI 558321 **origin:** Chile. **collected:** February 25, 1989. **collector id:** SC 4414. **locality:** Chiloe. In field of Gonzalez family, Ca. 5 km NE of Cocolue on road to Ancud. **latitude:** 41 deg. 54 min.. **longitude:** 73 deg. 52 min.. **elevation:** 10m. **remarks:** Tubers named Azul. Wild. Tuber.

- PI 558322 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4415. **locality:** Chiloe. Field of Audilio Quilahuilque, N end of Isla Caucahue, just NE of town of Quemchi, sector Morros Lobos. **latitude:** 42 deg. 07 min.. **longitude:** 73 deg. 23 min.. **elevation:** 5m. **remarks:** Tubers named Rinona. Wild. Tuber.
- PI 558323 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4416. **locality:** Chiloe. Field of Audilio Quilahuilque, N end of Isla Caucahue, just NE of town of Quemchi, sector Morros Lobos. **latitude:** 42 deg. 07 min.. **longitude:** 73 deg. 23 min.. **elevation:** 5m. **remarks:** Tubers named Clavella. Wild. Tuber.
- PI 558324 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4417. **locality:** Chiloe. Field of Audilio Quilahuilque, N end of Isla Caucahue, just NE of town of Quemchi, sector Morros Lobos. **latitude:** 42 deg. 07 min.. **longitude:** 73 deg. 23 min.. **elevation:** 5m. Wild. Tuber.
- PI 558325 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4418. **locality:** Chiloe. Field of Audilio Quilahuilque, N end of Isla Caucahue, just NE of town of Quemchi, sector Morros Lobos. **latitude:** 42 deg. 07 min.. **longitude:** 73 deg. 23 min.. **elevation:** 5m. **remarks:** Tubers named Cielo. Wild. Tuber.
- PI 558326 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4419. **locality:** Chiloe. Field of Audilio Quilahuilque, N end of Isla Caucahue, just NE of a town of Quemchi, section Morros Lobos. **latitude:** 42 deg. 07 min.. **longitude:** 73 deg. 23 min.. **elevation:** 5m. **remarks:** Tubers named Cacho. Wild. Tuber.
- PI 558327 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4420. **locality:** In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. Wild. Tuber.
- PI 558328 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4421. **locality:** Chiloe. In Yaldad, just W of Quellon in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. **remarks:** Tubers named Colorada. Wild. Tuber.

- PI 558329 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4422. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. **remarks:** Tubers named Australia. Wild. Tuber.
- PI 558330 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4423. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. Wild. Tuber.
- PI 558331 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4424. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. **remarks:** Tubers named Mantequilla. Wild. Tuber.
- PI 558332 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4425. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. **remarks:** Tubers named Guadacho. Wild. Tuber.
- PI 558333 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4426. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. **remarks:** Tubers named Mantequilla Colorada. Wild. Tuber.
- PI 558334 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4427. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. **remarks:** Tubers named Gualatito. Wild. Tuber.
- PI 558335 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4428. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. Wild. Tuber.

- PI 558336 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4429. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. **remarks:** Tubers named Cabrita. Wild. Tuber.
- PI 558337 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4430. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. Wild. Tuber.
- PI 558338 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4431. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. **remarks:** Tubers named Nocha. Wild. Tuber.
- PI 558339 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4432. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. **remarks:** Tubers named Americana Colorado. Wild. Tuber.
- PI 558340 **origin:** Chile. **collected:** February 26, 1989. **collector id:** SC 4433. **locality:** Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro, Chiloe Island. **latitude:** 43 deg. 06 min.. **longitude:** 73 deg. 43 min.. **elevation:** 2m. Wild. Tuber.
- PI 558341 **origin:** Chile. **collected:** March 05, 1990. **collector id:** CPS 1125. **locality:** Aisen. NE side of Islotes Pangués. **latitude:** 43 deg. 46 min.. **longitude:** 74 deg. 02 min.. **elevation:** 1m. **remarks:** 200+ plants present. Wild. Near edge of beach among rocks and under Gunnera. Tubers with purple skin and purple flesh, no flowers or fruits present. Wild. Tuber.
- PI 558342 **origin:** Chile. **collected:** March 05, 1990. **collector id:** CPS 1126. **locality:** Aisen. NE side of Islotes Pangués. **latitude:** 43 deg. 46 min.. **longitude:** 74 deg. 02 min.. **elevation:** 1m. **remarks:** Near edge of beach among rocks and under Gunnera. 150 plants present. Wild. Tubers with purple skin and purple flesh; no flowers or fruits present. Wild. Tuber.

- PI 558343 origin: Chile. collected: March 05, 1990. collector id: CPS 1127. locality: Aisen. E side of Isla la Bolla, a small island (not shown map) just N of Isla Gran Guaiteca. latitude: 43 deg. 47 min.. longitude: 74 deg. 01 min.. elevation: 1m. remarks: Growing under thorny bushes in black sandy and organic soils. 25 plants present. Wild. Tubers with purple skin and purple flesh, 5 plants seen, no flowers or fruits present. Wild. Tuber.
- PI 558344 origin: Chile. collected: March 06, 1990. collector id: CPS 1128. locality: Aisen. SE side of Isla Tuamapu, near beach. latitude: 44 deg. 01 min.. longitude: 74 deg. 09 min.. elevation: 1m. remarks: On edge of forest, by temporary dwelling. 20 plants present. Modern cultivar. Found in organic soil. Tubers with whitish flowers, fruits absent. Wild. Tuber.
- PI 558345 origin: Chile. collected: March 06, 1990. collector id: CPS 1129. locality: Aisen. On SW spur of Isla Midhurst, near seashore. latitude: 44 deg. 10 min.. longitude: 74 deg. 20 min.. elevation: 1m. remarks: In stony soil, forest margin, growing with Vicia species. 300 plants present. Wild. Tubers with purple skin and purple flesh, one plant seen with flowers, no fruits present. Wild. Tuber.
- PI 558346 origin: Chile. collected: March 06, 1990. collector id: CPS 1130. locality: Aisen. On W side of Isla La Boya (Isla Guarro), a small island (unnamed on topographic map) W of SW end of Isla Midhurst, by seashore. latitude: 44 deg. 10 min.. longitude: 74 deg. 21 min.. elevation: 1m. remarks: Growing among grasses in sandy soil. Thousands of plants present. Wild. Flowers and fruits absent. Wild. Tuber.
- PI 558347 origin: Chile. collected: March 06, 1990. collector id: CPS 1131. locality: Aisen. On W end of Isla La Boya (Isla Guarro), a small island (unnamed on topographical map) W of SW end of Isla Midhurst, by seashore. latitude: 44 deg. 10 min.. longitude: 74 deg. 21 min.. elevation: 1m. remarks: Growing among grasses in sandy soil. Hundreds of plants present. Wild. Flowers and fruits absent. Wild. Tuber.
- PI 558348 origin: Chile. collected: March 07, 1990. collector id: CPS 1132. locality: Aisen. On SW end of Isla Mellersh, near seashore. latitude: 44 deg. 06 min.. longitude: 74 deg. 21 min.. elevation: 1m. remarks: Growing among grasses in rough sandy soil. 80 plants present. Wild. Young fruits present. Also collected as tubers. Wild. Seed.

- PI 558349 **origin:** Chile. **collected:** March 07, 1990. **collector id:** CPS 1133. **locality:** Aisen. On SW end of Isla Mellersh, near seashore. **latitude:** 44 deg. 06 min.. **longitude:** 74 deg. 21 min.. **elevation:** 1m. **remarks:** Growing among grasses in rough sandy organic soil. 2 plants present. Wild. Wild. Tuber.
- PI 558350 **origin:** Chile. **collected:** March 07, 1990. **collector id:** CPS 1134. **locality:** Aisen. S end of Isla Larga (unnamed on topographic map) just W of N portion of Isla Midhurst, by seashore. **latitude:** 44 deg. 09 min.. **longitude:** 74 deg. 20 min.. **elevation:** 1m. **remarks:** Growing among grasses in fine sandy organic soil. 70 plants present. Wild. Flowers white, one semi-mature fruit collected, tubers with pink skin, white flesh. Also collected as tubers. Wild. Seed.
- PI 558351 **origin:** Chile. **collected:** March 07, 1990. **collector id:** CPS 1135. **locality:** Aisen. On SW spur of Isla Midhurst, near seashore. **latitude:** 44 deg. 10 min.. **longitude:** 74 deg. 20 min.. **elevation:** 1m. **remarks:** Growing in coarse, sandy, organic soil. 10 plants present. Wild. Wild. Tuber.
- PI 558352 **origin:** Chile. **collected:** March 08, 1990. **collector id:** CPS 1136. **locality:** Aisen. E shore of Isla Johnson, E of S end of Isla Acue, by seashore. **latitude:** 44 deg. 20 min.. **longitude:** 74 deg. 23 min.. **elevation:** 1m. **remarks:** Near seashore, in rocky, sandy, and organic soil, among grass. 10 plants present. Wild. Flowers and fruits absent, tubers with purple skin and purple flesh. Wild. Tuber.
- PI 558353 **origin:** Chile. **collected:** March 08, 1990. **collector id:** CPS 1137. **locality:** Aisen. E shore of Isla Johnson, E of S shore of Isla Acue, by seashore. **latitude:** 44 deg. 20 min.. **longitude:** 74 deg. 23 min.. **elevation:** 1m. **remarks:** Near seashore, in rocky, sandy and organic soil. 200 plants present. Wild. Flowers and fruits absent, tubers with purple skin and purple flesh. Wild. Tuber.
- PI 558354 **origin:** Chile. **collected:** March 08, 1990. **collector id:** CPS 1138. **locality:** Aisen. E shore of Isla Johnson, E of S end of Isla Acue, by seashore. **latitude:** 44 deg. 20 min.. **longitude:** 74 deg. 23 min.. **elevation:** 1m. **remarks:** Near seashore, in rocky, sandy & organic soil. Thousands of plants present. Wild. Flowers white, fruits abundant, mature, some eaten by animals or birds, tubers with purple skin and purple flesh. Also collected as tubers. Wild. Seed.

- PI 558355 **origin:** Chile. **collected:** March 08, 1990. **collector id:** CPS 1139. **locality:** Aisen. Isla La Bolla, a small island (unnamed on topog topographic map) of the Islas Broken Group, W of Isla Los Mellenes. **latitude:** 44 deg. 22 min.. **longitude:** 74 deg. 28 min.. **elevation:** 1m. **remarks:** In coarse sand. Hundreds of plants present. Wild. Some tubers with purple skin, some with white skin, fruits mature. Also collected as tubers. Wild. Seed.
- PI 558356 **origin:** Chile. **collected:** March 09, 1990. **collector id:** CPS 1140. **locality:** Aisen. Isla La Bolla, a small island (unnamed on topographic map) of the Islas Broken Group, W of Isla Los Mellenes. **latitude:** 44 deg. 22 min.. **longitude:** 74 deg. 28 min.. **elevation:** 1m. **remarks:** In coarse sand, in grassy area. Hundreds of plants present. Wild. Tubers with purple skin and purple flesh flowers and fruits absent. Wild. Tuber.
- PI 558357 **origin:** Chile. **collected:** March 08, 1990. **collector id:** CPS 1141. **locality:** Aisen. On S side of Isla Don Vicho, small island (unnamed on topographic map), directly W of N end of Isla Los Melleles. **latitude:** 44 deg. 22 min.. **longitude:** 74 deg. 24 min.. **elevation:** 1m. **remarks:** In sandy and rocky soil. Hundreds of plants present. Wild. Flowers or fruits absent, tubers with purple skin and purple flesh. Wild. Tuber.
- PI 558358 **origin:** Chile. **collected:** March 09, 1990. **collector id:** CPS 1144. **locality:** Aisen. Near seashore, on NW shore of Isla Stokes. **latitude:** 44 deg. 37 min.. **longitude:** 74 deg. 33 min.. **elevation:** 1m. **remarks:** Hundreds of plants present. Wild. Flowers and fruits present, tubers with pink skin and white flesh. Also collected as tubers. Wild. Seed.
- PI 558359 **origin:** Chile. **collected:** March 16, 1990. **collector id:** CPS 1145. **locality:** Aisen. Near beach on Isleta Sur, a small island just NW of Isla Churrecue, in Canal Rodriguez. **latitude:** 45 deg. 19 min.. **longitude:** 73 deg. 35 min.. **elevation:** 1m. **remarks:** In organic soil, 25 plants present. Wild. Flowers and fruits absent. Wild. Tuber.
- PI 558360 **origin:** Chile. **collected:** March 16, 1990. **collector id:** CPS 1146. **locality:** Aisen. Near beach by homesite, at N end of Isla Castillo at border of bushes, among grasses. **latitude:** 45 deg. 19 min.. **longitude:** 73 deg. 45 min.. **elevation:** 1m. **remarks:** 30 plants present. Primitive cultivar. Wild. Tuber.

PI 558317 to 558369-continued

- PI 558361 **origin:** Chile. **collected:** March 17, 1990. **collector id:** CPS 1147. **locality:** Aisen. planted in garden at Puerto Playas Blancas, on SE side of Isla Melchor. **latitude:** 45 deg. 14 min.. **longitude:** 73 deg. 43 min.. **elevation:** 1m. **remarks:** In organic soil. Tubers spindle-shaped, with purple skin and white flesh; primitive cultivar. Wild. Tuber.
- PI 558362 **origin:** Chile. **collected:** March 17, 1990. **collector id:** CPS 1148. **locality:** Aisen. Planted in garden at Puerto Playas Blancas, on SE side of Isla Melchor. **latitude:** 45 deg. 14 min.. **longitude:** 73 deg. 43 min.. **elevation:** 1m. **remarks:** In organic soil. Tubers with purple skin and white flesh. Primitive cultivar. Also collected as tubers. Wild. Seed.
- PI 558363 **origin:** Chile. **collected:** March 17, 1990. **collector id:** CPS 1149. **locality:** Aisen. Near beach on W side of Islota Verde, just E of Puerto Playas Blancas on SE side of Isla Melchor. **latitude:** 45 deg. 14 min.. **longitude:** 73 deg. 41 min.. **elevation:** 1m. **remarks:** In organic sandy soil with intermixed shells, growing among grasses. 30 plants present. Wild. Tubers with purple skin and white flesh. Wild. Tuber.
- PI 558364 **origin:** Chile. **collected:** March 17, 1990. **collector id:** CPS 1150. **locality:** Aisen. By beach in small inlet on N side of Isla James. **latitude:** 44 deg. 51 min.. **longitude:** 74 deg. 05 min.. **elevation:** 1m. **remarks:** In dark organic soil intermixed with many shells. 10 plants present. Primitive cultivar. Flowers and fruits absent. Wild. Tuber.
- PI 558365 **origin:** Chile. **collected:** March 18, 1990. **collector id:** CPS 1151. **locality:** Aisen. Near beach at Punta Lobera, a small point (unnamed on topographic map) on the SW end of Isla James, S of S end of Isla Williams. **latitude:** 44 deg. 59 min.. **longitude:** 74 deg. 22 min.. **elevation:** 1m. **remarks:** In sandy organic soil, among grasses. Thousands of plants present. Wild. Tubers with pink skin and white flesh, flowers with blue petals, fruits absent. Wild. Tuber.

- PI 558366 **origin:** Chile. **collected:** March 19, 1990. **collector id:** CPS 1152. **locality:** Aisen. Near beach on S side of Isla Gran Guaiteca (at Playa Chureo), due E of Isla Cae, SW of Laguna Los Chureos. **latitude:** 44 deg. 55 min.. **longitude:** 73 deg. 59 min.. **elevation:** 1m. **remarks:** In sandy soil. Hundreds of plants present. Wild. Flowers white, fruits absent, stolons up to 2.5 m long, tubers with white skin and white flesh, very few tubers produced. Wild. Tuber.
- PI 558367 **origin:** Chile. **collected:** March 12, 1990. **collector id:** CPS 4543. **locality:** Aisen. Near seashore, at Puerto Pescadores, E of Isla Huemules. **latitude:** 45 deg. 59 min.. **longitude:** 73 deg. 38 min.. **elevation:** 1m. **remarks:** Rocky soil with organic matter, by abandoned fishing camp. Tubers with red skin, white flesh, apparently a modern, recently-introduced cultivar, flowers and fruits absent. Wild. Tuber.
- PI 558368 **origin:** Chile. **collected:** March 12, 1990. **collector id:** CPS 4542. **locality:** Aisen. Near seashore, at Puerto Pescadores, E of Isla Huemules. **latitude:** 45 deg. 59 min.. **longitude:** 73 deg. 38 min.. **elevation:** 1m. **remarks:** 25 plants present. Wild. Tubers with yellow skin, white flesh, apparently a modern cultivar, flowers and fruit absent. Wild. Tuber.
- PI 558369 **origin:** Chile. **collected:** March 19, 1990. **collector id:** CPS 1153. **locality:** Aisen. Near beach on S side of Isla Gran Guaitecas, at Playa Chiquanite, ca. 2 km SW of SW end of Isla Cae. **latitude:** 43 deg. 55 min.. **longitude:** 73 deg. 58 min.. **elevation:** 1m. **remarks:** In sandy soil. Tubers with purple skin, fruits present. 100 plants present. Wild. Also collected as tubers. Wild. Seed.

PI 558370 to 558372. *Solanum agrimonifolium* Rydb. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

- PI 558370 **donor id:** SHGRF 4208. **origin:** Mexico. **collected:** September 24, 1988. **collector id:** SHGF 4208. **locality:** 6.9 km N of Route 190 beginning S of Motozintla de Mendoza on road to Siltepec, in woods on W side of road, in Ejido Benito Juarez. **latitude:** 15 deg. 22 min.. **longitude:** 92 deg. 17 min.. **elevation:** 2005m. **remarks:** Flowers rotate, blue with white streaks from the center to the tips of petals, fruit long-ovoid, green. Wild. Seed.

PI 558370 to 558372-continued

PI 558371 **donor id:** SHGRF 4211. **origin:** Mexico. **collected:** September 24, 1988. **collector id:** SHGF 4211. **locality:** Cerro del Boqueron at Barrio Pizarrin, in woods, on W side of road, 17.4 km N of Route 190 of Motozintla de Mendoza on road to Siltepec. **latitude:** 15 deg. 25 min.. **longitude:** 92 deg. 18 min.. **elevation:** 2330m. **remarks:** Openings in woods. Most plants immature with few or no flowers, this collection with mature fruits, fruits long-ovoid, tapering to apex, stems to 0.7 m long. Wild. Seed.

PI 558372 **donor id:** SHGRF 4227. **origin:** Mexico. **collected:** September 29, 1988. **collector id:** SHGF 4227. **locality:** 12.1 km along road to microwave tower of Tzontehuitz, from San Cristobal de las Casas-Tenejapa road, 0.1 km downhill from microwave tower, along roadside. **latitude:** 16 deg. 20 min.. **longitude:** 92 deg. 17 min.. **elevation:** 2790m. **remarks:** Flowers blue, rotate, fruit ovate-conical, verrucose. Wild. Seed.

PI 558373 to 558377. *Solanum bulbocastanum* Dunal subsp. *bulbocastanum*
SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558373 **donor id:** SHGRF 4054. **origin:** Mexico. **collected:** August 28, 1988. **collector id:** SHG 4054. **locality:** Along road from Zitacuaro to San Andres to Cerro El Cacique, 1.8 km past San Andres town square. **latitude:** 19 deg. 25 min.. **longitude:** 100 deg. 18 min.. **elevation:** 2250m. **remarks:** Growing among volcanic boulders on ground and walls. No mature fruits found. Wild. Tuber.

PI 558374 **donor id:** SHGRF 4057. **origin:** Mexico. **collected:** August 29, 1988. **collector id:** SHG 4057. **locality:** In field on NW corner of Route 15 and road to Maravatio. **latitude:** 19 deg. 42 min.. **longitude:** 100 deg. 31 min.. **elevation:** 2080m. **remarks:** In grass field with *Opuntia* and low shrubs; very rocky soil. Wild. Seed.

PI 558375 **donor id:** SHGRF 4078. **origin:** Mexico. **collected:** August 31, 1988. **collector id:** SHG 4078. **locality:** At km 21 marker along Route 120 S of Morelia, on W side of Route 120. **latitude:** 19 deg. 35 min.. **longitude:** 101 deg. 18 min.. **elevation:** 2080m. **remarks:** In rocky soil among cacti and shrubs. Plants 0.5 m tall; flowers stellate and cream colored. Also collected as tubers. Wild. Seed.

PI 558373 to 558377-continued

PI 558376 donor id: SHGRF 4174. origin: Mexico. collected: September 19, 1988. collector id: SHGF 4174. locality: Along E side of Route 175, 14.2 km S of S end of Miahuatlan de Porfirio Diaz. latitude: 16 deg. 15 min.. longitude: 96 deg. 34 min.. elevation: 1990m. remarks: In oak savanna, growing among rocks. Flowers stellate and cream-colored, fruits round. Wild. Seed.

PI 558377 donor id: SHGRF 4185. origin: Mexico. collected: September 20, 1988. collector id: SHGF 4185. locality: 9.0 km SW of town square of Santa Catarina Cuixtla, SW of Miahuatlan de Porfirio Diaz, at km 16.5. latitude: 16 deg. 16 min.. longitude: 96 deg. 41 min.. elevation: 2090m. remarks: Open rocky hillside. Some plants have leaves with lateral leaflets; flowers stellate and cream, fruits round and green. Wild. Seed.

PI 558378 to 558379. *Solanum bulbocastanum* subsp. *partitum* (Correll)
Hawkes SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558378 donor id: SHGRF 4222. origin: Mexico. collected: September 27, 1988. collector id: SHGF 4222. locality: On NE side of Route 190 near Atenango del Valle, 1.8 km SE of junction of this road and road to Las Rosas. latitude: 16 deg. 30 min.. longitude: 92 deg. 28 min.. elevation: 1800m. remarks: By sand quarry, in recently disturbed soil. Flowers stellate and cream colored, fruit round, light green with slightly darker green streaking. Wild. Seed.

PI 558379 donor id: SHGRF 4224. origin: Mexico. collected: September 27, 1988. collector id: SHGF 4224. locality: 9.4 km S of Route 190 (from near Teopisca), to Las Rosas. latitude: 16 deg. 10 min.. longitude: 92 deg. 12 min.. elevation: 1720m. remarks: Growing among spiny shrubs. Most plants without fruits. Wild. Seed.

PI 558380. *Solanum cardiophyllum* Lindley var. *cardiophyllum* SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558380-continued

donor id: SHGRF 4108. origin: Mexico. collected:
September 04, 1988. collector id: SHGR 4108. locality:
At Rio Blanco, a small village just N of Guadalajara.
latitude: 20 deg. 48 min.. longitude: 103 deg. 24 min..
elevation: 1500m. remarks: In cornfield. No fruits but
two small tubers found. Wild. Tuber.

PI 558381 to 558384. *Solanum clarum* Correll SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula
Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558381 donor id: SHGRF 4215. origin: Mexico. collected:
September 25, 1988. collector id: SHGF 4215. locality:
On Mt. Male, 2.2 km N of town center of El Porvenir on
road N to Male. latitude: 15 deg. 28 min.. longitude:
92 deg. 16 min.. elevation: 2840m. remarks: In moss
under large tree, with tree ferns. Petals light violet,
tubers dark violet, most tubers young, flowers common,
but fruits absent, flowers petals reflexed, stellate,
whitish-purple. Wild. Tuber.

PI 558382 donor id: SHGRF 4216. origin: Mexico. collected:
September 25, 1988. collector id: SHGF 4216. locality:
1.1 km N of town square of El Porvenir on road to
Siltepec. latitude: 15 deg. 28 min.. longitude: 92 deg.
16 min.. elevation: 2740m. remarks: Moss-covered ground
in mature forest on rotting tree trunks. Most tubers
young, flower petals reflexed, stellate, and
whitish-purple, fruits absent. Wild. Tuber.

PI 558383 donor id: SHGRF 4217. origin: Mexico. collected:
September 25, 1988. collector id: SHGF 4217. locality:
6.4 km S of town square of El Porvenir, on E side of road
to Route 190 S of Motozintla de Mendoza. latitude: 15
deg. 28 min.. longitude: 92 deg. 16 min.. elevation:
2740m. remarks: Near wet mountain meadow, growing in
moss in shade of trees. Most tubers young, flowers
stellate, whitish-purple, fruits fruits absent. Wild.
Tuber.

PI 558381 to 558384-continued

PI 558384 donor id: SHGRF 4218. origin: Mexico. collected: September 25, 1988. collector id: SHGF 4218. locality: 9.1 km S of town square of El Porvenir on road to Route 190 S of Motozintla de Mendoza, about 50 km E of road. latitude: 15 deg. 27 min.. longitude: 92 deg. 16 min.. elevation: 2830m. remarks: In mature pine forest in a dense cover of pine needles. Most plants immature, but a few plants with mature fruits; flowers stellate, whitish-purple, fruits round, light green. Also collected as tubers. Wild. Seed.

PI 558385 to 558393. *Solanum demissum* Lindley SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558385 donor id: SHGRF 4008. origin: Mexico. collected: August 22, 1988. collector id: SHG 4008. locality: 100 km S of junction of Route 130 and road to Nvo. de Toluca, near La Puerta. latitude: 19 deg. 13 min.. longitude: 99 deg. 47 min.. elevation: 3080m. remarks: Picea forest. Flowers shaped rotate and colored dark blue. Wild.

PI 558386 donor id: SHGRF 4010. origin: Mexico. collected: August 22, 1988. collector id: SHG 4010. locality: Near roadside, near junction of road S of Route 130 and spur road that goes directly to the top of Nvo. de Toluca. latitude: 19 deg. 09 min.. longitude: 99 deg. 48 min.. elevation: 3465m. remarks: Fruits round, blunt leaves. Wild. Seed.

PI 558387 donor id: SHGRF 4017. origin: Mexico. collected: August 23, 1988. collector id: SHG 4017. locality: On road to top of Nvo. de Toluca, E of Route 3, S of Route 120. latitude: 19 deg. 08 min.. longitude: 99 deg. 47 min.. elevation: 3800m. remarks: Eroded hillside in pine forest. Fruits shaped round. Wild. Seed.

PI 558388 donor id: SHGRF 4041. origin: Mexico. collected: August 27, 1988. collector id: SHG 4041. locality: On slope on N side of Route 15, 7 miles E of Macho de Agua (E of Zitacuaro), 0.3 km W of Mexico-Michoacan states border. latitude: 19 deg. 27 min.. longitude: 100 deg. 12 min.. elevation: 2820m. remarks: In pine woods. Wild. Seed.

PI 558385 to 558393-continued

- PI 558389 donor id: SHGRF 4261. origin: Mexico. collected: October 15, 1988. collector id: SG 4261. locality: On slope on N side of Route 15, 7 miles E of Macho de Agua (E of Zitacuaro), 0.3 km W of Mexico-Michoacan states border. latitude: 19 deg. 27 min.. longitude: 100 deg. 12 min.. elevation: 2820m. remarks: In pine woods. Wild. Seed.
- PI 558390 donor id: SHGRF 4045. origin: Mexico. collected: August 27, 1988. collector id: SHG 4045. locality: At Rancho La Piedra, at top of microwave tower road, N of Route 15, just E of Mexico-Michoacan border. latitude: 19 deg. 29 min.. longitude: 100 deg. 12 min.. elevation: 3000m. remarks: Many round fruits. Wild. Seed.
- PI 558391 donor id: SHGRF 4062. origin: Mexico. collected: August 29, 1988. collector id: SHG 4062. locality: 20 km N of road from Route 15 just W of Cd. Hidalgo, N past San Pedro Jacuaro to Ucareo-Querendaro Road, by Los Tejamaniles. latitude: 19 deg. 48 min.. longitude: 100 deg. 39 min.. elevation: 2700m. remarks: In pine forest. Wild. Seed.
- PI 558392 donor id: SHGRF 4064. origin: Mexico. collected: August 29, 1988. collector id: SHG 4064. locality: 21 km N of Route 15; at junction of road N of Route 15 just W of Cd. Hidalgo, past San Pedro Jacuaro and road to steam wells at Los Azufres. latitude: 19 deg. 49 min.. longitude: 100 deg. 39 min.. elevation: 2750m. remarks: In pine forest. Collected as brachycarpum. Wild. Seed.
- PI 558393 donor id: SHGRF 4266. origin: Mexico. collected: October 17, 1988. collector id: SG 4266. locality: Just N of steam power station on W side of road from Route 15, W of Cd Hidalgo to Ucareo-Querendaro Road, 4 km N of Laguna Larga. latitude: 19 deg. 49 min.. longitude: 100 deg. 40 min.. elevation: 2280m. remarks: Growing at edge of pine fir forest. Most plant immature. Wild. Seed.

PI 558394 to 558398. *Solanum fendleri* A. Gray subsp. *fendleri*
SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558394 to 558398-continued

- PI 558394 **donor id:** SHGRF 4234. **origin:** Mexico. **collected:** October 08, 1988. **collector id:** SG 4234. **locality:** In the Sierra la Laguna, on a footpath to La Laguna marsh on top of Sierra, ENE of Todos Santos. **latitude:** 23 deg. 32 min.. **longitude:** 110 deg. 03 min.. **elevation:** 1180m. **remarks:** In sandy soil among Leguminosae shrubs. Fruits mature, round, and white to very light green, flowersabsent; stems to 0.3 m long. Wild. Seed.
- PI 558395 **donor id:** SHGRF 4237. **origin:** Mexico. **collected:** October 08, 1988. **collector id:** SG 4237. **locality:** In the Sierra la Laguna, on a footpath to La Laguna, marsh on top of Sierra, ENE of Todos Santos. **latitude:** 23 deg. 32 min.. **longitude:** 110 deg. 01 min.. **elevation:** 1600m. **remarks:** Growing with Soltole and Quercus. Fruits mature. Wild. Seed.
- PI 558396 **donor id:** SHGRF 4239. **origin:** Mexico. **collected:** October 08, 1988. **collector id:** SG 4239. **locality:** In the Sierra La Laguna, on a footpath to La Laguna marsh on top of Sierra, ENE of Todos Santos. **latitude:** 23 deg. 32 min.. **longitude:** 109 deg. 99 min.. **elevation:** 1750m. **remarks:** In pine oak forest. Flowers absent, fruits round, green with white mottling. Wild. Seed.
- PI 558397 **donor id:** SHGRF 4241. **origin:** Mexico. **collected:** October 11, 1988. **collector id:** SG 4241. **locality:** At rail road km 171.5, about 3 km SW of Bauchivo Rail road station, Los Mochis-Chihuahua rail road, about 250 m SE of rail road line across stream. **latitude:** 27 deg. 18 min.. **longitude:** 108 deg. 05 min.. **elevation:** 1550m. **remarks:** Oak juniper forest. Most plants dead, only very mature fruits remaining; flowersabsent, fruit round, dark green with white spots. Wild. Seed.
- PI 558398 **donor id:** SHGRF 4245. **origin:** Mexico. **collected:** October 12, 1988. **collector id:** SG 4245. **locality:** In arroyos on SE side of rail road line at San Rafael, on N side of town. **latitude:** 27 deg. 30 min.. **longitude:** 107 deg. 53 min.. **elevation:** 2150m. **remarks:** In Quercus, Pinus, Madrono forest. Plants almost all dead, fruits very mature. Also collected as tubers. Wild. Seed.

PI 558399 to 558400. *Solanum hintonii* Correll SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558399 to 558400-continued

PI 558399 donor id: SHGRF 4033. origin: Mexico. collected: August 25, 1988. collector id: SHG 4033. locality: 6.5 km SW of Temascaltepec-Valle de Bravo road, on road to San Pedro Tenayac, on S side of road, about 50 m downstream of bridge over road. latitude: 19 deg. 02 min.. longitude: 100 deg. 06 min.. elevation: 1860m. remarks: Along streambank in area with pine and oak; some in moss. Flowers stellate and white, fruit conical, green and white mottle. Wild. Seed.

PI 558400 donor id: SHGRF 4034. origin: Mexico. collected: August 25, 1988. collector id: SHG 4034. locality: 6.5 km SW of Temascaltepec-Valle de Bravo road, on road to San Pedro Tenayac, on N side of road, about 100 m upstream of bridge over road. latitude: 19 deg. 02 min.. longitude: 100 deg. 06 min.. elevation: 1860m. remarks: By streamside. Wild. Seed.

PI 558401 to 558407. *Solanum hougasii* Correll SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States. Received October 20, 1989.

PI 558401 donor id: SHGRF 4091b. origin: Mexico. collected: September 01, 1988. collector id: SHG 4091b. locality: Along microwave tower road off dirt road beginning about 5 km NE of Capacuaro, about 6.5 km from beginning of this microwave tower road. latitude: 19 deg. 35 min.. longitude: 102 deg. 02 min.. elevation: 3000m. remarks: Pine-oak woods, in recently burned-over area. Plants not yet in fruit; flowers rotate-stellate and colored light blue and white mottled. Wild. Seed.

PI 558402 donor id: SHGRF 4124. origin: Mexico. collected: September 07, 1988. collector id: SHGR 4124. locality: New microwave tower road to top of Nevado de Colima, 24 km from beginning of this road which begins about 0.5 km SE of La Mesa y el Fresno. latitude: 19 deg. 34 min.. longitude: 103 deg. 35 min.. elevation: 3135m. remarks: Flowers white, rotate-stellate, fruits verrucose; plants to 0.3 m tall. Also collected as tubers. Wild. Seed.

PI 558401 to 558407-continued

- PI 558403 **donor id:** SHGRF 4129. **origin:** Mexico. **collected:** September 08, 1988. **collector id:** SHGR 4129. **locality:** On microwave tower road 8.8 km S of Alista-La Mesa y el Fresno road, road begins just E of Sayulapa, next to Microwave tower Viboras. **latitude:** 19 deg. 36 min.. **longitude:** 103 deg. 35 min.. **elevation:** 2920m. **remarks:** In open grassy field in rocky soil. Flowers rotate-stellate, and white; plants to 0.4 m tall. Wild. Tuber.
- PI 558404 **donor id:** SHGRF 4132. **origin:** Mexico. **collected:** September 08, 1988. **collector id:** SHGR 4132. **locality:** On microwave tower road which begins just E of Sayulapa on Alista-La Mesa y el Fresno road, 3.3 km from top of microwave tower of Viboras. **latitude:** 19 deg. 37 min.. **longitude:** 103 deg. 35 min.. **elevation:** 2700m. **remarks:** Flowers rotate-stellate, rose-blue and white, fruits round-ellipsoid. Wild. Seed.
- PI 558405 **donor id:** SHGRF 4273. **origin:** Mexico. **collected:** October 18, 1988. **collector id:** SG 4273. **locality:** On S side of Cerro Burro, on road to microwave tower, 4 km N of Opopeo-Tucambaro de Codallos Road. **latitude:** 19 deg. 25 min.. **longitude:** 102 deg. 32 min.. **elevation:** 2950m. **remarks:** In loose soil by roadside, in pine oak fir forest. No flowers, fruits verrucose, elliptic. Wild. Seed.
- PI 558406 **donor id:** SHGRF 4285. **origin:** Mexico. **collected:** October 20, 1988. **collector id:** SG 4285. **locality:** 12.6 km W of town square of Nuevo San Juan Parangaricutiro, on road to Tancitaro. **latitude:** 19 deg. 24 min.. **longitude:** 102 deg. 14 min.. **elevation:** 2350m. **remarks:** Disturbed soil of landfall on S side of road, pine woods. Flowers and mature fruits present. Wild. Seed.
- PI 558407 **donor id:** SHGRF 4286. **origin:** Mexico. **collected:** October 20, 1988. **collector id:** SG 4286. **locality:** Along roadside, 8.2 km from dirt road NE of Capacuaro, on road to microwave tower. **latitude:** 19 deg. 35 min.. **longitude:** 102 deg. 02 min.. **elevation:** 3050m. **remarks:** Disturbed soil in pine oak fir forest, recently burned. Wild. Tuber.

PI 558408. Solanum hybrid SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

donor id: SHGRF 4110. **origin:** Mexico. **collected:** September 05, 1988. **collector id:** SHGR 4110. **locality:** Bosque Escuela de Universidad de Guadalajara, about 3 km NW of Cuxpala, about 10 km SSE of Tala, about 2 km N of Observatory Building. **latitude:** 20 deg. 35 min.. **longitude:** 103 deg. 39 min.. **elevation:** 1440m. **remarks:** By streamside in Quercus resinosa and Acacia forest. Plants with general appearance of bulbocastanium but leaves with lateral leaflets; S. cardiophyllum grows in the area. Wild. Tuber.

PI 558409 to 558433. Solanum iopetalum (Bitter) Hawkes SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558409 **donor id:** SHGRF 4021. **origin:** Mexico. **collected:** August 24, 1988. **collector id:** SHG 4021. **locality:** On S side of road from Route 130 (134) to Valle de Bravo, 3 km W of Rt 130. **latitude:** 19 deg. 10 min.. **longitude:** 99 deg. 56 min.. **elevation:** 3350m. **remarks:** In pine forest. Fruits very small during this time. Collected as brachycarpum. Wild. Seed.

PI 558410 **donor id:** SHGRF 4024a. **origin:** Mexico. **collected:** August 24, 1988. **collector id:** SHG 4024a. **locality:** About 0.25 km S of road from Route 130 (134) to Valle de Bravo, 8 km E of Route 130. **latitude:** 19 deg. 10 min.. **longitude:** 100 deg. 00 min.. **elevation:** 2900m. **remarks:** In shaded pine forest in rich loamy soil on floodplain. Fruits possibly immature at this time; flowers shaped rotate and colored light blue with some white streaking; plants 0.2 m tall. Also collected as tubers. Collected as S. brachycarpum. Wild. Seed.

PI 558411 **donor id:** SHGRF 4250. **origin:** Mexico. **collected:** October 15, 1988. **collector id:** SG 4250. **locality:** About 0.25 km S of road from Route 130 (134) to Valle de Bravo, 8 km E of Rt 130. **latitude:** 19 deg. 10 min.. **longitude:** 100 deg. 00 min.. **elevation:** 2900m. **remarks:** In shaded pine forest in rich loamy soil, on floodplain. Fruits elliptical. Collected as brachycarpum. Wild. Seed.

PI 558409 to 558433-continued

- PI 558412 donor id: SHGRF 4026. origin: Mexico. collected: August 24, 1988. collector id: SHG 4026. locality: About 200 m N of road from Route 130 (134) to Valle de Bravo, 2 km E of San Ramon. latitude: 19 deg. 10 min.. longitude: 100 deg. 01 min.. elevation: 2450m. remarks: In pine forest. Collected as brachycarpum. Wild. Seed.
- PI 558413 donor id: SHGRF 4255. origin: Mexico. collected: October 15, 1988. collector id: SG 4255. locality: About 200 m N of road from Route 130 (134) to Valle de Bravo, 2 km E of San Ramon. latitude: 19 deg. 10 min.. longitude: 100 deg. 01 min.. elevation: 2450m. remarks: In pine forest. Collected as brachycarpum. Wild. Seed.
- PI 558414 donor id: SHGRF 4040. origin: Mexico. collected: August 27, 1988. collector id: SHG 4040. locality: On slope on N side of Route 15, 7 miles E of Macho de Agua (E of Zitacuaro), 0.3 km W of Mexico-Michoacan states border. latitude: 10 deg. 27 min.. longitude: 100 deg. 12 min.. elevation: 2820m. remarks: In pine woods. Flowers rotate-stellate and colored dark pinkish blue. Collected as brachycarpum. Wild. Seed.
- PI 558415 donor id: SHGRF 4260. origin: Mexico. collected: October 15, 1988. collector id: SG 4260. locality: On slope on N side of Route 15, 7 miles E of Macho de Agua (E of Zitacuaro), 0.3 km W of Mexico-Michoacan states border. latitude: 19 deg. 27 min.. longitude: 100 deg. 12 min.. elevation: 2820m. remarks: In pine woods. Collected as brachycarpum. Wild. Seed.
- PI 558416 donor id: SHGRF 4049. origin: Mexico. collected: August 27, 1988. collector id: SHG 4049. locality: About 2 km S of Route 15 on gravel road beginning just E of Macho de Agua. latitude: 19 deg. 25 min.. longitude: 100 deg. 13 min.. elevation: 2850m. remarks: In recently cut-over Pinus, Abies forest. Collected as brachycarpum. Wild. Seed.
- PI 558417 donor id: SHGRF 4050. origin: Mexico. collected: August 28, 1988. collector id: SHG 4050. locality: SE side of Cerro El Cacique, about 6.5 km E of main road S from Zitacuaro. latitude: 19 deg. 23 min.. longitude: 100 deg. 18 min.. elevation: 2300m. remarks: In mixed oak woods. Collected as brachycarpum. Wild. Seed.
- PI 558418 donor id: SHGRF 4052. origin: Mexico. collected: August 28, 1988. collector id: SHG 4052. locality: SE side of Cerro El Cacique, E of main road, S from Zitacuaro. latitude: 19 deg. 23 min.. longitude: 100 deg. 18 min.. elevation: 2350m. remarks: In mixed oak woods. Collected as brachycarpum. Wild. Seed.

- PI 558419 **donor id:** SHGRF 4060. **origin:** Mexico. **collected:** August 29, 1988. **collector id:** SHG 4060. **locality:** 20 km N of road from Route 15 just W of Cd. Hidalgo, N past San Pedro Jacuaro to Ucareo-Querendaro Road, by Los Tejamaniles. **latitude:** 19 deg. 48 min.. **longitude:** 100 deg. 39 min.. **elevation:** 2700m. **remarks:** In pine forest. Collected as brachycarpum. Wild. Seed.
- PI 558420 **donor id:** SHGRF 4065. **origin:** Mexico. **collected:** August 29, 1988. **collector id:** SHG 4065. **locality:** One km N of Laguna Larga, on road N of Route 15 diverting just E of Cd. Hidalgo, past San Pedro Jacuaro, 17 km S of Ucareo-Querendaro Road. **latitude:** 19 deg. 50 min.. **longitude:** 100 deg. 40 min.. **elevation:** 2750m. **remarks:** In recently disturbed soil on slope near road, Abies forest. Collected as brachycarpum. Wild. Seed.
- PI 558421 **donor id:** SHGRF 4086b. **origin:** Mexico. **collected:** September 01, 1988. **collector id:** SHG 4086b. **locality:** Along dirt road, 1.7 km NE of Capacuaro, on S side of road. **latitude:** 19 deg. 34 min.. **longitude:** 102 deg. 01 min.. **elevation:** 2320m. **remarks:** In oak forest. Flowers galled and enlarged with red larvae inside, no mature fruits present; flowers rotate and dark pinkish-blue. Collected as brachycarpum. Wild.
- PI 558422 **donor id:** SHGRF 4116. **origin:** Mexico. **collected:** September 06, 1988. **collector id:** SHGR 4116. **locality:** At San Isidro, on road from Llanitos to Cruz de Garibay, S of Cd Guzman, 7.4 km N of Alotitlan, on W side of road by streamside. **latitude:** 19 deg. 19 min.. **longitude:** 103 deg. 17 min.. **elevation:** 1870m. **remarks:** Under shrubs. Fruits somewhat verrucose. Collected as brachycarpum. Wild. Seed.
- PI 558423 **donor id:** SHGRF 4117. **origin:** Mexico. **collected:** September 06, 1988. **collector id:** SHGR 4117. **locality:** On road from Llanitos to Cruz de Garibay, S of Cd. Guzman, 1 km S of Alotitlan, 0.5 km N of church on E side of road, about 100 m W of road. **latitude:** 19 deg. 16 min.. **longitude:** 103 deg. 15 min.. **elevation:** 1910m. **remarks:** Collected as brachycarpum. Wild. Tuber.
- PI 558424 **donor id:** SHGRF 4121. **origin:** Mexico. **collected:** September 07, 1988. **collector id:** SHGR 4121. **locality:** New microwave tower road to top of Nevado de Colima, 16 km from beginning of this road which begins about 0.5 km SE of La Mesa y el Fresnito. **latitude:** 19 deg. 35 min.. **longitude:** 103 deg. 34 min.. **elevation:** 2710m. **remarks:** Abies religiosa forest in very loose black loamy soil. Flowers rotate-stellate, light blue with white mottling. **received as:** Solanum brachycarpum. Wild. Tuber.

PI 558409 to 558433-continued

- PI 558425 donor id: SHGRF 4131. origin: Mexico. collected: September 08, 1988. collector id: SHGR 4131. locality: On microwave tower road which begins just E of Sayulapa on Alista-La Mesa y el Fresno road, 3.1 km from top of microwave tower Viboras. latitude: 19 deg. 37 min.. longitude: 103 deg. 35 min.. elevation: 2700m. remarks: Flowers blue and white-mottled, immature, ellipsoid. Collected as brachycarpum. Wild. Tuber.
- PI 558426 donor id: SHGRF 4133. origin: Mexico. collected: September 08, 1988. collector id: SHGR 4133. locality: On microwave tower road which begins just E of Sayulapa on Alista-La Mesa y el Fresno road, 3.3 km from top of microwave tower of Viboras. latitude: 19 deg. 37 min.. longitude: 103 deg. 35 min.. elevation: 2700m. remarks: Flowers blue, and fruits ellipsoid. Collected as brachycarpum. Wild. Seed.
- PI 558427 donor id: SHGRF 4166. origin: Mexico. collected: September 18, 1988. collector id: SHGF 4166. locality: Along W side of Route 175, S of Miahuatlan de Porfirio Diaz, 10 km S of S end of San Miguel Suchixtepec. latitude: 16 deg. 04 min.. longitude: 96 deg. 30 min.. elevation: 2250m. remarks: Collected as brachycarpum. Wild. Seed.
- PI 558428 donor id: SHGRF 4167. origin: Mexico. collected: September 18, 1988. collector id: SHGF 4167. locality: Along E side of Route 175, S of Miahuatlan de Porfirio Diaz, 2.8 km S of S end of San Miguel Suchixtepec. latitude: 16 deg. 05 min.. longitude: 96 deg. 27 min.. elevation: 2260m. remarks: Pine woods. Collected as brachycarpum. Wild. Seed.
- PI 558429 donor id: SHGRF 4172. origin: Mexico. collected: September 18, 1988. collector id: SHGF 4172. locality: Along E side of Route 175, S of Miahuatlan de Porfirio Diaz, about 20 km N of San Miguel Suchixtepec, at km 134.1 (by posted km signs). latitude: 16 deg. 13 min.. longitude: 96 deg. 32 min.. elevation: 2390m. remarks: Pinus, Quercus, Alnus woods. Collected as brachycarpum. Wild. Seed.
- PI 558430 donor id: SHGRF 4192. origin: Mexico. collected: September 21, 1988. collector id: SHGF 4192. locality: At km 22.5 (by posted km marker), W of main road in Zaachila, on dirt road toward Santa Ines del Monte. latitude: 16 deg. 57 min.. longitude: 96 deg. 51 min.. elevation: 2600m. remarks: Pine oak forest. Collected as brachycarpum. Wild. Seed.

PI 558409 to 558433-continued

- PI 558431 donor id: SHGRF 4200. origin: Mexico. collected: September 22, 1988. collector id: SHGF 4200. locality: 21.8 km N of Ixtlan de Juarez on Route 175 to Tuxtepec. latitude: 17 deg. 28 min.. longitude: 96 deg. 30 min.. elevation: 2870m. remarks: Mature pine oak forest. Fruits long-ovoid, green. Collected as brachycarpum. received as: Solanum brachycarpum. Wild.
- PI 558432 donor id: SHGRF 4265. origin: Mexico. collected: October 17, 1988. collector id: SG 4265. locality: Just N of steam power station on W side of road from Route 15, W of Cd. Hidalgo to Ucareo-Querendaro Road, 4 km N of Laguana Larga. latitude: 19 deg. 49 min.. longitude: 100 deg. 40 min.. elevation: 2880m. remarks: Growing on rotting log in mature pine fir forest. Flowers absent, fruits elliptic. Collected as brachycarpum. Wild. Seed.
- PI 558433 donor id: SHGRF 4274. origin: Mexico. collected: October 18, 1988. collector id: SG 4274. locality: Near top of Cerro Burro road of right-hand fork of road at radio station tower. latitude: 19 deg. 25 min.. longitude: 102 deg. 32 min.. elevation: 3250m. remarks: Pine oak fir forest, in rich organic soil. Plants old, no fruit collected. Collected as brachycarpum. Wild. Tuber.

PI 558434 to 558435. Solanum lesteri Hawkes & Hjert. SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

- PI 558434 donor id: SHGRF 4155. origin: Mexico. collected: September 16, 1988. collector id: SHGF 4155. locality: On W side of Route 125, 3.4 km S of Route 190, just S of San Juan Teposcolula. latitude: 17 deg. 33 min.. longitude: 97 deg. 26 min.. elevation: 2250m. remarks: Growing out of rock wall. Flowers rotate-stellate and white fruits wedge-shaped, tapering from base to apex with median longitudinal groove; 4 plants, strong unpleasant odor of S. polydenium. Wild. Seed.

PI 558434 to 558435-continued

PI 558435 donor id: SHGRF 4177. origin: Mexico. collected: September 19, 1988. collector id: SHGF 4177. locality: Along E side of Route 175, at km 134.1, about 50 m off road; up a slope, S of Miahuatlan de Porfirio Diaz. latitude: 16 deg. 13 min.. longitude: 96 deg. 32 min.. elevation: 2390m. remarks: Quercus, Pinus, Alnus woods. Flowers rotate-stellate and white, fruits wedge-shaped, tapering from base to apex with a median longitudinal groove; plants with un [D [D [D [D [D like S. polyadenium. Wild. Seed.

PI 558436 to 558441. Solanum morelliforme Bitter & Muench SOLANACEAE
Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558436 donor id: SHGRF 4024b. origin: Mexico. collected: August 24, 1988. collector id: SHG 4024b. locality: On S side of road from Route 130 (134) to Valle de Bravo, 2 km E of San Ramon. latitude: 19 deg. 10 min.. longitude: 100 deg. 01 min.. elevation: 2450m. remarks: In pine forest on rotting log. Possibly immature fruits at this time. Wild. Tuber.

PI 558437 donor id: SHGRF 4254. origin: Mexico. collected: August 24, 1988. collector id: SG 4254. locality: On S side of road from Route 130 (134) to Valle de Bravo, 2 km E of San Ramon. latitude: 19 deg. 10 min.. longitude: 100 deg. 01 min.. elevation: 2450m. remarks: In pine forest on rotting log. Wild. Seed.

PI 558438 donor id: SHGRF 4051. origin: Mexico. collected: August 28, 1988. collector id: SHG 4051. locality: SE side of Cerro El Cacique, E of main road, S from Zitacuaro. latitude: 19 deg. 23 min.. longitude: 100 deg. 18 min.. elevation: 2350m. remarks: Mixed oak woods on mossy rock. Flowers shaped stellate and colored white with dark purple center, fruit shaped round and colored green; plants 0.1 m tall. Also collected as tubers. Wild. Seed.

PI 558439 donor id: SHGRF 4088b. origin: Mexico. collected: September 01, 1988. collector id: SHG 4088b. locality: Along dirt road, 1.7 km NE of Capacuaro, on S side of road. latitude: 19 deg. 34 min.. longitude: 102 deg. 01 min.. elevation: 2320m. remarks: Epiphyte of oak trees. Flowers stellate and white, fruits round, green and smooth. Wild. Seed.

PI 558436 to 558441-continued

PI 558440 **donor id:** SHGRF 4219. **origin:** Mexico. **collected:** September 27, 1988. **collector id:** SHGF 4219. **locality:** 2.1 km W of road to microwave tower Laguana Chamula on W side of Route 190. **latitude:** 16 deg. 30 min.. **longitude:** 92 deg. 19 min.. **elevation:** 2400m. **remarks:** Epiphyte on fallen tree. Stems to 0.2 m long; flowers stellate, white, fruit round and light green. Wild. Seed.

PI 558441 **donor id:** SHGRF 4225. **origin:** Mexico. **collected:** September 27, 1988. **collector id:** SHGF 4225. **locality:** 3.3 km N of Route 190 on road to Ocosingo, N side of road. **latitude:** 16 deg. 45 min.. **longitude:** 92 deg. 35 min.. **elevation:** 2300m. **remarks:** On rotting log in mature woods. Wild. Seed.

PI 558442. *Solanum pinnatisectum* Dunal SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

donor id: SHGRF 4079. **origin:** Mexico. **collected:** August 31, 1988. **collector id:** SHG 4079. **locality:** On E side of Route 120, at km 21 marker along Route 120 S of Morelia. **latitude:** 19 deg. 35 min.. **longitude:** 101 deg. 18 min.. **elevation:** 2080m. **remarks:** Flowers stellate, white. Wild.

PI 558443 to 558445. *Solanum polyadenium* Greenman SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558443 **donor id:** SHGRF 4067. **origin:** Mexico. **collected:** August 30, 1988. **collector id:** SHG 4067. **locality:** On S slope of Cerro Punhuato, N of Route 15, about 2 km E of E end of Morelia, about 100 m from television tower. **latitude:** 19 deg. 41 min.. **longitude:** 101 deg. 07 min.. **elevation:** 2150m. **remarks:** Plants 1.3 m tall; flowers shaped rotate-stellate and colored white, fruits round. Wild. Seed.

PI 558443 to 558445-continued

- PI 558444 donor id: SHGRF 4076. origin: Mexico. collected: August 30, 1988. collector id: SHG 4076. locality: On E side of Route 120 S of Morelia, about 0.5 km N of El Reparo. latitude: 19 deg. 34 min.. longitude: 101 deg. 18 min.. elevation: 2080m. remarks: Flowers shaped rotate-stellate, colored white, fruit shaped round. Wild. Seed.
- PI 558445 donor id: SHGRF 4081. origin: Mexico. collected: August 31, 1988. collector id: SHG 4081. locality: along Route 120 S of Morelia, 27.5 km (by roadside markers), S of Morelia. latitude: 19 deg. 34 min.. longitude: 101 deg. 21 min.. elevation: 2080m. Wild. Seed.

PI 558446 to 558455. *Solanum polytrichon* Rydb. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

- PI 558446 donor id: SHGRF 4086a. origin: Mexico. collected: September 02, 1988. collector id: SHGR 4086a. locality: On N side of Route 15 W of Guadalajara, about 3 km W of La Venta. latitude: 20 deg. 43 min.. longitude: 103 deg. 34 min.. elevation: 1670m. remarks: Pine-oak savanna. Flowers rotate-stellate and white. Wild.
- PI 558447 donor id: SHGRF 4093. origin: Mexico. collected: September 03, 1988. collector id: SHGR 4093. locality: Along Volcan Tequila microwave tower road S of city of Tequila, 8.6 km from rail road tracks at base of Volcan Tequila. latitude: 20 deg. 49 min.. longitude: 103 deg. 51 min.. elevation: 2000m. remarks: Quercus resinosa woods, growing out of a large stone. Wild. Seed.
- PI 558448 donor id: SHGRF 4109. origin: Mexico. collected: September 05, 1988. collector id: SHGR 4109. locality: Bosque Escuela de Universidad de Guadalajara, about 3 km NW of Cuxpala, about 10 km SSE of Tala, about 2 km N of Observatory Building. latitude: 20 deg. 35 min.. longitude: 103 deg. 39 min.. elevation: 1440m. remarks: By streamside in Quercus resinosa and Acacia forest. Flowers shaped rotate-stellate and white, fruit round, dark green above, fading to lighter green below. Wild. Seed.

- PI 558449 **donor id:** SHGRF 4118. **origin:** Mexico. **collected:** September 07, 1988. **collector id:** SHGR 4118. **locality:** New microwave tower road to top of Nevado de Colima, at edge of cornfield, 6 km from beginning of this road which begins about 0.5 km SE of La Mesa y el Fresno. **latitude:** 19 deg. 35 min.. **longitude:** 103 deg. 32 min.. **elevation:** 1775m. **remarks:** Fruits shaped round and colored very light green with some dark streaking. Wild. Seed.
- PI 558450 **donor id:** SHGRF 4137. **origin:** Mexico. **collected:** September 09, 1988. **collector id:** SHGR 4137. **locality:** On microwave tower road to Cerro Grande, SE of Santa Fe, 1.1 km downhill of top of town. **latitude:** 20 deg. 30 min.. **longitude:** 103 deg. 02 min.. **elevation:** 2220m. **remarks:** Frequent in oak forest. Fruits somewhat verrucose; flowers rotate-stellate and white, fruits round, green with whitish bumps. Wild. Seed.
- PI 558451 **donor id:** SHGRF 4140. **origin:** Mexico. **collected:** September 09, 1988. **collector id:** SHGR 4140. **locality:** On microwave tower road to Cerro Grande, SE of Santa Fe, 0.7 km downhill of top of tower. **latitude:** 20 deg. 30 min.. **longitude:** 103 deg. 02 min.. **elevation:** 2230m. **remarks:** Frequent in oak forest. Fruits somewhat verrucose. Wild. Seed.
- PI 558452 **donor id:** SHGRF 4144. **origin:** Mexico. **collected:** September 10, 1988. **collector id:** SHGR 4144. **locality:** 2.4 km NE of Route 45, on dirt road between Lagos de Moreno and Leon, dirt road begins 15.6 km NW of Jalisco-Guanajuato states border. **latitude:** 21 deg. 17 min.. **longitude:** 101 deg. 47 min.. **elevation:** 2000m. **remarks:** In woods adjacent to cornfields. Plants sterile. Wild. Tuber.
- PI 558453 **donor id:** SHGRF 4145. **origin:** Mexico. **collected:** September 10, 1988. **collector id:** SHGR 4145. **locality:** 2.4 km NE of Route 45 on dirt rd in between Lagos de Moreno and Leon, dirt road begins 15.6 km NW of Jalisco-Guanajuato states border. **latitude:** 21 deg. 17 min.. **longitude:** 101 deg. 47 min.. **elevation:** 2000m. **remarks:** Growing in cornfields. Plants with mature fruits; fruits round, very light green with some darker green mottling. Wild. Seed.
- PI 558454 **donor id:** SHGRF 4146. **origin:** Mexico. **collected:** September 10, 1988. **collector id:** SHG 4146. **locality:** On E side of Route 57, SE of San Juan del Rio, about 2 km N of Palmillas. **latitude:** 20 deg. 20 min.. **longitude:** 99 deg. 56 min.. **elevation:** 2150m. Wild. Seed.

PI 558446 to 558455-continued

PI 558455 donor id: SHGRF 4149. origin: Mexico. collected: September 10, 1988. collector id: SHG 4149. locality: On E side of Route 57, SE of San Juan del Rio, about 2 km N of Palmillas. latitude: 20 deg. 20 min.. longitude: 91 deg. 56 min.. elevation: 2150m. Wild. Seed.

PI 558456 to 558458. *Solanum schenckii* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558456 donor id: SHGRF 4194. origin: Mexico. collected: September 22, 1988. collector id: SHGF 4194. locality: In clearing in shrubs around microwave tower, 1.9 km SE of Route 175 N of Oaxaca City, on road to Yuvilia, about 16 km NNE of outer Oaxaca City. latitude: 17 deg. 09 min.. longitude: 96 deg. 36 min.. elevation: 2690m. remarks: Area of oak woods. Fruit ovoid, green with white mottling. Wild. Seed.

PI 558457 donor id: SHGRF 4199. origin: Mexico. collected: September 22, 1988. collector id: SHGF 4199. locality: Along E side of Route 175, 17.9 km N of N entrance to Ixtlan de Juarez, about 0.5 km S of posted km 137 sign. latitude: 17 deg. 27 min.. longitude: 96 deg. 30 min.. elevation: 2720m. Wild. Seed.

PI 558458 donor id: SHGRF 4231. origin: Mexico. collected: September 30, 1988. collector id: SHGF 4231. locality: Toll road from Orizaba to Puebla, at km 228 (by posted km signs), by bridge crossing, about 5 km E of Esperanza rail road station. latitude: 18 deg. 51 min.. longitude: 97 deg. 21 min.. elevation: 2600m. remarks: Growing under Pinus and Agave. Wild. Seed.

PI 558459 to 558461. *Solanum stenophyllidium* Bitter SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558459 donor id: SHGRF 4091a. origin: Mexico. collected: September 03, 1988. collector id: SHGR 4091a. locality: On W side of microwave tower road on Volcan Tequila, 5.5 km N of rail road tracks at base of Volcan Tequila just S of town of Tequila. latitude: 20 deg. 49 min.. longitude: 103 deg. 51 min.. elevation: 1600m. remarks: In Quercus resinosa forest among volcanic rocks. Wild. Seed.

PI 558459 to 558461-continued

- PI 558460 donor id: SHGRF 4104. origin: Mexico. collected: September 04, 1988. collector id: SHGR 4104. locality: Road from N side of Guadalajara, past side road to San Francisco Tesistan to San Cristobal de la Barranca, on W side of road, 20.5 km (by posted km signs), N of Guadalajara, about 0.5 km S of Mirador. latitude: 21 deg. 00 min.. longitude: 103 deg. 25 min.. elevation: 1400m. remarks: Quercus resinosa savanna, rocky soil, recently burned area. Flowers stellate and white, plants 0.1 dm tall, wide variation of leaf shapes in this population. Wild. Seed.
- PI 558461 donor id: SHGRF 4113. origin: Mexico. collected: September 05, 1988. collector id: SHGR 4113. locality: Bosque Escuela de Universidad de Guadalajara, about 3 km Cuxpala, about 10 km SSE of Tala, about 2 km N of Observatory Building. latitude: 20 deg. 35 min.. longitude: 103 deg. 39 min.. elevation: 1440m. remarks: By streamside in Quercus resinosa and Acacia forest. Wild. Tuber.

PI 558462 to 558477. *Solanum stoloniferum* Schldl. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

- PI 558462 donor id: SHGRF 4005. origin: Mexico. collected: August 21, 1988. collector id: SHG 4005. locality: Along roadside by cornfield just NE of Calimaya, about 2 km W of Route 55, S of Toluca. latitude: 19 deg. 10 min.. longitude: 99 deg. 37 min.. elevation: 2600m. remarks: Plants 0.2 m tall; flowers shaped rotate-stellate and color pinish-blue with white lines to petal lobes, darker blue behind. Wild. Seed.
- PI 558463 donor id: SHGRF 4011. origin: Mexico. collected: August 23, 1988. collector id: SHG 4011. locality: Along road to top of Nvo. de Toluca, 3 km from turnoff with route 3 S of Rt 120; near Caseta de Cobro station. latitude: 19 deg. 08 min.. longitude: 99 deg. 47 min.. elevation: 3630m. remarks: On sunny slopes in loose black loamy soil by road cut. Fruits abundant and shaped round. Wild. Seed.
- PI 558464 donor id: SHGRF 4048. origin: Mexico. collected: August 27, 1988. collector id: SHG 4048. locality: At edge of garden by gravel road, 1 km S of Route 15 from just E of Macho de Agua. latitude: 19 deg. 26 min.. longitude: 100 deg. 13 min.. elevation: 2730m. remarks: Fruit round. Wild. Seed.

PI 558462 to 558477-continued

- PI 558465 donor id: SHGRF 4058. origin: Mexico. collected: August 29, 1988. collector id: SHG 4058. locality: On road from Route 15 to San Pedro Jacuaro, 6 km NW of Route 15. latitude: 19 deg. 43 min.. longitude: 100 deg. 39 min.. elevation: 2270m. remarks: Growing on slope among pines and oaks. Flowers rotate-stellate and colored white. Wild. Seed.
- PI 558466 donor id: SHGRF 4066. origin: Mexico. collected: August 30, 1988. collector id: SHG 4066. locality: S slope of Cerro Punhuato, 2 km E of E end of Morelia, NE Route 15. latitude: 19 deg. 41 min.. longitude: 101 deg. 07 min.. elevation: 2080m. remarks: Growing with cactus and thorny shrubs. Wild. Seed.
- PI 558467 donor id: SHGRF 4069. origin: Mexico. collected: August 30, 1988. collector id: SHG 4069. locality: About 3 km W of W edge of Morelia, on N side of Route 15, about 0.5 km E of road diverting S to Cointzio. latitude: 19 deg. 41 min.. longitude: 101 deg. 17 min.. elevation: 2000m. remarks: Growing in field with small trees and thorny shrubs. Wild. Seed.
- PI 558468 donor id: SHGRF 4074. origin: Mexico. collected: August 30, 1988. collector id: SHG 4074. locality: On W side of Route 120 S of Morelia, just S of El Reparo. latitude: 19 deg. 34 min.. longitude: 101 deg. 19 min.. elevation: 2080m. remarks: Growing among volcanic boulders. Wild. Seed.
- PI 558469 donor id: SHGRF 4080. origin: Mexico. collected: August 31, 1988. collector id: SHG 4080. locality: Along Route 120 S of Morelia, 27.5 km (by roadside markers), S of Morelia. latitude: 19 deg. 34 min.. longitude: 101 deg. 21 min.. elevation: 2080m. Wild. Seed.
- PI 558470 donor id: SHGRF 4101. origin: Mexico. collected: September 03, 1988. collector id: SHGR 4101. locality: Along Volcan Tequila microwave tower road S of Town Tequila, 18.5 km S of rail road tracks at base of Volcan Tequila. latitude: 20 deg. 48 min.. longitude: 103 deg. 50 min.. elevation: 2700m. remarks: In oak woods. Wild. Seed.
- PI 558471 donor id: SHGRF 4150. origin: Mexico. collected: September 13, 1988. collector id: SHG 4150. locality: San Luis Huexotla, 4 km SE of Texcoco. latitude: 19 deg. 29 min.. longitude: 98 deg. 52 min.. elevation: 2250m. Wild. Seed.

PI 558462 to 558477-continued

- PI 558472 donor id: SHGRF 4151. origin: Mexico. collected: September 13, 1988. collector id: SHG 4151. locality: San Luis Huexotla, 4 km SE of Texcoco. latitude: 19 deg. 29 min.. longitude: 98 deg. 52 min.. elevation: 2250m. Wild. Seed.
- PI 558473 donor id: SHGRF 4154. origin: Mexico. collected: September 16, 1988. collector id: SHGF 4154. locality: By microwave tower, near junction of Route 125 and Route 190. latitude: 17 deg. 37 min.. longitude: 97 deg. 25 min.. elevation: 2670m. remarks: In open areas opening among oak trees. Fruits mature and lying on ground. Wild. Seed.
- PI 558474 donor id: SHGRF 4163. origin: Mexico. collected: September 17, 1988. collector id: SHGF 4163. locality: On Route 125, 98.5 km SW of Route 190 (by posted km signs), S of Santa. Maria Asuncion Tlaxiaco. latitude: 17 deg. 15 min.. longitude: 97 deg. 42 min.. elevation: 2400m. remarks: Fruits green with longitudinal purple streaks. Wild. Seed.
- PI 558475 donor id: SHGRF 4187. origin: Mexico. collected: September 20, 1988. collector id: SHGF 4187. locality: 3.0 km S of Miahuatlan de Porfirio Diaz-San Pedro Coatlan road, on rd to San Miguel Coatlan. latitude: 16 deg. 13 min.. longitude: 96 deg. 43 min.. elevation: 2110m. remarks: Oak forest, growing among rocks. Wild. Seed.
- PI 558476 donor id: SHGRF 4191. origin: Mexico. collected: September 21, 1988. collector id: SHGF 4191. locality: At km 22.5 (by posted km marker), W of main road in Zaachila on dirt road toward Santa Ines del Monte. latitude: 16 deg. 57 min.. longitude: 96 deg. 51 min.. elevation: 2600m. remarks: Pine and oak forest. Wild. Seed.
- PI 558477 donor id: SHGRF 4278. origin: Mexico. collected: October 19, 1988. collector id: SG 4278. locality: Roadside in sunny area, 4.1 km NW of Route 120 by Santa Maria Huiramangaro on road to San Francisco Pichataro. latitude: 19 deg. 31 min.. longitude: 101 deg. 47 min.. elevation: 2330m. remarks: Pine forest area, plants mostly past maturity. One round fruit found; herb. specimens at Mexico. Wild. Seed.

PI 558478 to 558481. *Solanum trifidum* Correll SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558478 to 558481-continued

- PI 558478 **donor id:** SHGRF 4283. **origin:** Mexico. **collected:** October 19, 1988. **collector id:** SG 4283. **locality:** On road from Route 120 NW to Cheran, 2.5 km SE of Serina. **latitude:** 19 deg. 37 min.. **longitude:** 101 deg. 49 min.. **elevation:** 2650m. **remarks:** In pastured area with pine trees, on steep slopes by arroyos. Wild. Seed.
- PI 558479 **donor id:** SHGRF 4085. **origin:** Mexico. **collected:** August 31, 1988. **collector id:** SHG 4085. **locality:** On road from Route 120 NW to Cheran, 2.5 km SE of Serina. **latitude:** 19 deg. 37 min.. **longitude:** 101 deg. 49 min.. **elevation:** 2650m. **remarks:** In pastured area with pine trees, on steep slopes by arroyos. Flowers stellate and white, fruit conical, green and smooth. Wild. Seed.
- PI 558480 **donor id:** SHGRF 4089b. **origin:** Mexico. **collected:** September 01, 1988. **collector id:** SHG 4089b. **locality:** Along microwave tower road off of dirt road beginning about 5 km NE of Capacuaro, 5.9 km from beginning of this microwave tower road. **latitude:** 19 deg. 35 min.. **longitude:** 102 deg. 02 min.. **elevation:** 2800m. **remarks:** Pine-oak woods, recently burnt-over area. Plants not yet in fruit. Also collected as tubers. Wild. Seed.
- PI 558481 **donor id:** SHGRF 4284. **origin:** Mexico. **collected:** October 19, 1988. **collector id:** SG 4284. **locality:** 7.2 km E of church on E side of Cherdan, on road to La Mojonica, on S side of road. **latitude:** 19 deg. 40 min.. **longitude:** 101 deg. 98 min.. **elevation:** 3050m. **remarks:** Pine oak area. No flowers or fruits, only tubers collected. Wild. Tuber.

PI 558482 to 558493. *Solanum verrucosum* Schldl. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

- PI 558482 **donor id:** SHGRF 4019. **origin:** Mexico. **collected:** August 23, 1988. **collector id:** SHG 4019. **locality:** Along roadside, near junction of road S of Route 130 and spur road that goes directly to the top of Nvo. de Toluca. **latitude:** 19 deg. 09 min.. **longitude:** 99 deg. 48 min.. **elevation:** 3465m. **remarks:** Verucose fruit. Large terminal leaflet. Wild. Seed.

- PI 558483 **donor id:** SHGRF 4100. **origin:** Mexico. **collected:** September 03, 1988. **collector id:** SHGR 4100. **locality:** Along Volcan Tequila microwave tower road, S of town of Tequila, 17.3 km S of rail road tracks at base of Volcan Tequila. **latitude:** 20 deg. 48 min.. **longitude:** 103 deg. 50 min.. **elevation:** 2600m. **remarks:** In oak woods. Flowers rotate-stellate and light blue, fruits round to oval, verrucose. Wild. Seed.
- PI 558484 **donor id:** SHGRF 4102. **origin:** Mexico. **collected:** September 03, 1988. **collector id:** SHGR 4102. **locality:** Along Volcan Tequila microwave tower road S of town of Tequila, on the top of the highermost of the two microwave tower roads on the top of Volcan Tequila, under oaks about edge of microwave tower. **latitude:** 20 deg. 48 min.. **longitude:** 103 deg. 51 min.. **elevation:** 2700m. **remarks:** Some flowers white above, some blue above, some plants fruiting only at base like *S. demissum*, but others fruiting more above like *Species Verrucosum*. Wild. Seed.
- PI 558485 **donor id:** SHGRF 4122. **origin:** Mexico. **collected:** September 07, 1988. **collector id:** SHGR 4122. **locality:** New microwave tower road to top of Nevado de Colima, 16.5 km from beginning of this road which begins about 0.5 km SE of La Mesa y el Fresnito, near waterfall. **latitude:** 19 deg. 35 min.. **longitude:** 103 deg. 34 min.. **elevation:** 2725m. **remarks:** *Abies religiosa* forest. Plants to 1 m tall, growing in disturbed soil of land slippage by road cut. Wild. Seed.
- PI 558486 **donor id:** SHGRF 4123. **origin:** Mexico. **collected:** September 07, 1988. **collector id:** SHGR 4123. **locality:** New microwave tower road to top of Nevado de Colima, 23 km from beginning of this road which begins about 0.5 km SE of La Mesa y el Fresnito. **latitude:** 19 deg. 34 min.. **longitude:** 103 deg. 35 min.. **elevation:** 3020m. **remarks:** *Abies* forest, black loamy soil, in disturbed soil by road. Plants to 0.3 m tall, fruit round-ovoid, green, with prominent white bumps. Wild.
- PI 558487 **donor id:** SHGRF 4125. **origin:** Mexico. **collected:** September 07, 1988. **collector id:** SHGR 4125. **locality:** New microwave tower road to top of Nevado de Colima, 24 km from beginning of this road which begins about 0.5 km SE of La Mesa y el Fresnito. **latitude:** 19 deg. 34 min.. **longitude:** 103 deg. 35 min.. **elevation:** 3475m. **remarks:** Flowers blue. Wild. Seed.

PI 558482 to 558493-continued

- PI 558488 donor id: SHGRF 4127. origin: Mexico. collected: September 07, 1988. collector id: SHGR 4127. locality: New microwave tower road to top of Nevado de Colima which begins about 0.5 km SE of La Mesa y el Fresno; 1.5 km W of Estacion de Vigilancia de Sedue. latitude: 19 deg. 34 min.. longitude: 31 deg. 35 min.. elevation: 3410m. Wild. Seed.
- PI 558489 donor id: SHGRF 4128. origin: Mexico. collected: September 08, 1988. collector id: SHGR 4128. locality: On microwave tower road 1.7 km S of Alista-La Mesa y el Fresno road, beginning just E of Sayulapa. latitude: 19 deg. 37 min.. longitude: 103 deg. 37 min.. elevation: 2400m. remarks: Flowers blue. Collected as brachycarpum. Wild. Tuber.
- PI 558490 donor id: SHGRF 4130. origin: Mexico. collected: September 08, 1988. collector id: SHGR 4130. locality: On microwave tower road, 8.8 km S of Alista-La Mesa y el Fresno road, road begins just E of Sayulapa, next to microwave. latitude: 19 deg. 36 min.. longitude: 103 deg. 35 min.. elevation: 2920m. remarks: In open grassy field in rocky soil. Wild. Tuber.
- PI 558491 donor id: SHGRF 4171. origin: Mexico. collected: September 18, 1988. collector id: SHGF 4171. locality: Along W side of Route 175, S of Miahuatlan de Porfirio Diaz, 5 km N of San Miguel Suchixtepec, at km 149 sign. latitude: 96 deg. 07 min.. longitude: 96 deg. 29 min.. elevation: 2620m. remarks: Red clay soil. Wild. Tuber.
- PI 558492 donor id: SHGRF 4275. origin: Mexico. collected: October 18, 1988. collector id: SG 4275. locality: Near top of Cerro Burro road of right-hand fork of road at radio station, about 100 m downhill of tower on road. latitude: 19 deg. 25 min.. longitude: 102 deg. 32 min.. elevation: 3240m. remarks: Pine oak fir forest, in rich organic soil. Wild. Seed.
- PI 558493 donor id: SHGRF 4276. origin: Mexico. collected: October 18, 1988. collector id: SG 4276. locality: At Canal 8 station TV-Tower near top of Cerro Burro, on left hand fork of road near top of Cerro Burro. latitude: 19 deg. 25 min.. longitude: 102 deg. 32 min.. elevation: 3240m. remarks: Pine oak fir forest. Wild. Seed.

PI 558494 to 558496. *Solanum x edinense* Berthault SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

PI 558494 to 558496-continued

PI 558494 **donor id:** SHGRF 4007. **origin:** Mexico. **collected:** August 21, 1988. **collector id:** SHG 4007. **locality:** Along roadside, E of Tenango de Arista, about 2 km along road to Santa Maria Jalapa. **latitude:** 19 deg. 07 min.. **longitude:** 99 deg. 35 min.. **elevation:** 2540m. **remarks:** Next to cultivated potato field; common on roadside. Flowers shaped rotate and colored dark pink; fruits absent; plant 0.5 m tall. Wild.

PI 558495 **donor id:** SHGRF 4044. **origin:** Mexico. **collected:** August 27, 1988. **collector id:** SHG 4044. **locality:** At top of microwave tower road, N of Route 15, just E of Michoacan border, along roadside and edge of cornfields. **latitude:** 19 deg. 29 min.. **longitude:** 100 deg. 12 min.. **elevation:** 3000m. **remarks:** No fruit present. Wild.

PI 558496 **donor id:** SHGRF 4046a. **origin:** Mexico. **collected:** August 27, 1988. **collector id:** SHG 4046a. **locality:** At Rancho La Piedra, at top of microwave tower road, N of Route 15, just E of Mexico-Michoacan border; along roadside and edge of cornfields. **latitude:** 19 deg. 29 min.. **longitude:** 100 deg. 12 min.. **elevation:** 3000m. **remarks:** Fruits absent. Wild. Tuber.

PI 558497. *Solanum x michoacanum* (Bitter) Rydb. SOLANACEAE Potato

Donated by: Inter-Regional Potato Intro. Sta., USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.
Received October 20, 1989.

donor id: SHGRF 4077. **origin:** Mexico. **collected:** August 31, 1988. **collector id:** SHG 4077. **locality:** At km 21 marker along Route 120 S of Morelia, on W side of Route 120. **latitude:** 19 deg. 35 min.. **longitude:** 101 deg. 18 min.. **elevation:** 2080m. **remarks:** In rocky soil among cacti and shrubs. Fruits common, but seeds few in these fruits, flowers stellate and white; plants 1 m tall. Also collected as tubers. Wild. Seed.

PI 558498. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Hallauer, A.R., Iowa Agr. Exp. Sta., Iowa State University, Ames, Iowa, United States; and Agricultural Research Service -- USDA. Received November 27, 1991.

PI 558498-continued

origin: United States. **cultivar:** BS27. **pedigree:** Six cycles of mass selection from Antigua composite. **other id:** Antigua. **remarks:** Developed by mass selection for adaptation to temperate areas from a composite of Antigua Grupo 1 and of Antigua Grupo 2 provided by International Maize and Wheat Improvement Center (CIMMYT). Plant vigorous. Height intermediate. Ears with flinty kernels, light yellow to light orange. Maturity of central U.S. Corn Belt (AES800 maturity classification). Includes germplasm that. Spring Annual. Breeding Material. Seed.

PI 558499. *Amaranthus hypochondriacus* L. AMARANTHACEAE Amaranth

Donated by: Baltensperger, D.D., Nebraska Agr. Exp. Sta., University of Nebraska, Scottsbluff, Nebraska, United States; and Rodale Research Center. **remarks:** Plainsman Grain Amaranth. Received November 27, 1991.

origin: United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Scottsbluff, Nebraska 69361. **cultivar:** PLAINSMAN. **pedigree:** A. hypochondriacus PI 477917 / A. hybridus PI 540446. Single plant selections F2 - F5 followed by mass selection for uniformity. **other id:** K-343. **other id:** CV-150. **group:** CSR-OTHER GRASSES. **remarks:** Selected for early maturity, lighter seed color, and shorter plant height compared to PI 477917. During the juvenile stage, has red pigmentation in center of leaves that fades as plant approaches its reproductive phase. Develops a red upright flower. Produces light tan seed. Spring Annual. Cultivar. Seed.

PI 558500 to 558501. *Oryza sativa* L. POACEAE Rice

Donated by: Oard, J.H., Agricultural Research Service -- USDA, University of California, Davis, California, United States; and California Agr. Exp. Sta.. **remarks:** ST25H and ST25M Rice Germplasms. Received November 27, 1991.

PI 558500 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, University of California, Davis, California 95616. **cultivar:** ST25H. **pedigree:** From EMS treated M-201. **other id:** GP-69. **group:** CSR-RICE. **remarks:** Male sterile. Lemma, palea, and leaf blades glabrous with some hairs on lemma keel and leaf blade margins. Sparsely awned. No anthocyanin pigmentation. Panicles completely exerted from leaf sheaths at maturity with average length of 18.3cm. Florets per panicle 172 with varying seed fertility for bagged (0-5%) and unbagged (0-70%). Hulled rice kernels light brown pericarp with white, non-glutinous,. Breeding Material. Seed.

PI 558501 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, University of California, Davis, California 95616. **cultivar:** ST25M. **pedigree:** From EMS treated M-201. **other id:** GP-70. **group:** CSR-RICE. **remarks:** Male sterile. Lemma, palea, and leaf blades glabrous with some hairs on lemma keel and leaf blade margins. Sparsely awned. No anthocyanin pigmentation. Panicles completely exerted from leaf sheaths at maturity with average length of 18.3cm. Florets per panicle 172 with varying seed fertility for bagged (0-5%) and unbagged (0-70%). Hulled rice kernels light brown pericarp with white, non-glutinous,. Breeding Material. Seed.

PI 558502. *Trifolium incarnatum* L. FABACEAE Crimson clover

Donated by: van Santen, E., Alabama Agr. Exp. Sta., Auburn University, Auburn, Alabama, United States. **remarks:** Au Robin Crimson Clover. Received November 27, 1991.

origin: United States. **origin institute:** Alabama Agr. Exp. Sta., Auburn University, Auburn, Alabama 36849-5412. **cultivar:** AU ROBIN. **pedigree:** Cycle 1 - 37 early flowering plants selected from Dixie OP seed planted to maternal rows. Cycle 2 - Up to 5 early flowering plants selected within each maternal row; OP seed constituted a line. AU Robin was best line. **other id:** CV-6. **group:** CSR-CLOVER, CRIMSON. **remarks:** Developed in 2 cycles of modified mass selection for early flowering from Dixie. Blooms 8-13 days before Dixie. Early spring forage yield higher than Dixie. 100 seed weight is 0.384 +/- 0.011g. No selection pressure was applied for seed yield, insect or disease resistance. Winter Annual. Cultivar. Seed.

PI 558503. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Wilkinson, C.A., Virginia Agr. Exp. Sta., VPI & SU, Blackstone, Virginia, United States. **remarks:** VA 403 Tobacco. Received December 05, 1991.

origin: United States. **origin institute:** Virginia Agr. Exp. Sta., Blackstone, Virginia 23824. **cultivar:** VA 403. **pedigree:** VA 407/KY 170 F4/2/Coker 86/3/VA 409/4/Little Sweet Orinoco. **other id:** CV-105. **group:** CSR-TOBACCO. **remarks:** Plants 64cm tall. Produces 13 harvestable leaves when topped. Flowers 53 days after transplanting. Average yield 2257kg/ha with 5.37% nicotine. Approx. 7 ground suckers per 18 plant plot. Resistance low to black shank (*Phytophthora parasitica*) and black root rot (*Thielaviopsis basicola*). Spring Annual. Cultivar. Seed.

PI 558504. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Wilkinson, C.A., Virginia Agr. Exp. Sta., VPI & SU, Blackstone, Virginia, United States. **remarks:** VA 405 Tobacco. Received December 05, 1991.

origin: United States. **origin institute:** Virginia Agr. Exp. Sta., Blackstone, Virginia 23824. **cultivar:** VA 405. **pedigree:** VA 407/VA 770 F4/2/Coker 86/3/VA 407. **other id:** CV-106. **group:** CSR-TOBACCO. **remarks:** Plants 61cm tall. Produces 14 harvestable leaves when topped. Flowers 54 days after transplanting. Average yield 2292kg/ha with 5.75% nicotine. Approx. 2 ground suckers per 18 plant plot. Resistance low to black shank (*Phytophthora parasitica*) and black root rot (*Thielaviopsis basicola*). Resistant to tobacco mosaic virus. Spring Annual. Cultivar. Seed.

PI 558505 to 558507. *Beta vulgaris* L. CHENOPODIACEAE Sugar beet

Donated by: Hecker, R.J., Agricultural Research Service -- USDA, Fort Collins, Colorado, United States; and Sugar Beet Development Foundation; and Colorado State Univ. Exp. Sta. Received December 05, 1991.

PI 558505 to 558507-continued

PI 558505 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Colorado State University, Fort Collins, Colorado 80523. **cultivar:** FC 506. **pedigree:** FC 504/FC 502. **other id:** 831028HO. **other id:** GP-46. **source:** Crop Sci. 19(1):131 1979. **group:** CSR-SUGARBEET. **remarks:** Monogerm, pollen fertile maintainer line of FC 506 CMS. Resistance high to cercospora leaf spot (about equal to that in US 201), good type 0, and green hypocotyl. Diploid and flowers after short photothermal induction. Breeding Material. Seed.

PI 558506 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Colorado State University, Fort Collins, Colorado 80523. **cultivar:** FC 604. **pedigree:** Developed from 632028sl. **other id:** 841083HO. **other id:** GP-48. **source:** Crop Sci. 19(1):131 1979. **group:** CSR-SUGARBEET. **remarks:** Monogerm, pollen fertile maintainer line (type 0) of FC 604 CMS. Resistance moderate to cercospora leaf spot and curly top. Combining ability good for sucrose content. Appearance uniform. Relatively homogenous. Diploid and flowers after short photothermal induction. Breeding Material. Seed.

PI 558507 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Colorado State University, Fort Collins, Colorado 80523. **cultivar:** FC 604 CMS. **pedigree:** FC 604 crossed with a CMS line resistant to curly top and backcrossing the progeny four times to FC 604. **other id:** 841083HO1. **other id:** GP-49. **source:** Crop Sci. 19(1):131 1979. **group:** CSR-SUGARBEET. **remarks:** Cytoplasmic male-sterile line. Resistance to cercospora leaf spot and curly top. Diploid and flowers after short photothermal induction. Breeding Material. Seed.

PI 558508. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Specht, J.E., Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska, United States. **remarks:** Soybean Germplasm SGI E6. Received December 06, 1991.

PI 558508-continued

origin: United States. **origin institute:** Nebraska Agr. Exp. Sta., 309 KH, Lincoln, Nebraska 68583-0915. **cultivar:** SGL6. **pedigree:** (SGL-ms2ms2) X (30-50 elite lines)6. Each year from 1985 - 1990, a group of elite lines and cultivars were mated to F2 ms2ms2 plants of the previous year's intermating. **other id:** GP-137. **group:** CSR-SOYBEAN. **remarks:** Population segregating for ms2 form of genetic male-sterility. Developed by quasi-backcross procedure that introgressed six annual sets of maturity group 00 to V elite germplasm in existing population SGL. The six sets were the best yielding lines (annually for six seasons) across the northcentral U.S. Exceptional germplasm for any northcentral U.S. breeding program. Breeding Material. Seed.

PI 558509. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Specht, J.E., Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska, United States. Received December 06, 1991.

origin: United States. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, 309 KH, Lincoln, Nebraska 68583. **cultivar:** SGL. **pedigree:** (39 female ancestral and other lines) X (4 male lines ms2ms2). Intermated in 1983, 1984, and 1985 by advancing seed only from male-sterile plants. **other id:** GP-53. **source:** Crop Sci. 25(4):717-718 1985. **group:** CSR-SOYBEAN. **remarks:** Soybean population segregating for ms2 form of genetic male-sterility. Developed by crossing 39 ancestral germplasm (and a few other lines) to four lines heterozygous for ms2. In the F2 bulk generation of 156 crosses, only male-sterile plants bearing outcrossed seed were harvested and advanced. Two more random matings were conducted, the last in 1985. Contains considerable amount of genetic diversity. Useful. Breeding Material. Seed.

PI 558510. Triticum aestivum L. POACEAE Common wheat

Donated by: Peterson Jr., C.J., Washington Agr. Exp. Sta., Pullman, Washington, United States. Received December 06, 1991.

PI 558510-continued

origin: United States. **origin institute:** Washington Agr. Exp. Sta., Pullman, Washington 99164-6420. **cultivar:** ROD. **pedigree:** Luke/Daws/ Hill181, F4. **other id:** WA007662. **remarks:** White chaffed semidwarf soft white winter variety. Yield high. Grain production averages 80 bushels/acre. Bushel weight averages 59.0. Resistant to local races of stripe rust and common bunt. Susceptible to leaf rust, stem rust, snow mold, strawbreaker foot rot, Cephalosporium stripe, and dwarf bunt. Milling and baking quality satisfactory. Winter Annual. Cultivar. Seed.

PI 558511. *Oryza sativa* L. POACEAE

Donated by: McKenzie, K.S., California Co-operative Rice, Res. Fnd., Inc., P.O. Box 306, Biggs, California, United States. Received December 02, 1991.

origin: Japan. **cultivar:** AKITAKOMACHI. **remarks:** Maturity very early. Pubescent, short stature. Cooking and milling characteristics good. Susceptible to lodging and yields well below adapted cultivars, in California. Cultivar. Seed.

PI 558512. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Sisson, V.A., Agricultural Research Service -- USDA, Crops Research Lab., Oxford, North Carolina, United States; and North Carolina Agr. Res. Ser.. **remarks:** NC 729 Tobacco. Received December 13, 1991.

origin: United States. **origin institute:** Agricultural Research Service -- USDA, Crops Research Lab., P.O. Box 1168, Oxford, North Carolina 27565. **cultivar:** NC 729. **pedigree:** K 326/K 399. **other id:** CV-102. **group:** CSR-TOBACCO. **remarks:** Flue-cured variety. Flowers approx. 65 days after transplanting. Height normally topped at 90cm. Produces an avg. of 19 harvestable leaves. Leaves medium width and length, high quality. Yield avg. 3348kg ha⁻¹ in 1990 Regional Farm Test. Cured leaf predominantly orange in color, medium-thin bodied, and smooth textured. Resistance high to bacterial wilt (*Pseudomonas solanacearum*). Spring Annual. Cultivar. Seed.

PI 558513 to 558515. *Beta vulgaris* L. CHENOPODIACEAE Sugar beet

Donated by: Hecker, R.J., Agricultural Research Service -- USDA, Crops Research Lab., Fort Collins, Colorado, United States; and Cons. Sup. de Invest. Cient., Spain. **remarks:** Sugarbeet Parental Lines FC401, FC402, and FC403. Received December 13, 1991.

PI 558513 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Crops Research Lab., Colorado State University, United States, Colorado 80526. **cultivar:** FC401. **other id:** 911041HO. **other id:** PL-30. **group:** CSR-SUGARBEET. **remarks:** Diploid self-fertile monogerm O-type (maintainer) of its CMS equivalent FC401CMS. Originated from a cross of ARS O-type sources from disease resistance breeding programs at Fort Collins, CO, and Salinas, CA, followed by selection for cercospora leaf spot resistance and general combining ability. 33% green hypocotyl. Resistance good to leaf spot but little curly top resistance. FC401CMS combines well. Biennial. Breeding Material. Seed.

PI 558514 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Crops Research Lab., Colorado State University, United States, Colorado 80526. **cultivar:** FC402. **pedigree:** FC603(rr)/66211sl (R). **other id:** 911042HO. **other id:** PL-31. **group:** CSR-SUGARBEET. **remarks:** Diploid self-fertile monogerm O-type (maintainer) of its CMS equivalent FC402CMS. FC402CMS resulted from hybridization FC603CMS/66211sl, followed by two generations of random pollination by FC402. Resistance good to cercospora leaf spot. 52% green hypocotyl. FC402CMS combines well with AD-1, a multigerm tetraploid pollinator, to produce a triploid hybrid that has high recoverable. Biennial. Breeding Material. Seed.

PI 558515 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Crops Research Lab., Colorado State University, United States, Colorado 80526. **cultivar:** FC403. **pedigree:** 66211sl/C562. **other id:** 911043HO. **other id:** PL-32. **group:** CSR-SUGARBEET. **remarks:** Diploid self-fertile monogerm O-type (maintainer) of its CMS equivalent FC403CMS. Developed from combination of the Fort Collins O-type cercospora resistant line (66211sl) and a Salinas, CA, O-type curly top resistant line (C562), then selected for green hypocotyl. The CMS was from 66211slCMS X C562. Resistance mild to curly top. Susceptible to leaf spot. 100% green hypocotyl. When. Biennial. Breeding Material. Seed.

PI 558516 to 558519. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Missouri Agr. Exp. Sta., Columbia, Missouri, United States. Received 1991.

- PI 558516 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 7. **pedigree:** Midland/T8. **other id:** PL-23. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Yellow endosperm with white cob. Tendency for premature germination. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558517 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 10. **pedigree:** Sister line selection of K201C. **other id:** PL-26. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm deep yellow. Cob red. Large vigorous plant with large kernels. Greater resistance to leaf diseases than inbred line K201C. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558518 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 15W. **pedigree:** Developed from the open-pollinated variety Pipe Corn. **other id:** PL-31. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm white. Cob white. Developed for use in hybrids for the production of cobs suitable for manufacturing pipes. Vigorous plants with medium large ears and low shelling percent. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558519 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MOECB2(S1)C5. **pedigree:** PR-Mo2/Mo-SQB. **other id:** GP-127. **source:** Crop Sci. 24(1):213 1984. **group:** CSR-MAIZE. **remarks:** Composite population improved by recurrent selection for plant resistant to European corn borer. Endosperm yellow. Annual. Breeding Material. Seed.

PI 558520 to 558534. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Missouri Agr. Exp. Sta., Columbia, Missouri, United States. Received 1964.

[558520 to 558534-continued

- PI 558520 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 1W. **pedigree:** Mo22/2*WF9. **other id:** PL-18. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm white. Cob white. Similar to WF9 in plant type and maturity. Good combining ability and fast drying. Somewhat susceptible to leaf smut. Maturity AES800. Annual. Breeding Material. Seed.
- PI 558521 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 2RF. **pedigree:** B2/3*33-16. **other id:** PL-19. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm white. Cob white. Plant type similar to 33-16 but lacks cytoplasmic sterility problems associated with 33-16. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558522 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 3. **pedigree:** 38-11/R136. **other id:** PL-20. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm yellow. Cob red. Similar in plant type to 38-11, but later maturity. Good combining ability and some drought resistance. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558523 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 5. **pedigree:** K55/N6//2*K55. **other id:** PL-21. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm light yellow. Cob white. Short statured plant with dark green leaves. Moderate susceptibility to stalk rot. Good combining ability. Considerable drought resistance. Less fibrous tap-like root system than most lines. Maturity AES800. Annual. Breeding Material. Seed.
- PI 558524 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 6. **pedigree:** Midland/T8. **other id:** PL-22. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm yellow. Primarily white cob with some red. Good resistant to corn earworm and leaf blight (*Helminthosporium turcicum*). Excellent stalk quality. Some susceptibility to leaf smut. More resistant to root lodging than inbred T8. Maturity AES900. Annual. Breeding Material. Seed.

- PI 558525 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 8W. **pedigree:** Developed from the open-pollinated variety Pipe Corn. **other id:** PL-24. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm white. Cob white. Developed for use in hybrids to produce cobs suitable for pipes. Plants large and vigorous with large ears and cobs. Very low shelling percent. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558526 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 9W. **pedigree:** Developed from the open-pollinated variety Pipe Corn. **other id:** PL-25. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm white. Cob white. Characteristics similar to MO8W. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558527 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 11. **pedigree:** Mo22/2*WF9. **other id:** PL-27. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm yellow. Cob red. Similar to WF9 in plant and ear type, but matures slightly later with more blight resistance. Leaves dark green. Good stalk quality. Maturity AES800. Annual. Breeding Material. Seed.
- PI 558528 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 12. **pedigree:** WF9/2*Mo22. **other id:** PL-28. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm pale yellow. Cob red. Leaves very dark green. Above average resistance to blight (*Helminthosporium turcicum*). Some tolerance to western corn rootworm and maize dwarf mosaic virus. Good combining ability. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558529 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 13. **pedigree:** Mississippi line Hydl 100.3/2*T8. **other id:** PL-29. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm yellow. Cob white. Similar in appearance to Inbred T8. Excellent pollen producer. Good resistance to corn earworm. Contributes high yield, good root and stalk lodging resistance to its hybrids. Maturity AES900. Annual. Breeding Material. Seed.

PI 558520 to 558534-continued

- PI 558530 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 14W. **pedigree:** Mo22/WF9. **other id:** PL-30. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm white. Cob white. Plant type similar to Mo22, but matures earlier. Stalk and root quality excellent. Above average tolerance to leaf blight (*Helminthosporium turcicum*) and maize dwarf mosaic virus. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558531 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 16W. **pedigree:** Developed from the open-pollinated variety Pipe Corn. **other id:** PL-32. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm white. Cob white. Developed for use in hybrids for the production of cobs for pipes. Characteristics similar to Mo15W except for a slightly larger ear and cob. Maturity AES900. Annual. Breeding Material. Seed.
- PI 558532 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 17. **pedigree:** CI 187-2/C103. **other id:** PL-33. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm yellow. Cob red. Relative maturity similar to C103 with better kernel type than C103. Easier to maintain in Missouri than C103. Resistance to leaf blight (*Helminthosporium turcicum*) and stalk quality similar to C103. Pollinates itself readily under semi-drought conditions. Maturity AES800. Annual. Breeding Material. Seed.
- PI 558533 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 21R. **pedigree:** H22/5*Mo21A. **other id:** PL-36. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm white. Cob white. Excellent resistance to *Helminthosporium turcicum*. Kernels chalky white and rather flinty. Maturity AES1000. Annual. Breeding Material. Seed.

PI 558520 to 558534-continued

PI 558534 **origin:** United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri. **cultivar:** MO 22. **pedigree:** Developed from the open-pollinated variety Laguna. **other id:** PL-37. **source:** Crop Sci. 13(6):779 1973. **group:** CSR-MAIZE. **remarks:** Endosperm chalky white. Cob white. Resistant to blight (*Helminthosporium turcicum*). Excellent stalk and root quality. Very tolerant to heat and drought. High tolerance to maize dwarf mosaic virus. Good combining ability. Maturity AES1100. Annual. Breeding Material. Seed.

PI 558535 to 558536. *Humulus japonicus* Siebold & Zucc. CANNABACEAE
Hops

Donated by: Westwood, M.N., USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received June 30, 1981.

PI 558535 **origin:** Japan. **pedigree:** Collected from the wild in Japan. **locality:** On Campus, Fuchu City. Annual. Wild. Seed.

PI 558536 **origin:** Korea, Republic of. **pedigree:** Collected from the wild in Korea. **locality:** Cheongju Province, Woalark Mountains. Annual. Wild. Seed.

PI 558537 to 558548. *Humulus japonicus* Siebold & Zucc. CANNABACEAE
Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon, United States. Received July 27, 1987.

PI 558537 **origin:** United States. **cultivar:** Tug Fork No. 1. **pedigree:** Collected from the wild in Kentucky. **locality:** Along the Tug Fork River in eastern Kentucky. **latitude:** 37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All plants bore abundant flowers Aug-Sept. Annual. Wild. Plant.

PI 558538 **origin:** United States. **cultivar:** Tug Fork No. 2. **pedigree:** Collected from the wild in Kentucky. **locality:** Along the Tug Fork River in eastern Kentucky. **latitude:** 37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All plants bore abundant flowers Aug-Sept. Annual. Wild. Plant.

PI 558537 to 558548-continued

- PI 558539 **origin:** United States. **cultivar:** Tug Fork No. 3.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.
- PI 558540 **origin:** United States. **cultivar:** Tug Fork No. 4.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.
- PI 558541 **origin:** United States. **cultivar:** Tug Fork No. 5.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.
- PI 558542 **origin:** United States. **cultivar:** Tug Fork No. 6.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.
- PI 558543 **origin:** United States. **cultivar:** Tug Fork No. 7.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.
- PI 558544 **origin:** United States. **cultivar:** Tug Fork No. 8.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.
- PI 558545 **origin:** United States. **cultivar:** Tug Fork No. 9.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.

PI 558537 to 558548-continued

- PI 558546 **origin:** United States. **cultivar:** Tug Fork No. 10.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.
- PI 558547 **origin:** United States. **cultivar:** Tug Fork No. 11.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.
- PI 558548 **origin:** United States. **cultivar:** Tug Fork No. 12.
pedigree: Collected from the wild in Kentucky. **locality:**
Along the Tug Fork River in eastern Kentucky. **latitude:**
37 deg. 30 min. N. **longitude:** 84 deg. W. **remarks:** All
plants bore abundant flowers Aug-Sept. Annual. Wild.
Plant.

PI 558549 to 558701. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Haunold, A., USDA/ARS Hops Research Project, East Farm,
Corvallis, Oregon, United States. Received March 25, 1982.

- PI 558549 **origin:** United States. **origin institute:** USDA-ARS Hops
Research Project, East Farm, Corvallis, Oregon 97331.
cultivar: USDA 19172M. **pedigree:** Cat's Tail x
Fuggle-Fuggle seedling. **other id:** USDA 19172M. **remarks:**
Valuable for breeding early, good-yielding hops.
Perennial. Breeding Material. Plant.
- PI 558550 **origin:** United States. **origin institute:** USDA-ARS Hops
Research Project, East Farm, Corvallis, Oregon 97331.
cultivar: USDA 63013M. **pedigree:** Brewer's Gold x Utah
526-4. **other id:** USDA 63013M. **remarks:** Brother
selection to USDA 63012. Perennial. Breeding Material.
Plant.
- PI 558551 **origin:** United States. **origin institute:** USDA-ARS Hops
Research Project, East Farm, Corvallis, Oregon 97331.
cultivar: USDA 51101M. **pedigree:** Fuggle sdlg x (Landhop
sdlg x Golden Cluster-Fuggle sdlg). **other id:** USDA
51101M. **remarks:** Excellent vigor and arm length, very
good yield potential. Perennial. Breeding Material.
Plant.

PI 558549 to 558701-continued

- PI 558552 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21061M. **pedigree:** (Late Grape sd x Fuggle-Fuggle sd) x (Stries.-Late Clus. sd). **other id:** USDA 21061M. **remarks:** Late, very good spring growth & arm development, high yield. Perennial. Breeding Material. Plant.
- PI 558553 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21070M. **pedigree:** (Brewer's Gold3) x East Kent Golding-Bavarian seedling. **other id:** USDA 21070M. **remarks:** Medium late maturity, very good spring regrowth and vigor. Perennial. Breeding Material. Plant.
- PI 558554 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19061M. **pedigree:** Late Grape x Fuggle seedling. **other id:** USDA 19061M. **remarks:** Above average sidearm length, superior number of cones. Perennial. Breeding Material. Plant.
- PI 558555 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19010M. **pedigree:** Red Vine x Fuggle seedling. **other id:** USDA 19010M. **remarks:** Very good vigor, late maturity, gives superior progeny. Perennial. Breeding Material. Plant.
- PI 558556 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60026M Colorado 2-1. **pedigree:** Collected from the wild in Colorado. **collected:** 1962. **other id:** USDA 60026M. **locality:** 35 miles south of Denver, CO. **remarks:** Very good spring growth but vigor tapers off later on. Perennial. Breeding Material. Plant.
- PI 558557 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60028M Colorado 2-3. **pedigree:** Collected from the wild in Colorado. **collected:** 1962. **other id:** USDA 60028M. **locality:** 35 miles south of Denver. **remarks:** Fair spring regrowth, poor vigor. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558558 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 52047M. **pedigree:** (Streis. x Early Gr-unknown sd) x (Stries. -Late Clus. sd). **other id:** USDA 52047M. **remarks:** Intermediate/resistant under field conditions. Perennial. Breeding Material. Plant.
- PI 558559 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19005M. **pedigree:** Late Cluster seedling. **other id:** USDA 19005M. **remarks:** Very good spring growth, good vigor. Perennial. Breeding Material. Plant.
- PI 558560 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19037M. **pedigree:** Fuggle seedling x Fuggle seedling. **other id:** USDA 19037M. **remarks:** Early maturity, good spring growth, vigor and yield pot. Perennial. Breeding Material. Plant.
- PI 558561 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19085M. **pedigree:** Landhopfen seedling x Golden Cluster-Fuggle seedling. **other id:** USDA 19085M. **remarks:** Very good spring growth, excellent vigor and yield pot. Perennial. Breeding Material. Plant.
- PI 558562 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19043M. **pedigree:** Belgium Burvine x Fuggle seedling. **other id:** USDA 19043M. **remarks:** Very good spring growth, excellent vigor and yield potential. Perennial. Breeding Material. Plant.
- PI 558563 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64027M. **pedigree:** (Brewers Gold2) x (East Kent Golding-Bavarian seedling). **other id:** USDA 64027M. **remarks:** Good overall vigor and fair sidearm development, med. early. Perennial. Breeding Material. Plant.
- PI 558564 **origin:** United Kingdom. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64037M Zattler seedling. **pedigree:** German female 7K 491 x open pollinated (Cross 6234). **other id:** GP-4. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-HOP. **other id:** USDA 64037M. **remarks:** This is a brother of USDA 64035M. Highly resistant to mildew. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558565 **origin:** United Kingdom. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64036M Zattler seedling. **pedigree:** German female 7K 491 x open pollinated. **other id:** USDA 64036M. **remarks:** Brother selection to USDA 64032M. Perennial. Breeding Material. Plant.
- PI 558566 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19007M Brewer's Favorite seedling. **pedigree:** Brewer's Favorite seedling selection. **other id:** USDA 19007M. **remarks:** Good spring regrowth and yield potential. Perennial. Breeding Material. Plant.
- PI 558567 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21072M. **pedigree:** Brewer's Gold x Arizona 1-2 Wild American. **other id:** USDA 21072M. **remarks:** Medium early maturity, very good spring regrowth and vigor. Perennial. Breeding Material. Plant.
- PI 558568 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19041M. **pedigree:** Early Green x unknown seedling. **other id:** USDA 19041M. **remarks:** Very good spring growth, excellent vigor and yield potential. Perennial. Breeding Material. Plant.
- PI 558569 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 63012M. **pedigree:** Brewer's Gold x Utah 526-4. **other id:** USDA 63012M. **remarks:** Good spring growth, medium early maturity, good vigor. Perennial. Breeding Material. Plant.
- PI 558570 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60031M Colorado 4-1. **pedigree:** Selected from the wild in Colorado. **collected:** 1960. **other id:** USDA 60031M. **locality:** Buckhorn Canyon near Ft. Collins, CO. **remarks:** Poor spring regrowth and vigor, very late. Perennial. Breeding Material. Plant.
- PI 558571 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19062M. **pedigree:** East Kent Golding x Bavarian seedling. **other id:** USDA 19062M. **remarks:** This clone is the parent of USDA 63015M. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558572 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, Corvallis, Oregon 97331. **cultivar:** USDA 21130M. **pedigree:** Yakima Cluster x Zattler seedling. **other id:** USDA 21130M. **remarks:** The male parent of this clone is USDA 64037M. Perennial. Breeding Material. Plant.
- PI 558573 **origin:** Yugoslavia. **origin institute:** Institute for Hops Research, Zalec. **cultivar:** USDA 21089M Yugoslavian Selection 5/10. **pedigree:** Selected from the wild in Yugoslavia. **other id:** USDA 21089M. **remarks:** Resistant to downy mildew, medium late maturity. Perennial. Breeding Material. Plant.
- PI 558574 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19183M. **pedigree:** Fuggle x (Early Green-Early Cluster seedling). **other id:** USDA 19183M. **remarks:** Early flowering, good yield potential. Perennial. Breeding Material. Plant.
- PI 558575 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19040M. **pedigree:** Fuggle seedling x Fuggle seedling. **other id:** USDA 19040M. **remarks:** Very good spring growth, excellent vigor and yield potential. Perennial. Breeding Material. Plant.
- PI 558576 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 63017M. **pedigree:** Brewer's Gold x East Kent Golding-Bavarian seedling. **other id:** USDA 63017M. **remarks:** Brother selection to USDA 63015. Perennial. Breeding Material. Plant.
- PI 558577 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21059M. **pedigree:** (Late Grape sd x Fuggle-Fuggle sd) x (Early Gr. x unk. sd). **other id:** USDA 21059M. **remarks:** Res. to downy mildew, shows symptoms of split leaf blotch. Perennial. Breeding Material. Plant.
- PI 558578 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19006M Hybrid 3-4. **other id:** USDA 19006M. **remarks:** Very good spring regrowth, vigor. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558579 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 63011M. **pedigree:** (Late Grape-Fuggle sdlg) x (Early Green-unknown sdlg). **other id:** USDA 63011M. **remarks:** Excellent vigor, early maturity, very good spring growth. Perennial. Breeding Material. Plant.
- PI 558580 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19046M. **pedigree:** Late Cluster seedling x Fuggle seedling. **other id:** USDA 19046M. **remarks:** Has produced progeny with zero alpha in their lupulin. Perennial. Breeding Material. Plant.
- PI 558581 **origin:** United Kingdom. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64035M. **pedigree:** German female 7K 491 x open pollinated. **other id:** GP-16. **source:** Crop Sci. 25(5):889 1985. **group:** CSR-HOP. **other id:** USDA 64035M. **remarks:** Brother selection to USDA 64032M, released as valuable hop germplasm by the USDA in March 1984. Perennial. Breeding Material. Plant.
- PI 558582 **origin:** United Kingdom. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64034M Zattler seedling. **pedigree:** German female 7K 491 x open pollinated. **other id:** USDA 64034M. **remarks:** Brother selection to USDA 64032M. Perennial. Breeding Material. Plant.
- PI 558583 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21111M. **pedigree:** Bullion x Zattler seedling. **other id:** USDA 21111M. **remarks:** Intermediate/resistant under field conditions. Perennial. Breeding Material. Plant.
- PI 558584 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21060M. **pedigree:** (Late Grape sd x Fuggle-Fuggle sd) x (Early Gr. x unk. sd). **other id:** USDA 21060M. **remarks:** This clone is a brother of USDA 21059M. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558585 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 52045M. **pedigree:** (E. Kent Gold. x Early Gr-Kent Gold sd)x(Early Gr x Unk sd). **other id:** USDA 52045M. **remarks:** Excellent vigor, very late. Perennial. Breeding Material. Plant.
- PI 558586 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19170M. **pedigree:** Unknown sdlg x (E. Kent Golding x Early Green-Kent Gold sdl). **other id:** USDA 19170M. **remarks:** Poor sidearm length and poor yield potential. Perennial. Breeding Material. Plant.
- PI 558587 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19047M. **pedigree:** Elsasser x Fuggle seedling. **other id:** USDA 19047M. **remarks:** Carries genes for European quality traits. Perennial. Breeding Material. Plant.
- PI 558588 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 58111M. **pedigree:** [(BG x Belg. 31 sd x Belg. 31) x (LG x Fuggle sd)] x OP. **other id:** USDA 58111M. **remarks:** Medium late, excellent vigor and yield potential. Perennial. Breeding Material. Plant.
- PI 558589 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21117M Native Wisconsin selection. **pedigree:** Selected from the wild in Wisconsin. **collected:** 1976. **other id:** USDA 21117M. **remarks:** Probably an escaped commercial cultivar from the late 1800's. Perennial. Breeding Material. Plant.
- PI 558590 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 51114M. **pedigree:** (Landhop sd x Golden Cluster-Fuggle sd)x(Semsch x 8-2 BY). **other id:** USDA 51114M. **remarks:** Resistant to spider mites and downy mildew in the field. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558591 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60023M Colorado 1-1. **pedigree:** Selected from the wild in Colorado. **collected:** 1960. **other id:** USDA 60023M. **locality:** Five miles NE of San Luis, CO. **remarks:** Good spring regrowth and yield potential. Perennial. Breeding Material. Plant.
- PI 558592 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19036M. **pedigree:** Late Cluster x Fuggle seedling. **other id:** USDA 19036M. **remarks:** Poor vigor, medium/early maturity. Perennial. Breeding Material. Plant.
- PI 558593 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21017M. **pedigree:** Fuggle x Colorado 2-1. **other id:** USDA 21017M. **remarks:** Resistant to downy mildew, good vigor, early maturity. Perennial. Breeding Material. Plant.
- PI 558594 **origin:** United Kingdom. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64033M. **pedigree:** German female 7K 491 x open pollinated. **other id:** GP-3. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-HOP. **other id:** USDA 64033M. **remarks:** This clone is a brother of USDA 64032M. Perennial. Breeding Material. Plant.
- PI 558595 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21009M. **pedigree:** Sunshine 50 sdlg x (Utah 523-4 x Early Green-unknown sdlg). **other id:** USDA 21009M. **remarks:** Leaves remain yellow through entire growing season. Perennial. Breeding Material. Plant.
- PI 558596 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64028M. **pedigree:** (Brewers Gold2) x (East Kent Golding-Bavarian seedling). **other id:** USDA 64028M. **remarks:** This clone is a brother of USDA 64027M. Perennial. Breeding Material. Plant.
- PI 558597 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19048M. **pedigree:** Fuggle seedling x Red Vine seedling. **other id:** USDA 19048M. **remarks:** Excellent vigor and yield potential, medium/early maturity. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558598 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, Corvallis, Oregon 97331. **cultivar:** USDA 19173M. **pedigree:** Striesselpalt x Late Cluster seedling. **other id:** USDA 19173M. **remarks:** Very good spring growth, medium maturity, good vigor. Perennial. Breeding Material. Plant.
- PI 558599 **origin:** United Kingdom. **historical origin:** United States. **origin institute:** USDA-ARS Hop Research Project, Corvallis, Oregon 97331. **cultivar:** USDA 64032M Zattler seedling. **pedigree:** German female 2L 118 x open pollinated (Cross 6325). **other id:** GP-2. **source:** Crop Sci. 14(2):341 1974. **group:** CSR-HOP. **other id:** USDA 64032M. **remarks:** This clone has been selected for mildew resistance. Perennial. Breeding Material. Seed.
- PI 558600 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19060M. **pedigree:** East Kent Golding x Bavarian seedling. **other id:** USDA 19060M. **remarks:** Good spring growth, medium maturity, good vigor and yield. Perennial. Breeding Material. Plant.
- PI 558601 **origin:** United States. **cultivar:** Comet (male). **pedigree:** A mutant/sex reversal of female hop cv Comet. **other id:** USDA 21184M. **remarks:** Extremely susceptible to downy mildew, fully fertile. Perennial. Breeding Material. Plant.
- PI 558602 **origin:** Yugoslavia. **origin institute:** Institute for Hops Research, Zalec. **cultivar:** USDA 21090M Yugoslavian Selection 12/17. **pedigree:** Selected from the wild in Yugoslavia. **other id:** USDA 21090M. **remarks:** Resistant to downy mildew, very late maturity. Perennial. Breeding Material. Plant.
- PI 558603 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 52040M. **pedigree:** (Landhop sdlg x Red Vine sdlg) x (Semsch x 8-2 Brewers Yard). **other id:** USDA 52040M. **remarks:** Red stem at maturity, excellent yield potential. Perennial. Breeding Material. Plant.
- PI 558604 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60013M Arizona 1-2. **pedigree:** Selected from the wild in Arizona. **collected:** 1960. **other id:** USDA 60013M. **locality:** Big Springs, Kaibab National Forest. **elevation:** 2400m. **remarks:** Fair/poor regrowth, poor yield potential. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558605 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19039M. **pedigree:** Fuggle seedling x Red Vine seedling. **other id:** USDA 19039M. **remarks:** Fair spring growth, very good vigor and yield potential. Perennial. Breeding Material. Plant.
- PI 558606 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 51110M. **pedigree:** Bullion x Zattler seedling. **other id:** USDA 51110M. **remarks:** Resistant to downy mildew, medium/early, good yield pot. Perennial. Breeding Material. Plant.
- PI 558607 **origin:** Yugoslavia. **origin institute:** Institute for Hops Research, Zalec. **cultivar:** USDA 21087M Yugoslavian Selection 3/3. **pedigree:** Selected from the wild in Yugoslavia. **other id:** USDA 21087M. **remarks:** Resistant to downy mildew, medium early maturity. Perennial. Breeding Material. Plant.
- PI 558608 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** GP-14. **pedigree:** Brewer's Gold x USDA 19062M (Cross 006). **other id:** GP-14. **source:** Crop Sci. 23(3):600 1983. **group:** CSR-HOP. **other id:** USDA 63015M. **remarks:** Excellent qualities, valuable germplasm. Perennial. Breeding Material. Plant.
- PI 558609 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19009M. **pedigree:** Fuggle x Fuggle seedling. **other id:** USDA 19009M. **remarks:** Good spring regrowth, early maturity, good vigor. Perennial. Breeding Material. Plant.
- PI 558610 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19008M. **pedigree:** Semsch x 8-2 Brewer's Yard. **other id:** USDA 19008M. **remarks:** Good spring regrowth, very good yield potential, med-late. Perennial. Breeding Material. Plant.
- PI 558611 **origin:** Yugoslavia. **origin institute:** Institute for Hops Research, Zalec. **cultivar:** USDA 21088M Yugoslavian Selection 5/9. **pedigree:** Selected from the wild in Yugoslavia. **other id:** USDA 21088M. **remarks:** Resistant to downy mildew, medium early maturity. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558612 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19182M. **pedigree:** Bullion x (Belgian 31 sdlg-Belgian 310). **other id:** USDA 19182M. **remarks:** Late flowering, very late maturity. Perennial. Breeding Material. Plant.
- PI 558613 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 65037M. **pedigree:** Hallertauer x Fuggle-Fuggle seedling. **other id:** USDA 65037M. **remarks:** Very good vigor and sidearm development, very late maturity. Perennial. Breeding Material. Plant.
- PI 558614 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60021 New Mexico 3-1. **pedigree:** Selected from the wild in New Mexico. **collected:** 1960. **other id:** USDA 60021. **locality:** Three miles East of Eagles Nest, NM. **remarks:** Poor spring regrowth and vigor, susceptible to mildew. Perennial. Breeding Material. Plant.
- PI 558615 **origin:** Yugoslavia. **origin institute:** Institute of Agricultural Research, Novi Sad. **cultivar:** USDA 21084 Yugoslavian Selection IV/12. **pedigree:** Unknown. **other id:** USDA 21084. **remarks:** Late maturity, resistant to downy mildew, European aroma. Perennial. Breeding Material. Plant.
- PI 558616 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 58016 Utah 526-5. **pedigree:** Selection from the wild from Utah. **collected:** 1958. **other id:** USDA 58016. **locality:** Logan Canyon, Utah. **remarks:** Free of all known hop viruses, excellent spring regrowth. Perennial. Breeding Material. Plant.
- PI 558617 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21148. **pedigree:** Fuggle x Striesselspalt-Late Cluster seedling. **other id:** USDA 21148. **remarks:** Good spring regrowth, vigor and yield potential. Perennial. Breeding Material. Plant.
- PI 558618 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19151. **pedigree:** Fuggle x Red Vine-Unknown seedling, selection 135-I. **other id:** USDA 19151. **remarks:** Excellent spring regrowth, resistant to downy mildew. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558619 **origin:** Yugoslavia. **origin institute:** Institute of Agricultural Research, Novi Sad. **cultivar:** USDA 21085 Yugoslavian Selection VII/23. **pedigree:** Unknown. **other id:** USDA 21085. **remarks:** Poor spring growth, good yield potential, medium late mat. Perennial. Breeding Material. Plant.
- PI 558620 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19105. **pedigree:** Late Grape seedling x Fuggle-Fuggle seedling. **other id:** USDA 19105. **remarks:** High yield potential, late maturity, excellent picking chars. Perennial. Breeding Material. Plant.
- PI 558621 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21057 Late Cluster seedling. **pedigree:** Late Cluster x ?. **other id:** USDA 21057. **remarks:** Good yield potential, medium/late maturity, large cones. Perennial. Breeding Material. Plant.
- PI 558622 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 50040. **pedigree:** Spalter x East Kent Golding - Bavarian seedling. **other id:** USDA 50040. **remarks:** Good yield potential and spring growth, European aroma pot. Perennial. Breeding Material. Plant.
- PI 558623 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 54002. **pedigree:** (Brewers Gold x Fuggle-Fuggle)x(Fuggle sdlg x Redvine sdlg). **other id:** USDA 54002. **remarks:** Red stem, very good spring growth and yield potential. Perennial. Breeding Material. Plant.
- PI 558624 **origin:** United Kingdom. **origin institute:** Wye College, Wye, England. **cultivar:** USDA 64010. **pedigree:** German seedling x open pollinated seedling selection. **other id:** USDA 64010. **remarks:** This clone has been reselected for mildew resistance. Perennial. Breeding Material. Plant.
- PI 558625 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60037 Wyoming 2-3. **pedigree:** Selected from the wild in Wyoming. **collected:** 1960. **other id:** USDA 60037. **locality:** Near the Jackson Hole Lodge, WY. **remarks:** This clone may be an escape from an old mining camp. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558626 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 63032. **pedigree:** Backa x Utah 526-4. **other id:** USDA 63032. **remarks:** Good spring growth, good yield potential, med. late. Perennial. Breeding Material. Plant.
- PI 558627 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19185. **pedigree:** Late Grape x (Fuggle x Red Vine) seedling, Selection 131-S. **other id:** USDA 19185. **remarks:** High yield potential and very early maturity. Perennial. Breeding Material. Plant.
- PI 558628 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60020 New Mexico 2-4. **pedigree:** Selected from the wild in New Mexico. **collected:** 1960. **other id:** USDA 60020. **locality:** Near Taos. **remarks:** Poor spring regrowth, vigor and yield potential. Perennial. Breeding Material. Plant.
- PI 558629 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64026. **pedigree:** Brewers Gold x (Bullion x Belgian 31 sdlg-Belgian 31). **other id:** USDA 64026. **remarks:** Good spring regrowth, good vigor, late maturity. Perennial. Breeding Material. Plant.
- PI 558630 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21147. **pedigree:** Fuggle x Striesselspalt-Late Cluster seedling. **other id:** USDA 21147. **remarks:** Very good spring regrowth, early maturity, good yield pot. Perennial. Breeding Material. Plant.
- PI 558631 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, Corvallis, Oregon 97331. **cultivar:** USDA 56012. **pedigree:** USDA 19152 x USDA 19058M, Cross 55224. **other id:** USDA 56012. **remarks:** High yield potential, very good vigor. Perennial. Breeding Material. Plant.
- PI 558632 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Wye College, Wye, England. **cultivar:** Wye Target. **pedigree:** (North. Brewer x unspecified) x Eastwell Golding-USDA 64103M. **other id:** USDA 21112. **restricted:** REQ. **remarks:** Major English hop variety, high alpha acids content. Perennial. Cultivar. Plant.

PI 558549 to 558701-continued

- PI 558633 **origin:** United Kingdom. **origin institute:** Wye College, Wye, England. **cultivar:** USDA 64009. **pedigree:** German seedling x open pollinated. **other id:** USDA 64009. **remarks:** This clone has been reselected for mildew resistance. Perennial. Breeding Material. Plant.
- PI 558634 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64003. **pedigree:** (Late Grape x Fuggle-Fuggle) x (Striesselspalt-Late Cluster). **other id:** USDA 64003. **remarks:** This is an important clone for breeding for high yield pot. Perennial. Breeding Material. Plant.
- PI 558635 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60038 Wyoming 3-1. **pedigree:** Selected from the wild in Wyoming. **collected:** 1932. **other id:** USDA 60038. **locality:** Sherman Mountains. **remarks:** Good spring growth, early maturity, poor vigor. Perennial. Breeding Material. Plant.
- PI 558636 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60016 New Mexico 1-3. **pedigree:** Selected from the wild in New Mexico. **collected:** 1960. **other id:** USDA 60016. **locality:** Blue Water, NM. **remarks:** Poor spring regrowth, susceptible to mildew. Perennial. Breeding Material. Plant.
- PI 558637 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21150. **pedigree:** Brewer's Gold x Fuggle-Colorado 2-3. **other id:** USDA 21150. **remarks:** Very good spring regrowth, early flowering and maturity. Perennial. Breeding Material. Plant.
- PI 558638 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 65009. **pedigree:** USDA 19001 x USDA 19058M (Cross 6407). **other id:** GP-15. **source:** Crop Sci. 24(5):1005 1984. **group:** CSR-HOP. **other id:** USDA 65009. **remarks:** Excellent vigor, excellent cone set and type, no shattering. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558639 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64007. **pedigree:** USDA 19105 x USDA 19058M (Cross 63021). **other id:** USDA 64007. **remarks:** Excellent yield potential, moderately resistant to mildew. Perennial. Breeding Material. Plant.
- PI 558640 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60033 Colorado 6-1. **pedigree:** Selected from the wild in Colorado. **collected:** 1960. **other id:** USDA 60033. **locality:** Buckhorn Canyon near Ft. Collins, CO. **remarks:** Poor vigor, medium-early maturity. Perennial. Breeding Material. Plant.
- PI 558641 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19028. **pedigree:** Early Green x Early Cluster seedling selection. **other id:** USDA 19028. **remarks:** Very good spring growth, moderate yield potential, med. late. Perennial. Breeding Material. Plant.
- PI 558642 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21143. **pedigree:** Hallertauer x Fuggle-Fuggle seedling. **other id:** USDA 21143. **remarks:** Very good spring regrowth, early flowering and maturity. Perennial. Breeding Material. Plant.
- PI 558643 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19120 Sunshine seedling 25-S. **pedigree:** Sunshine x OP, seedling selection 25-S. **other id:** USDA 19120. **remarks:** This clone is the female parent of the cultivar Comet. Perennial. Breeding Material. Plant.
- PI 558644 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 56008. **pedigree:** USDA 19098 x USDA 19183M (Cross 55148). **other id:** USDA 56008. **remarks:** Triploid, early maturity, very high yield potential. Perennial. Breeding Material. Plant.
- PI 558645 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19137 Sunshine seedling 50-S. **pedigree:** Open-pollinated seedling of Sunshine, selection 50-S. **other id:** USDA 19137. **remarks:** Yellow leaves, sister selection to USDA 19120. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558646 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60029 Colorado 3-1. **pedigree:** Selected from the wild in Colorado. **collected:** 1960. **other id:** USDA 60029. **locality:** Near Masonville, CO. **remarks:** Very poor spring regrowth and vigor, susceptible to mildew. Perennial. Breeding Material. Plant.
- PI 558647 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21062. **pedigree:** Bullion x East Kent Golding-Bavarian seedling. **other id:** USDA 21062. **remarks:** Excellent spring regrowth, early flowering time, good yield. Perennial. Breeding Material. Plant.
- PI 558648 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 50075. **pedigree:** (East Kent Golding x Early Green-Kent Gold.) x Fuggle-Fuggle. **other id:** USDA 50075. **remarks:** Poor yield potential, resistant to mildew, medium-late mat. Perennial. Breeding Material. Plant.
- PI 558649 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 50024. **pedigree:** (Elsasser x Fuggle seedling) x USDA 19049M. **other id:** USDA 50024. **remarks:** Very high alpha acid content, excellent yield potential. Perennial. Breeding Material. Plant.
- PI 558650 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19110. **pedigree:** Unknown female x Belgian 31S-Belgian 31, selection 15-S. **other id:** USDA 19110. **remarks:** Good yield potential, late maturity. Perennial. Breeding Material. Plant.
- PI 558651 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60035 Colorado 7-2. **pedigree:** Selected from the wild in Colorado. **collected:** 1960. **other id:** USDA 60035. **locality:** Poudre Canyon near Ft. Collins, CO. **elevation:** 2200m. **remarks:** Poor vigor and yield potential. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558652 **origin:** United Kingdom. **origin institute:** Wye College, Wye, England. **cultivar:** USDA 64008. **pedigree:** German seedling x open pollinated seedling selection. **other id:** USDA 64008. **remarks:** This clone has been reselected for mildew resistance. Perennial. Breeding Material. Plant.
- PI 558653 **origin:** United States. **historical origin:** Belgium. **origin institute:** Ministry of Agriculture, Ieper, Oregon. **cultivar:** Blue Northern Brewer. **pedigree:** Mutation of Northern Brewer. **other id:** USDA 21079. **remarks:** Good spring growth, vigor, resistant to downy mildew. Perennial. Cultivar. Plant.
- PI 558654 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60025 Colorado 1-3. **pedigree:** Selected from the wild in Colorado. **collected:** 1960. **other id:** USDA 60025. **locality:** Five miles NE of San Luis, CO. **remarks:** Very poor spring regrowth and vigor, susceptible to mildew. Perennial. Breeding Material. Plant.
- PI 558655 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 64020. **pedigree:** Backa x East Kent Golding-Bavarian seedling. **other id:** USDA 64020. **remarks:** Excellent spring regrowth, medium maturity, good yield. Perennial. Breeding Material. Plant.
- PI 558656 **origin:** Yugoslavia. **origin institute:** Institute of Agricultural Research, Novi Sad. **cultivar:** USDA 21086 Yugoslavian Selection VIII/27. **pedigree:** Unknown. **other id:** USDA 21086. **remarks:** Good yield potential, resistant to downy mildew, Eur. aroma. Perennial. Breeding Material. Plant.
- PI 558657 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 52013. **pedigree:** (Brewer's Fav. x Late Grape-Fuggle) x open pollinated. **other id:** USDA 52013. **remarks:** Very good spring growth and yield potential, med-late mat. Perennial. Breeding Material. Plant.
- PI 558658 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 19027. **pedigree:** Fuggle x Fuggle seedling selection. **other id:** USDA 19027. **remarks:** Mildew resistant, very good spring growth & yield potential. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558659 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, Corvallis, Oregon 97331. **cultivar:** USDA 19200. **pedigree:** Urbann x USDA 19005M, selection 148-S. **other id:** USDA 19200. **remarks:** Excellent spring regrowth, high yield potential. Perennial. Breeding Material. Plant.
- PI 558660 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60032 Colorado 5-1. **pedigree:** Selected from the wild in Colorado. **collected:** 1960. **other id:** USDA 60032. **remarks:** Poor vigor and yield potential, early maturity. Perennial. Breeding Material. Plant.
- PI 558661 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hop Research Project, Corvallis, Oregon 97331. **cultivar:** USDA 60015 Arizona 1-4. **pedigree:** Selected from the wild in Arizona. **collected:** 1960. **other id:** USDA 60015. **locality:** Big Springs, Kaibab National Forest. **elevation:** 2500m. **remarks:** Very late maturity, susceptible to downy mildew. Perennial. Breeding Material. Plant.
- PI 558662 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 54003. **pedigree:** Late Grape sdlg-Fuggle sdlg x East Kent Golding-Bavarian sdl. **other id:** USDA 54003. **remarks:** Excellent yield and vigor potential, medium maturity. Perennial. Breeding Material. Plant.
- PI 558663 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21001 FR2. **pedigree:** Selected from the wild in Oregon, unknown genotype. **collected:** 1961. **other id:** USDA 21001. **locality:** Commercial Fuggleyard. **remarks:** Very early maturing, excellent spring growth, yield fair. Perennial. Breeding Material. Plant.
- PI 558664 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** Fuggle H. **pedigree:** Fuggle (USDA 19209) clonal selection. **other id:** CV-2. **source:** Crop Sci. 12(5):714 1972. **group:** CSR-HOP. **other id:** USDA 48209. **remarks:** Virus-free, early maturity, resistant to downy mildew. Perennial. Cultivar. Plant.

PI 558549 to 558701-continued

- PI 558665 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** Willamette. **pedigree:** USDA 21003 x Fuggle seedling 2-4, selection 6761-117. **other id:** CV-6. **source:** Crop Sci. 16(5):739 1976. **group:** CSR-HOP. **other id:** USDA 21041. **remarks:** Yield potential about 30% higher than Fuggle, European aroma. Perennial. Cultivar. Plant.
- PI 558666 **origin:** United States. **historical origin:** Yugoslavia. **origin institute:** Institiue for Hop Research, Zalec, Oregon. **cultivar:** Styrian Golding. **pedigree:** Mass selection from Fuggle. **other id:** USDA 21049. **other id:** Savinjski Golding. **other id:** Savinja Golding. **remarks:** Major Yugoslavian export hop. Perennial. Cultivar. Plant.
- PI 558667 **origin:** United States. **historical origin:** Germany. **origin institute:** German Institute for Hop Research, Hull, Oregon. **cultivar:** Perle. **pedigree:** Northern Brewer (USDA 64107) x German male 63/5/27. **other id:** USDA 21227. **remarks:** Resistant to verticillium wilt and downy mildew. Perennial. Cultivar. Plant.
- PI 558668 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Wye College, Wye, England. **cultivar:** Bullion 10A. **pedigree:** Wild Manitoba BBl x open pollinated. **other id:** USDA 21056. **remarks:** High yield potential, tolerant to downy mildew, poor storage. Perennial. Cultivar. Plant.
- PI 558669 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Wye College, Wye, England. **cultivar:** Bullion 6A. **pedigree:** Wild Manitoba BBl x open pollinated. **other id:** USDA 21196. **remarks:** Sister selection to Bullion 10A, USDA 21056. Perennial. Cultivar. Plant.
- PI 558670 **origin:** United States. **origin institute:** Idaho Agricultural Experiment Station, University of Idaho, Parma, Idaho 83660. **cultivar:** Talisman. **pedigree:** Late Cluster x open pollinated. **other id:** USDA 65101. **remarks:** Acreage grown has declined since 1973. Perennial. Cultivar. Plant.
- PI 558671 **origin:** United Kingdom. **origin institute:** Wye College, Wye, England. **cultivar:** Bullion. **pedigree:** Wild Manitoba BBl x open pollinated. **other id:** USDA 64100. **remarks:** Was a major US hop variety from the mid-40's till the 80's. Perennial. Cultivar. Plant.

PI 558549 to 558701-continued

- PI 558672 **origin:** United States. **origin institute:** USDA Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** Columbia. **pedigree:** USDA 21003 x Fuggle seedling 2-4, selection 6761-61. **other id:** CV-5. **source:** Crop Sci. 16(5):738 1976. **group:** CSR-HOP. **other id:** USDA 21040. **remarks:** Sister selection of Willamette, USDA 21041. Perennial. Cultivar. Plant.
- PI 558673 **origin:** United States. **historical origin:** United States. **origin institute:** Idaho Agricultural Experiment Station, University of Idaho, Parma, Idaho 83660. **cultivar:** Galena. **pedigree:** Brewer's Gold (USDA 19001) x open pollinated. **other id:** CV-7. **source:** Crop Sci. 19(4):563 1979. **group:** CSR-HOP. **other id:** USDA 21182. **remarks:** Considered a super alpha hop by the trade. Perennial. Cultivar. Plant.
- PI 558674 **origin:** United States. **historical origin:** Czechoslovakia. **cultivar:** Saazer. **pedigree:** Sel. from a Czechoslovakian hop grown since the middle ages. **other id:** USDA 21077. **other id:** Bohemian. **other id:** Bohemian Red Hop. **remarks:** Very pleasant 'noble' aroma, good for super premium beers. Perennial. Cultivar. Plant.
- PI 558675 **origin:** United States. **historical origin:** United States. **origin institute:** Irrigated Ag. Res. and Extension Center, Washington State University, Prosser, Washington 99350. **cultivar:** Yakima Cluster. **pedigree:** Selection L-1 from commercail Late Cluster yard. **other id:** USDA 65102. **remarks:** Generally grouped with Early Cluster by the trade. Perennial. Cultivar. Plant.
- PI 558676 **origin:** United States. **historical origin:** South Africa. **origin institute:** South African Breweries Ltd., Blanco, Dist. George, Oregon. **cultivar:** Southern Brewer. **pedigree:** Fuggle N x OP backcross. **other id:** USDA 21187. **remarks:** Major hop variety in South Africa and India. Perennial. Cultivar. Plant.
- PI 558677 **origin:** United States. **historical origin:** France. **cultivar:** Tardif de Bourgogne. **pedigree:** Probably a clonal selection from a French landrace. **other id:** USDA 21169. **remarks:** Grown as an aroma hop in the Alsace region of France. Perennial. Cultivar. Plant.
- PI 558678 **origin:** United States. **historical origin:** Germany. **cultivar:** Swiss Tettnanger. **pedigree:** Unknown, developed from a German landrace. **other id:** USDA 61021. **other id:** Schwetzingen. **other id:** Deutscher Fruhhopfen. **remarks:** US demand is exceeding the supply for this cultivar. Perennial. Cultivar. Plant.

PI 558549 to 558701-continued

- PI 558679 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** Comet. **pedigree:** USDA 19120 x USDA 58006M (Cross 6185). **other id:** CV-3. **source:** Crop Sci. 15(1):98 1975. **group:** CSR-HOP. **other id:** USDA 62013. **remarks:** High alpha hop for production in Washington and Idaho. Perennial. Cultivar. Plant.
- PI 558680 **origin:** United States. **historical origin:** South Africa. **cultivar:** USDA 21167 Hybrid-2. **pedigree:** Open pollinated Golden Cluster seedling. **other id:** USDA 21167. **remarks:** Still grown commercially in India. Susceptible to mildew. Perennial. Breeding Material. Plant.
- PI 558681 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** Cascade. **pedigree:** [Fuggie x (Serebrianka-Fuggie S)] x OP, selection 55187. **other id:** CV-1. **source:** Crop Sci. 12(3):394 1972. **group:** CSR-HOP. **other id:** USDA 56013. **remarks:** Used as an aroma hop in certain brewery blends. Perennial. Cultivar. Plant.
- PI 558682 **origin:** United States. **historical origin:** Germany. **cultivar:** Tettlinger. **pedigree:** Unknown, developed from an old German landrace. **other id:** USDA 21015. **other id:** Schwetzingen. **other id:** Deutscher Fruhhopfen. **remarks:** European 'noble' aroma good for brewing superior beers. Perennial. Cultivar. Plant.
- PI 558683 **origin:** United States. **historical origin:** France. **cultivar:** Precoc de Bourgogne. **pedigree:** Probably a clonal selection of an old French landrace. **other id:** USDA 21168. **remarks:** Grown commercially in the Alsace region of France. Perennial. Cultivar. Plant.
- PI 558684 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Wye College, Wye, England. **cultivar:** Fuggie N. **pedigree:** Selection from Fuggie. **other id:** USDA 21016. **remarks:** Until recently it was grown extensively in England. Perennial. Cultivar. Plant.
- PI 558685 **origin:** United States. **historical origin:** Germany. **cultivar:** Landhopfen. **pedigree:** Unknown, probably a selection from an old German landrace. **other id:** USDA 21172. **remarks:** No longer grown anywhere in the world. Perennial. Cultivar. Plant.

PI 558549 to 558701-continued

- PI 558686 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Bramling. **other id:** USDA 21284. **remarks:** Now grown commercially near Sardis, BC as an aroma hop. Perennial. Cultivar. Plant.
- PI 558687 **origin:** United States. **historical origin:** France. **cultivar:** Elsasser. **pedigree:** Unknown, probably developed from old French landrace. **other id:** USDA 21170. **remarks:** Grown commercially in the Alsace region of France. Perennial. Cultivar. Plant.
- PI 558688 **origin:** United States. **historical origin:** Germany. **cultivar:** Spalter. **pedigree:** Unknown, probably developed from old German landrace. **other id:** USDA 21186. **remarks:** Pleasant European noble aroma characteristics. Perennial. Cultivar. Plant.
- PI 558689 **origin:** United States. **historical origin:** Japan. **origin institute:** Sapporo Brewery, Oregon. **cultivar:** Golden Star. **pedigree:** Saazer x White Vine OP, bud sport from Shinsuwase. **other id:** USDA 21039. **remarks:** Grown commercially only in Japan as an aroma hop. Perennial. Cultivar. Plant.
- PI 558690 **origin:** United States. **historical origin:** Germany. **cultivar:** Swiss Tettlinger. **pedigree:** Unknown, derived from an old German landrace. **other id:** USDA 21197. **remarks:** This clone may have become mixed with Fuggle in Prosser. Perennial. Cultivar. Plant.
- PI 558691 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21055. **pedigree:** USDA 62013 x USDA 6616-35M. **other id:** GP-5. **source:** Crop Sci. 18(5):919 1978. **group:** CSR-HOP. **other id:** USDA 21055. **remarks:** Transmits high alpha acids to its progeny. Perennial. Breeding Material. Plant.
- PI 558692 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** Fuggle T. **pedigree:** Chromosome doubling of Fuggle by colchicine treatment. **other id:** GP-1. **source:** Crop Sci. 11(6):945 1971. **group:** CSR-HOP. **other id:** USDA 21003. **remarks:** Female parent of Columbia and Willamette. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558693 **origin:** United States. **historical origin:** United States. **origin institute:** Washington State University, Agricultural Research Station, Prosser, Washington. **cultivar:** Chinook. **pedigree:** USDA 68052 x USDA 63012M. **other id:** CV-15. **source:** Crop Sci. 26(1):196 1986. **group:** CSR-HOP. **other id:** USDA 21226. **remarks:** Tested as a high alpha/aroma hop, adapted to OR, ID, WA. Perennial. Cultivar. Plant.
- PI 558694 **origin:** United States. **historical origin:** United States. **origin institute:** Irrigated Ag. Res. & Extension Center, Washington State University, Prosser, Washington 99350. **cultivar:** Olympic. **pedigree:** OR. Sel. 6619-04 x USDA 64028M. **other id:** CV-14. **source:** Crop Sci. 24(3):618 1984. **group:** CSR-HOP. **other id:** USDA 21225. **remarks:** Considered a superalpha hop by the trade. Perennial. Cultivar. Plant.
- PI 558695 **origin:** United States. **historical origin:** Japan. **origin institute:** Kirin Brewery Co. Ltd., Tokyo, Oregon. **cultivar:** Kirin II. **pedigree:** Saazer x White Vine OP. **other id:** USDA 21286. **remarks:** Major hop variety grown in Japan. Perennial. Cultivar. Plant.
- PI 558696 **origin:** United States. **historical origin:** United States. **origin institute:** University of Idaho, Experiment Station, Parma, Idaho. **cultivar:** USDA 21285. **pedigree:** OP Hallertauer seedling. **other id:** USDA 21285. **remarks:** European aroma characteristics. Perennial. Breeding Material. Plant.
- PI 558697 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21095. **pedigree:** Yakima Cluster x Zattler Seedling 64037M. **other id:** USDA 21095 Cross 6903-259. **remarks:** Agronomically similar to Yakima Cluster or Late Cluster but with improved Downy Mildew resistance. Perennial. Breeding Material. Plant.
- PI 558698 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 58112. **pedigree:** (Bullion x Fuggle-Fuggle seedling) x OP. **other id:** USDA 58112. **remarks:** Some yellow flecking on the leaves which may be genetic. Perennial. Breeding Material. Plant.

PI 558549 to 558701-continued

- PI 558699 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21108M. **pedigree:** (Brewer's Gold x Early Green-unknown sdlg) x Zattler sdlg. **other id:** USDA 21108M. **remarks:** 2n, excellent pollen producer, high alpha/beta ratio combined with exceptionally low cohumulone content. Perennial. Breeding Material. Plant.
- PI 558700 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 52042M. **pedigree:** (Late Grape-Fuggle sdlg) x (Late Grape-Fuggle sdlg). **other id:** USDA 52042M. **remarks:** Resistant to downy mildew in the field, good yield potential. Perennial. Breeding Material. Plant.
- PI 558701 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21109M. **pedigree:** (Brewer's Gold x Early Green-unknown sdlg) x Zattler sdlg. **other id:** USDA 21109M. **remarks:** Resistant to downy mildew in the field, good yield potential 2n, very good pollen producer, excep. low cohumulone content. Perennial. Breeding Material. Plant.

PI 558702 to 558945. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, East Farm, Corvallis, Oregon, United States; and Oregon Agr. Exp. Sta.. **remarks:** Liberty Hop. Received December 04, 1991.

- PI 558702 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60027 Colorado 2-2. **pedigree:** Selected from the wild in Colorado. **collected:** 1960. **other id:** USDA 60027. Perennial. Breeding Material. Plant.
- PI 558703 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Keyworth's Early. **other id:** USDA 21278. Perennial. Cultivar. Plant.
- PI 558704 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Bobek. **other id:** USDA 21239. Perennial. Cultivar. Plant.
- PI 558705 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Sunshine. **other id:** USDA 21281. Perennial. Cultivar. Plant.

PI 558702 to 558945-continued

- PI 558706 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Nadwislanska. **other id:** USDA 21114.
Perennial. Cultivar. Plant.
- PI 558707 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Wye College, Wye, England.
cultivar: Wye Viking. **other id:** USDA 21283. Perennial.
Cultivar. Plant.
- PI 558708 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Wye College, Wye, England.
cultivar: Wye Saxon. **other id:** USDA 21282. Perennial.
Cultivar. Plant.
- PI 558709 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Lublin. **other id:** USDA 21113. Perennial.
Cultivar. Plant.
- PI 558710 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Wye College, Wye, England.
cultivar: Northern Brewer v.f.. **pedigree:** Canterbury Golding x OB21 (19001 x American male OY1). **other id:** USDA 21093. Perennial. Cultivar. Plant.
- PI 558711 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Early Prolific. **other id:** USDA 21276.
Perennial. Cultivar. Plant.
- PI 558712 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Pride of Kent. **other id:** USDA 21280.
Perennial. Cultivar. Plant.
- PI 558713 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Early Promise. **other id:** USDA 21277.
Perennial. Cultivar. Plant.
- PI 558714 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Buket. **other id:** USDA 21240. Perennial.
Cultivar. Plant.
- PI 558715 **origin:** United States. **historical origin:** Yugoslavia.
origin institute: Institute for Agricultural Research, University of Novi Sad, Hop Research Station, Backi Petrovac, Oregon. **cultivar:** Vojvodina. **pedigree:** Northern Brewer (64107) x [male (Sx502)]. **other id:** USDA 21083. Perennial. Cultivar. Plant.

PI 558702 to 558945-continued

- PI 558716 **origin:** United States. **historical origin:** Yugoslavia. **origin institute:** Institute for Agricultural Research, University of Novi Sad, Hop Research Station, Backi Petrovac, Oregon. **cultivar:** Neoplanta. **pedigree:** Northern Brewer (64107) x [male (Sx502)]. **other id:** USDA 21082. Perennial. Cultivar. Plant.
- PI 558717 **origin:** United States. **historical origin:** Yugoslavia. **origin institute:** Institute for Agricultural Research, University of Novi Sad, Hop Research Station, Backi Petrovac, Oregon. **cultivar:** Dunav. **pedigree:** Northern Brewer (64107) x [male (Sx-502)]. **other id:** USDA 21081. Perennial. Cultivar. Plant.
- PI 558718 **origin:** United States. **historical origin:** Yugoslavia. **cultivar:** Backa. **pedigree:** Unknown, prob. from an indigenous Yugoslavian landrace. **other id:** USDA 21080. Perennial. Cultivar. Plant.
- PI 558719 **origin:** United States. **historical origin:** Yugoslavia. **origin institute:** Hop Research Institute, Zalec, Slovenia, Oregon. **cultivar:** Atlas. **pedigree:** Brewer's Gold (19001) x Yugoslavian male 3/3M (21087M). **other id:** USDA 21052. Perennial. Cultivar. Plant.
- PI 558720 **origin:** United States. **historical origin:** Yugoslavia. **origin institute:** Hop Research Institute, Zalec, Slovenia, Oregon. **cultivar:** Ahil. **pedigree:** Brewer's Gold (19001) x male 3/3 (21087M). **other id:** USDA 21050. Perennial. Cultivar. Plant.
- PI 558721 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Groene Bel. **other id:** USDA 21216. Perennial. Cultivar. Plant.
- PI 558722 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Alliance. **other id:** USDA 66050. Perennial. Cultivar. Plant.
- PI 558723 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Progress. **other id:** USDA 66051. Perennial. Cultivar. Plant.
- PI 558724 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Petham Golding. **other id:** USDA 68052. Perennial. Cultivar. Plant.
- PI 558725 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Smooth Cone. **other id:** USDA 66056. Perennial. Cultivar. Plant.

PI 558702 to 558945-continued

- PI 558726 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: First Choice. **other id:** USDA 66055.
Perennial. Cultivar. Plant.
- PI 558727 **origin:** United States. **historical origin:** United States.
origin institute: USDA/ARS, Oregon, Washington and, Idaho
Experiment Stations, Parma, Idaho. **cultivar:** Eroica.
pedigree: Brewer's Gold (19001) x OP. **other id:** USDA
21183. **remarks:** Develops conspicuous yellow flecking on
lower leaves. Perennial. Cultivar. Plant.
- PI 558728 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Calicross. **other id:** USDA 66054. Perennial.
Cultivar. Plant.
- PI 558729 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Star. **other id:** USDA 21217. Perennial.
Cultivar. Plant.
- PI 558730 **origin:** United States. **historical origin:** United
Kingdom. **origin institute:** Wye College, Wye, England.
cultivar: Wye Northern. **other id:** USDA 21044.
Perennial. Cultivar. Plant.
- PI 558731 **origin:** United States. **historical origin:** United
Kingdom. **origin institute:** Wye College, Wye, England.
cultivar: Wye Challenger. **other id:** USDA 21043.
Perennial. Cultivar. Plant.
- PI 558732 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Nordgaard 1478. **other id:** USDA 21215.
Perennial. Cultivar. Plant.
- PI 558733 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Strisselspalt. **other id:** USDA 21173.
Perennial. Cultivar. Plant.
- PI 558734 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Hersbrucker - G. **other id:** USDA 21185.
Perennial. Cultivar. Plant.
- PI 558735 **origin:** United States. **historical origin:** United
Kingdom. **origin institute:** Wye College, Wye, England.
cultivar: Brewer's Gold. **pedigree:** Canterbury Golding x
Brewer's Golding-American Male OY1. **other id:** USDA
19001. **remarks:** Major hop variety in Europe due to
Verticillium resistance. Perennial. Cultivar. Plant.
- PI 558736 **origin:** United States. **historical origin:** Germany.
cultivar: Hallertauer m.f.. **pedigree:** Unknown, selected
from an old German landrace. **other id:** USDA 21014.
Perennial. Cultivar. Plant.

PI 558702 to 558945-continued

- PI 558737 **origin:** United States. **historical origin:** United States. **cultivar:** Late Cluster, L-16. **pedigree:** Mass selection of Late Cluster in a commercial hop yard. **other id:** USDA 21011. **remarks:** Not adapted to Western Oregon because of downy mildew susceptibility. Perennial. Cultivar. Plant.
- PI 558738 **origin:** United States. **historical origin:** Germany. **cultivar:** Hallertauer (Fu-type). **other id:** USDA 21228. Perennial. Cultivar. Plant.
- PI 558739 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21261. **pedigree:** 65009 x 19046M. **other id:** USDA 21261. Perennial. Breeding Material. Plant.
- PI 558740 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21246. **pedigree:** 21055 x 21108M. **other id:** USDA 21246. Perennial. Breeding Material. Plant.
- PI 558741 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21247. **pedigree:** 21055 x 21108M. **other id:** USDA 21247. Perennial. Breeding Material. Plant.
- PI 558742 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21382. **pedigree:** Cas x 19058M. **other id:** USDA 21382. Perennial. Breeding Material. Plant.
- PI 558743 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21199. **pedigree:** 65009 x 19182M. **other id:** USDA 21199. Perennial. Breeding Material. Plant.
- PI 558744 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS, Oregon, Washington and Idaho, Experiment Stations, Parma, Idaho. **cultivar:** Eroica v.f.. **pedigree:** Brewer's Gold x OP. **other id:** USDA 21200. **remarks:** Develops conspicuous yellow flecking on lower leaves. Perennial. Breeding Material. Plant.

- PI 558745 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21202. **pedigree:** YC x 64037M. **other id:** USDA 21202. Perennial. Breeding Material. Plant.
- PI 558746 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21250. **pedigree:** 21055 x 21108M. **other id:** USDA 21250. Perennial. Breeding Material. Plant.
- PI 558747 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21251. **pedigree:** 21055 x 21109M. **other id:** USDA 21251. Perennial. Breeding Material. Plant.
- PI 558748 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21257. **pedigree:** 21055 x 21110M. **other id:** USDA 21257. Perennial. Breeding Material. Plant.
- PI 558749 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21254. **pedigree:** 21055 x 21109M. **other id:** USDA 21254. Perennial. Breeding Material. Plant.
- PI 558750 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21256. **pedigree:** 21055 x 21110M. **other id:** USDA 21256. Perennial. Breeding Material. Plant.
- PI 558751 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 60024 Colorado 1-2. **pedigree:** Selected from the wild in Colorado. **collected:** 1960. **other id:** USDA 60024. Perennial. Breeding Material. Plant.
- PI 558752 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21369. **pedigree:** Tetr. Atlas x (NBxSavG-TG). **other id:** USDA 21369. Perennial. Breeding Material. Plant.
- PI 558753 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Yeoman. **other id:** USDA 21498. Perennial. Cultivar. Plant.

PI 558702 to 558945-continued

- PI 558754 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21370. **pedigree:** Tetr. Atlas x (NBxSavG-TG). **other id:** USDA 21370. Perennial. Breeding Material. Plant.
- PI 558755 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-04. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-04. Perennial. Breeding Material. Plant.
- PI 558756 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Hersbrucker-6. **other id:** USDA 21514. Perennial. Cultivar. Plant.
- PI 558757 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Zenith. **other id:** USDA 21499. Perennial. Cultivar. Plant.
- PI 558758 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-41. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-41. Perennial. Breeding Material. Plant.
- PI 558759 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Banner. **other id:** USDA 21287. Perennial. Cultivar. Plant.
- PI 558760 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8019-03. **pedigree:** 19185 x 21266M. **other id:** USDA 8019-03. Perennial. Breeding Material. Plant.
- PI 558761 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Hersbrucker-8. **other id:** USDA 21515. Perennial. Cultivar. Plant.
- PI 558762 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8303-17. **pedigree:** 21397 x 64035M. **other id:** USDA 8303-17. Perennial. Breeding Material. Plant.
- PI 558763 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8303-37. **pedigree:** 21397 x 64035M. **other id:** USDA 8303-37. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558764 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21519. **pedigree:** Apolon x (Dunav2 x NB-OP). **other id:** USDA 21519. Perennial. Breeding Material. Plant.
- PI 558765 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8601-25. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8601-25. Perennial. Breeding Material. Plant.
- PI 558766 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8020-32. **pedigree:** 19185 x 21267M. **other id:** USDA 8020-32. Perennial. Breeding Material. Plant.
- PI 558767 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8021-11. **pedigree:** 19185 x 21268M. **other id:** USDA 8021-11. Perennial. Breeding Material. Plant.
- PI 558768 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21520. **pedigree:** Ba x (Groene Bel2 x NB-OP). **other id:** USDA 21520. Perennial. Breeding Material. Plant.
- PI 558769 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Stickelbract. **other id:** USDA 21403. Perennial. Cultivar. Plant.
- PI 558770 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-68. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-68. Perennial. Breeding Material. Plant.
- PI 558771 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Green Bullet. **other id:** USDA 21404. Perennial. Cultivar. Plant.
- PI 558772 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-70. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-70. Perennial. Breeding Material. Plant.

I 558702 to 558945-continued

- PI 558773 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8303-66. **pedigree:** 21397 x 64035M. **other id:** USDA 8303-66. Perennial. Breeding Material. Plant.
- PI 558774 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** SuperAlpha. **other id:** USDA 21405. Perennial. Cultivar. Plant.
- PI 558775 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Alpharoma. **other id:** USDA 21406. Perennial. Cultivar. Plant.
- PI 558776 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-76. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-76. Perennial. Breeding Material. Plant.
- PI 558777 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8303-77. **pedigree:** 21397 x 64035M. **other id:** USDA 8303-77. Perennial. Breeding Material. Plant.
- PI 558778 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21397. **pedigree:** tetrapl. Hallertauer m.f. **other id:** USDA 21397. Perennial. Breeding Material. Plant.
- PI 558779 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8303-88. **pedigree:** 21397 x 64035M. **other id:** USDA 8303-88. Perennial. Breeding Material. Plant.
- PI 558780 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-132. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-132. Perennial. Breeding Material. Plant.
- PI 558781 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8403-121. **pedigree:** 21397 x 64035M. **other id:** USDA 8403-121. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558782 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8301-01. **pedigree:** 21397 x 19058M. **other id:** USDA 8301-01. Perennial. Breeding Material. Plant.
- PI 558783 **origin:** United States. **historical origin:** Czechoslovakia. **cultivar:** Saazer 36 v.f.. **pedigree:** Unknown, prob. a landrace in Czechosl. since the Middle Ages. **other id:** USDA 21521. Perennial. Cultivar. Plant.
- PI 558784 **origin:** United States. **historical origin:** Czechoslovakia. **cultivar:** Saazer 38 v.f.. **pedigree:** Unknown, prob. a landrace in Czechosl. since the Middle Ages. **other id:** USDA 21522. Perennial. Cultivar. Plant.
- PI 558785 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-145. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-145. Perennial. Breeding Material. Plant.
- PI 558786 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8301-57. **pedigree:** 21397 x 19058M. **other id:** USDA 8301-57. Perennial. Breeding Material. Plant.
- PI 558787 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-158. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-158. Perennial. Breeding Material. Plant.
- PI 558788 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-163. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-163. Perennial. Breeding Material. Plant.
- PI 558789 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8303-122. **pedigree:** 21397 x 64035M. **other id:** USDA 8303-122. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558790 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21485. **pedigree:** SB x [Ha-OP x (Saazer x Ha-OP)]. **other id:** USDA 21485. Perennial. Breeding Material. Plant.
- PI 558791 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Hersbrucker-9. **other id:** USDA 21516. Perennial. Cultivar. Plant.
- PI 558792 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Hersbrucker-red stem. **other id:** USDA 21517. Perennial. Cultivar. Plant.
- PI 558793 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Hersbrucker-alpha. **other id:** USDA 21518. Perennial. Cultivar. Plant.
- PI 558794 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-175. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-175. Perennial. Breeding Material. Plant.
- PI 558795 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Lubelska v.f.. **other id:** USDA 21523. Perennial. Cultivar. Plant.
- PI 558796 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Nadwislanska v.f.. **other id:** USDA 21524. Perennial. Cultivar. Plant.
- PI 558797 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-192. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-192. Perennial. Breeding Material. Plant.
- PI 558798 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8401-196. **pedigree:** 21397 x 19172M. **other id:** USDA 8401-196. Perennial. Breeding Material. Plant.
- PI 558799 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8601-58. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8601-58. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558800 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8405-38. **pedigree:** 21397 x 21337M. **other id:** USDA 8405-38. Perennial. Breeding Material. Plant.
- PI 558801 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8021-40. **pedigree:** 19185 x 21268M. **other id:** USDA 8021-40. Perennial. Breeding Material. Plant.
- PI 558802 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-35. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-35. Perennial. Breeding Material. Plant.
- PI 558803 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-55. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-55. Perennial. Breeding Material. Plant.
- PI 558804 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8303-124. **pedigree:** 21397 x 64035M. **other id:** USDA 8303-124. Perennial. Breeding Material. Plant.
- PI 558805 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8405-39. **pedigree:** 21397 x 21337M. **other id:** USDA 8405-39. Perennial. Breeding Material. Plant.
- PI 558806 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8303-142. **pedigree:** 21397 x 64035M. **other id:** USDA 8303-142. Perennial. Breeding Material. Plant.
- PI 558807 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8405-84. **pedigree:** 21397 x 21337M. **other id:** USDA 8405-84. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558808 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-119. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-119. Perennial. Breeding Material. Plant.
- PI 558809 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8405-101. **pedigree:** 21397 x 21337M. **other id:** USDA 8405-101. Perennial. Breeding Material. Plant.
- PI 558810 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8304-67. **pedigree:** 21397 x 64037M. **other id:** USDA 8304-67. Perennial. Breeding Material. Plant.
- PI 558811 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-162. **pedigree:** 6021 x 8309-26M. **other id:** USDA 8602-162. Perennial. Breeding Material. Plant.
- PI 558812 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8406-04. **pedigree:** 21397 x 21361M. **other id:** USDA 8406-04. Perennial. Breeding Material. Plant.
- PI 558813 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21407. **pedigree:** Cascade x OP. **other id:** USDA 21407. Perennial. Breeding Material. Plant.
- PI 558814 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8406-38. **pedigree:** 21397 x 21361M. **other id:** USDA 8406-38. Perennial. Breeding Material. Plant.
- PI 558815 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21408. **pedigree:** 65009 x 63012M. **other id:** USDA 21408. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558816 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21513. **pedigree:** Cas x 19058M. **other id:** USDA 21513. Perennial. Breeding Material. Plant.
- PI 558817 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-189. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-189. Perennial. Breeding Material. Plant.
- PI 558818 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-207. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-207. Perennial. Breeding Material. Plant.
- PI 558819 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21500. **pedigree:** Cas x 19058M. **other id:** USDA 21500. Perennial. Breeding Material. Plant.
- PI 558820 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-274. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-274. Perennial. Breeding Material. Plant.
- PI 558821 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-278. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-278. Perennial. Breeding Material. Plant.
- PI 558822 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8406-84. **pedigree:** 21397 x 21361M. **other id:** USDA 8406-84. Perennial. Breeding Material. Plant.
- PI 558823 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8406-90. **pedigree:** 21397 x 21361M. **other id:** USDA 8406-90. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558824 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8407-06. **pedigree:** 21397 x 21380M. **other id:** USDA 8407-06. Perennial. Breeding Material. Plant.
- PI 558825 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8407-20. **pedigree:** 21397 x 21380M. **other id:** USDA 8407-20. Perennial. Breeding Material. Plant.
- PI 558826 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8407-26. **pedigree:** 21397 x 21380M. **other id:** USDA 8407-26. Perennial. Breeding Material. Plant.
- PI 558827 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8407-35. **pedigree:** 21397 x 21380M. **other id:** USDA 8407-35. Perennial. Breeding Material. Plant.
- PI 558828 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8025-57. **pedigree:** 19185 x 21344M. **other id:** USDA 8025-57. Perennial. Breeding Material. Plant.
- PI 558829 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 5026-152. **pedigree:** 19185 x 21353M. **other id:** USDA 5026-152. Perennial. Breeding Material. Plant.
- PI 558830 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21502. **pedigree:** Cas x 19058M. **other id:** USDA 21502. Perennial. Breeding Material. Plant.
- PI 558831 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-300. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-300. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558832 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-305. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-305. Perennial. Breeding Material. Plant.
- PI 558833 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8407-43. **pedigree:** 21397 x 21380M. **other id:** USDA 8407-43. Perennial. Breeding Material. Plant.
- PI 558834 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-411. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-411. Perennial. Breeding Material. Plant.
- PI 558835 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8602-578. **pedigree:** 61021 x 8309-26M. **other id:** USDA 8602-578. Perennial. Breeding Material. Plant.
- PI 558836 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21409. **pedigree:** 65009 x 19046M. **other id:** USDA 21409. Perennial. Breeding Material. Plant.
- PI 558837 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21503. **pedigree:** Cas x 19058M. **other id:** USDA 21503. Perennial. Breeding Material. Plant.
- PI 558838 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8408-01. **pedigree:** 21397 x 21381M. **other id:** USDA 8408-01. Perennial. Breeding Material. Plant.
- PI 558839 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8304-90. **pedigree:** 21397 x 64037M. **other id:** USDA 8304-90. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558840 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8304-120. **pedigree:** 21397 x 64037M. **other id:** USDA 8304-120. Perennial. Breeding Material. Plant.
- PI 558841 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8603-73. **pedigree:** 61021 x 8309-32M. **other id:** USDA 8603-73. Perennial. Breeding Material. Plant.
- PI 558842 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8603-77. **pedigree:** 61021 x 8309-32M. **other id:** USDA 8603-77. Perennial. Breeding Material. Plant.
- PI 558843 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8603-97. **pedigree:** 61021 x 8309-32M. **other id:** USDA 8603-97. Perennial. Breeding Material. Plant.
- PI 558844 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8603-232. **pedigree:** 61021 x 8309-32M. **other id:** USDA 8603-232. Perennial. Breeding Material. Plant.
- PI 558845 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8603-288. **pedigree:** 61021 x 8309-32M. **other id:** USDA 8603-288. Perennial. Breeding Material. Plant.
- PI 558846 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8603-314. **pedigree:** 61021 x 8309-32M. **other id:** USDA 8603-314. Perennial. Breeding Material. Plant.
- PI 558847 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8408-66. **pedigree:** 21397 x 21381M. **other id:** USDA 8408-66. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558848 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8603-346. **pedigree:** 61021 x 8309-32M. **other id:** USDA 8603-346. Perennial. Breeding Material. Plant.
- PI 558849 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8408-70. **pedigree:** 21397 x 21381M. **other id:** USDA 8408-70. Perennial. Breeding Material. Plant.
- PI 558850 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8408-74. **pedigree:** 21397 x 21381M. **other id:** USDA 8408-74. Perennial. Breeding Material. Plant.
- PI 558851 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8308-44. **pedigree:** 21397 x 21362M. **other id:** USDA 8308-44. Perennial. Breeding Material. Plant.
- PI 558852 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8308-46. **pedigree:** 21397 x 21362M. **other id:** USDA 8308-46. Perennial. Breeding Material. Plant.
- PI 558853 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8408-126. **pedigree:** 21397 x 21381M. **other id:** USDA 8408-126. Perennial. Breeding Material. Plant.
- PI 558854 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8031-02. **pedigree:** 56013 x 21271M. **other id:** USDA 8031-02. Perennial. Breeding Material. Plant.
- PI 558855 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8409-18. **pedigree:** 21397 x 64033M. **other id:** USDA 8409-18. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558856 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8309-04. **pedigree:** 21397 x 21381M. **other id:** USDA 8309-04. Perennial. Breeding Material. Plant.
- PI 558857 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8603-481. **pedigree:** 61021 x 8309-32M. **other id:** USDA 8603-481. Perennial. Breeding Material. Plant.
- PI 558858 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8309-05. **pedigree:** 21397 x 21381M. **other id:** USDA 8309-05. Perennial. Breeding Material. Plant.
- PI 558859 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21494. **pedigree:** Cas x 21336M. **other id:** USDA 21494. Perennial. Breeding Material. Plant.
- PI 558860 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8309-07. **pedigree:** 21397 x 21381M. **other id:** USDA 8309-07. Perennial. Breeding Material. Plant.
- PI 558861 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8309-08. **pedigree:** 21397 x 21381M. **other id:** USDA 8309-08. Perennial. Breeding Material. Plant.
- PI 558862 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8603-564. **pedigree:** 61021 x 8309-32M. **other id:** USDA 8603-564. Perennial. Breeding Material. Plant.
- PI 558863 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8309-10. **pedigree:** 21397 x 21381M. **other id:** USDA 8309-10. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558864 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21120. **pedigree:** 19005 x 19046M. **other id:** USDA 21120. Perennial. Breeding Material. Plant.
- PI 558865 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8309-24. **pedigree:** 21397 x 21381M. **other id:** USDA 8309-24. Perennial. Breeding Material. Plant.
- PI 558866 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21484. **pedigree:** 21397 x 21237M. **other id:** USDA 21484. Perennial. Breeding Material. Plant.
- PI 558867 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8309-34. **pedigree:** 21397 x 21281M. **other id:** USDA 8309-34. Perennial. Breeding Material. Plant.
- PI 558868 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21490. **pedigree:** 21397 x 21281M. **other id:** USDA 21490. Perennial. Breeding Material. Plant.
- PI 558869 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, East Farm, Corvallis, Oregon. **cultivar:** Liberty. **pedigree:** 4x Hallertauer m.f. (21397) x Zattler Seedling (64035M). **other id:** USDA 21457. **other id:** CV-18. **group:** CSR-HOP. **remarks:** Maturity early (Aug. 25-30 in Western Oregon). Quality and aroma characteristics similar to Hallertauer mittelfruh. Oil content 0.6-1.2 ml/100g. Columnar growth habit with characteristic head formation and sidearms approximately 60-90cm long. Most cones found in upper half of plant. Moderately resistant to hop downy mildew (*Pseudoperonospora humuli*). Yield high. Similar to imported. Perennial. Cultivar. Plant.
- PI 558870 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8254-167. **pedigree:** 21285 x 64037M. **other id:** USDA 8254-167. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558871 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8254-244. **pedigree:** 21285 x 64037M. **other id:** USDA 8254-244. Perennial. Breeding Material. Plant.
- PI 558872 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21469. **pedigree:** 21397 x 19058M. **other id:** USDA 21469. Perennial. Breeding Material. Plant.
- PI 558873 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21491. **pedigree:** 21397 x 21337M. **other id:** USDA 21491. Perennial. Breeding Material. Plant.
- PI 558874 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8036-83. **pedigree:** 64003 x 21268M. **other id:** USDA 8036-83. Perennial. Breeding Material. Plant.
- PI 558875 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8036-84. **pedigree:** 64003 x 21268M. **other id:** USDA 8036-84. Perennial. Breeding Material. Plant.
- PI 558876 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21505. **pedigree:** 64003 x 21268M. **other id:** USDA 21505. Perennial. Breeding Material. Plant.
- PI 558877 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Tettnanger B. **other id:** USDA 21497. Perennial. Cultivar. Plant.
- PI 558878 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21470. **pedigree:** 21397 x 19058M. **other id:** USDA 21470. Perennial. Breeding Material. Plant.
- PI 558879 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21486. **pedigree:** Cas x 21137M. **other id:** USDA 21486. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558880 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21471. **pedigree:** 21397 x 19058M. **other id:** USDA 21471. Perennial. Breeding Material. Plant.
- PI 558881 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21473. **pedigree:** 21397 x 64035M. **other id:** USDA 21473. Perennial. Breeding Material. Plant.
- PI 558882 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21459. **pedigree:** 21397 x 21362M. **other id:** USDA 21459. Perennial. Breeding Material. Plant.
- PI 558883 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21492. **pedigree:** 21397 x 21381M. **other id:** USDA 21492. Perennial. Breeding Material. Plant.
- PI 558884 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 8308-20. **pedigree:** 21397 x 21362M. **other id:** USDA 8308-20. Perennial. Breeding Material. Plant.
- PI 558885 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21536. **pedigree:** 65009 x 19046M. **other id:** USDA 21536. Perennial. Breeding Material. Plant.
- PI 558886 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21493. **pedigree:** 21397 x 21381M. **other id:** USDA 21493. Perennial. Breeding Material. Plant.
- PI 558887 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21511. **pedigree:** 21254 x 21328M. **other id:** USDA 21511. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558888 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21512. **pedigree:** 21254 x 21335M. **other id:** USDA 21512. Perennial. Breeding Material. Plant.
- PI 558889 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Hersbrucker-E. **other id:** USDA 21179. Perennial. Cultivar. Plant.
- PI 558890 **origin:** United States. **historical origin:** Germany. **cultivar:** Hallertauer. **other id:** USDA 56001. Perennial. Cultivar. Plant.
- PI 558891 **origin:** United States. **historical origin:** Yugoslavia. **cultivar:** Backa. **pedigree:** Unknown, landrace from Backa region of Yugoslavia. **other id:** USDA 56002. Perennial. Cultivar. Plant.
- PI 558892 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Yugoslavian Golding. **other id:** USDA 60019. Perennial. Cultivar. Plant.
- PI 558893 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** NP 2/55. **other id:** USDA 21188. Perennial. Breeding Material. Plant.
- PI 558894 **origin:** United States. **historical origin:** Germany. **origin institute:** German Institute for Hops Research, Hull, Oregon. **cultivar:** Hueller Bitterer. **pedigree:** Northern Brewer seedling selection. **other id:** USDA 21097. Perennial. Cultivar. Plant.
- PI 558895 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon. **cultivar:** Cascade v.f.. **pedigree:** [Fuggle x (Serebrianka-Fuggle Seedling)] x OP. **other id:** USDA 21092. Perennial. Cultivar. Plant.
- PI 558896 **origin:** United States. **cultivar:** Record. **other id:** USDA 21078. Perennial. Cultivar. Plant.
- PI 558897 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Keyworth's Midseason. **other id:** USDA 21179. Perennial. Cultivar. Plant.
- PI 558898 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Tolhurst. **other id:** USDA 21396. Perennial. Cultivar. Plant.

PI 558702 to 558945-continued

- PI 558899 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21596 Utah 11. **pedigree:** Selected from the wild in Utah. **other id:** USDA 21596. Perennial. Breeding Material. Plant.
- PI 558900 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21599 Utah 12. **pedigree:** Selected from the wild in Utah. **other id:** USDA 21599. Perennial. Breeding Material. Plant.
- PI 558901 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21600 Utah 13. **pedigree:** Selected from the wild in Utah. **other id:** USDA 21600. Perennial. Breeding Material. Plant.
- PI 558902 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21552 Missouri 4. **pedigree:** Selected from the wild in Missouri. **other id:** USDA 21552. Perennial. Breeding Material. Plant.
- PI 558903 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21557 Missouri 3. **pedigree:** Selected from the wild in Missouri. **other id:** USDA 21557. Perennial. Breeding Material. Plant.
- PI 558904 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21562 Iowa 2. **pedigree:** Selected from the wild in Iowa. **other id:** USDA 21562. Perennial. Breeding Material. Plant.
- PI 558905 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21564 Iowa 4. **pedigree:** Selected from the wild in Iowa. **other id:** USDA 21564. Perennial. Breeding Material. Plant.
- PI 558906 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21565 Iowa 5. **pedigree:** Selected from the wild in Iowa. **other id:** USDA 21565. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558907 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21578 Montana 6. **pedigree:** Selected from the wild in Montana. **other id:** USDA 21578. Perennial. Breeding Material. Plant.
- PI 558908 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21583 Montana 10. **pedigree:** Selected from the wild in Montana. **other id:** USDA 21583. Perennial. Breeding Material. Plant.
- PI 558909 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21586 Montana 12. **pedigree:** Selected from the wild in Montana. **other id:** USDA 21586. Perennial. Breeding Material. Plant.
- PI 558910 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21594 Montana 20. **pedigree:** Selected from the wild in Montana. **other id:** USDA 21594. Perennial. Breeding Material. Plant.
- PI 558911 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21602 Montana 24. **pedigree:** Selected from the wild in Montana. **other id:** USDA 21602. Perennial. Breeding Material. Plant.
- PI 558912 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21551 Nebraska 3. **pedigree:** Selected from the wild in Nebraska. **other id:** USDA 21551. Perennial. Breeding Material. Plant.
- PI 558913 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21554 Nebraska 6. **pedigree:** Selected from the wild in Nebraska. **other id:** USDA 21554. Perennial. Breeding Material. Plant.

PI 558702 to 558945-continued

- PI 558914 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21556
Missouri 2. **pedigree:** Selected from the wild in
Missouri. **other id:** USDA 21556. Perennial. Breeding
Material. Plant.
- PI 558915 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21559
Missouri 5. **pedigree:** Selected from the wild in
Missouri. **other id:** USDA 21559. Perennial. Breeding
Material. Plant.
- PI 558916 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21563
Iowa 3. **pedigree:** Selected from the wild in Iowa. **other**
id: USDA 21563. Perennial. Breeding Material. Plant.
- PI 558917 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21566
Iowa 6. **pedigree:** Selected from the wild in Iowa. **other**
id: USDA 21566. Perennial. Breeding Material. Plant.
- PI 558918 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21567
Iowa 7. **pedigree:** Selected from the wild in Iowa. **other**
id: USDA 21567. Perennial. Breeding Material. Plant.
- PI 558919 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21568
North Dakota 1. **pedigree:** Selected from the wild in
North Dakota. **other id:** USDA 21568. Perennial.
Breeding Material. Plant.
- PI 558920 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21576
Montana 4. **pedigree:** Selected from the wild in Montana.
other id: USDA 21576. Perennial. Breeding Material.
Plant.
- PI 558921 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21579
Montana 7. **pedigree:** Selected from the wild in Montana.
other id: USDA 21579. Perennial. Breeding Material.
Plant.

PI 558702 to 558945-continued

- PI 558922 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21581
Montana 9. **pedigree:** Selected from the wild in Montana.
other id: USDA 21581. Perennial. Breeding Material.
Plant.
- PI 558923 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21590
Montana 16. **pedigree:** Selected from the wild in Montana.
other id: USDA 21590. Perennial. Breeding Material.
Plant.
- PI 558924 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21591
Montana 17. **pedigree:** Selected from the wild in Montana.
other id: USDA 21591. Perennial. Breeding Material.
Plant.
- PI 558925 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21592
Montana 18. **pedigree:** Selected from the wild in Montana.
other id: USDA 21592. Perennial. Breeding Material.
Plant.
- PI 558926 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21595M
Montana 21. **pedigree:** Selected from the wild in Montana.
other id: USDA 21595M. Perennial. Breeding Material.
Plant.
- PI 558927 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21555M
Missouri 1. **pedigree:** Selected from the wild in
Missouri. **other id:** USDA 21555M. Perennial. Breeding
Material. Plant.
- PI 558928 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21558M
Missouri 4. **pedigree:** Selected from the wild in
Missouri. **other id:** USDA 21558M. Perennial. Breeding
Material. Plant.

PI 558702 to 558945-continued

- PI 558929 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21561M
Iowa 1. **pedigree:** Selected from the wild in Iowa. **other**
id: USDA 21561M. Perennial. Breeding Material. Plant.
- PI 558930 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21569M
North Dakota 2. **pedigree:** Selected from the wild in
North Dakota. **other id:** USDA 21569M. Perennial.
Breeding Material. Plant.
- PI 558931 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21570M
North Dakota 3. **pedigree:** Selected from the wild in
North Dakota. **other id:** USDA 21570M. Perennial.
Breeding Material. Plant.
- PI 558932 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21572M
North Dakota 5. **pedigree:** Selected from the wild in
North Dakota. **other id:** USDA 21572M. Perennial.
Breeding Material. Plant.
- PI 558933 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21573M
North Dakota 6. **pedigree:** Selected from the wild in
North Dakota. **other id:** USDA 21573M. Perennial.
Breeding Material. Plant.
- PI 558934 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21582M
Missouri 7. **pedigree:** Selected from the wild in
Missouri. **other id:** USDA 21582M. Perennial. Breeding
Material. Plant.
- PI 558935 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21597M
Montana 22. **pedigree:** Selected from the wild in Montana.
other id: USDA 21597M. Perennial. Breeding Material.
Plant.

PI 558702 to 558945-continued

- PI 558936 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21601M
Montana 23. **pedigree:** Selected from the wild in Montana.
other id: USDA 21601M. Perennial. Breeding Material.
Plant.
- PI 558937 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21549M
Nebraska 1. **pedigree:** Selected from the wild in
Nebraska. **other id:** USDA 21549M. Perennial. Breeding
Material. Plant.
- PI 558938 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21560M
Missouri 6. **pedigree:** Selected from the wild in
Missouri. **other id:** USDA 21560M. Perennial. Breeding
Material. Plant.
- PI 558939 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21571M
North Dakota 4. **pedigree:** Selected from the wild in
North Dakota. **other id:** USDA 21571M. Perennial.
Breeding Material. Plant.
- PI 558940 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21574M
North Dakota 7. **pedigree:** Selected from the wild in
North Dakota. **other id:** USDA 21574M. Perennial.
Breeding Material. Plant.
- PI 558941 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21585M
Montana 11. **pedigree:** Selected from the wild in Montana.
other id: USDA 21585M. Perennial. Breeding Material.
Plant.
- PI 558942 **origin:** United States. **historical origin:** United States.
origin institute: USDA-ARS Hops Research Project, East
Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21587M
Montana 13. **pedigree:** Selected from the wild in Montana.
other id: USDA 21587M. Perennial. Breeding Material.
Plant.

PI 558702 to 558945-continued

- PI 558943 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21588M Montana 14. **pedigree:** Selected from the wild in Montana. **other id:** USDA 21588M. Perennial. Breeding Material. Plant.
- PI 558944 **origin:** United States. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21589M Montana 15. **pedigree:** Selected from the wild in Montana. **other id:** USDA 21589M. Perennial. Breeding Material. Plant.
- PI 558945 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21368. **pedigree:** tetr. Atlas + (NBxSAVG-TG). **other id:** USDA 21368. Perennial. Breeding Material. Plant.

PI 558946 to 558948. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Haunold, A., USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon, United States. Received June 30, 1981.

- PI 558946 **origin:** United States. **historical origin:** Germany. **origin institute:** German Institute for Hops Research, Hull, Oregon. **cultivar:** Hueller Bitterer. **pedigree:** Northern Brewer seedling selection. **other id:** USDA 21229. **remarks:** Extremely susceptible to Prunus Necrotic Ringspot Virus. Perennial. Cultivar. Plant.
- PI 558947 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS, Oregon, Washington and Idaho, Experiment Stations, Parma, Idaho 83660. **cultivar:** Eroica v.f.. **pedigree:** Brewer's Gold, USDA 19001 x OP. **other id:** CV-8. **source:** Crop Sci. 22(6):1261 1982. **group:** CSR-HOP. **other id:** USDA 21220. **remarks:** Develops conspicuous yellow flecking on lower leaves. Perennial. Cultivar. Plant.
- PI 558948 **origin:** United States. **origin institute:** USDA-ARS Hop Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** Nugget. **pedigree:** USDA 65009 x USDA 63015M, selection 7005-194. **other id:** CV-13. **source:** Crop Sci. 24(3):618 1984. **group:** CSR-HOP. **other id:** USDA 21193. **remarks:** Considered a superalpha hop by the trade. Perennial. Cultivar. Plant.

PI 558949 to 559173. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Haunold, A., USDA/ARS Hops Research Project, Oregon State University, East Farm, Corvallis, Oregon, United States.
Received May 06, 1983.

- PI 558949 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Keyworth's Midseason. **other id:** USDA 21279.
Perennial. Cultivar. Plant.
- PI 558950 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Serebrianka. **other id:** USDA 21045. Perennial.
Cultivar. Plant.
- PI 558951 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21047. **other id:** USDA 21047. Perennial.
Breeding Material. Plant.
- PI 558952 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Sivrem. **other id:** USDA 21214. Perennial.
Cultivar. Plant.
- PI 558953 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Aromat. **other id:** USDA 21213. Perennial.
Cultivar. Plant.
- PI 558954 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 62015. **other id:** USDA 62015. Perennial.
Breeding Material. Plant.
- PI 558955 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21309. **other id:** USDA 21309. Perennial.
Breeding Material. Plant.
- PI 558956 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21302. **other id:** USDA 21302. Perennial.
Breeding Material. Plant.
- PI 558957 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21307. **other id:** USDA 21307. Perennial.
Breeding Material. Plant.
- PI 558958 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21294. **other id:** USDA 21294. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 558959 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21303. **other id:** USDA 21303. Perennial.
Breeding Material. Plant.
- PI 558960 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21304. **other id:** USDA 21304. Perennial.
Breeding Material. Plant.
- PI 558961 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21295. **other id:** USDA 21295. Perennial.
Breeding Material. Plant.
- PI 558962 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21296. **other id:** USDA 21296. Perennial.
Breeding Material. Plant.
- PI 558963 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21305. **other id:** USDA 21305. Perennial.
Breeding Material. Plant.
- PI 558964 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21298. **other id:** USDA 21298. Perennial.
Breeding Material. Plant.
- PI 558965 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21299. **other id:** USDA 21299. Perennial.
Breeding Material. Plant.
- PI 558966 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21290. **other id:** USDA 21290. Perennial.
Breeding Material. Plant.
- PI 558967 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21297. **other id:** USDA 21297. Perennial.
Breeding Material. Plant.
- PI 558968 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21293. **other id:** USDA 21293. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 558969 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21300. **other id:** USDA 21300. Perennial.
Breeding Material. Plant.
- PI 558970 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 2128. **other id:** USDA 2128. **other id:** 21287. **other id:** 8. Perennial. Breeding Material.
Plant.
- PI 558971 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21289. **other id:** USDA 21289. Perennial.
Breeding Material. Plant.
- PI 558972 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21301. **other id:** USDA 21301. Perennial.
Breeding Material. Plant.
- PI 558973 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21308. **other id:** USDA 21308. Perennial.
Breeding Material. Plant.
- PI 558974 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21291. **other id:** USDA 21291. Perennial.
Breeding Material. Plant.
- PI 558975 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21306. **other id:** USDA 21306. Perennial.
Breeding Material. Plant.
- PI 558976 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21292. **other id:** USDA 21292. Perennial.
Breeding Material. Plant.
- PI 558977 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21198. **other id:** USDA 21198. Perennial.
Breeding Material. Plant.
- PI 558978 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21195. **other id:** USDA 21195. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 558979 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21245. **other id:** USDA 21245. Perennial.
Breeding Material. Plant.
- PI 558980 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21099. **other id:** USDA 21099. Perennial.
Breeding Material. Plant.
- PI 558981 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21231. **other id:** USDA 21231. Perennial.
Breeding Material. Plant.
- PI 558982 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21384. **other id:** USDA 21384. Perennial.
Breeding Material. Plant.
- PI 558983 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21383. **other id:** USDA 21383. Perennial.
Breeding Material. Plant.
- PI 558984 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21194. **other id:** USDA 21194. Perennial.
Breeding Material. Plant.
- PI 558985 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21253. **other id:** USDA 21253. Perennial.
Breeding Material. Plant.
- PI 558986 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21252. **other id:** USDA 21252. Perennial.
Breeding Material. Plant.
- PI 558987 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21248. **other id:** USDA 21248. Perennial.
Breeding Material. Plant.
- PI 558988 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21255. **other id:** USDA 21255. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 558989 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21221. **other id:** USDA 21221. Perennial.
 Breeding Material. Plant.
- PI 558990 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21259. **other id:** USDA 21259. Perennial.
 Breeding Material. Plant.
- PI 558991 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21258. **other id:** USDA 21258. Perennial.
 Breeding Material. Plant.
- PI 558992 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21219. **other id:** USDA 21219. Perennial.
 Breeding Material. Plant.
- PI 558993 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21003-T-4. **other id:** USDA 21003-T-4 PP.
 Perennial. Breeding Material. Plant.
- PI 558994 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21385. **other id:** USDA 21385 PP.
 Perennial. Breeding Material. Plant.
- PI 558995 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21142. **other id:** USDA 21142 PP.
 Perennial. Breeding Material. Plant.
- PI 558996 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21165. **other id:** USDA 21165. Perennial.
 Breeding Material. Plant.
- PI 558997 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21387. **other id:** USDA 21387. Perennial.
 Breeding Material. Plant.
- PI 558998 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 51153. **other id:** USDA 51153 PP.
 Perennial. Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 558999 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21107. **other id:** USDA 21107 PP.
Perennial. Breeding Material. Plant.
- PI 559000 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21388. **other id:** USDA 21388 PP.
Perennial. Breeding Material. Plant.
- PI 559001 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21389. **other id:** USDA 21389 PP.
Perennial. Breeding Material. Plant.
- PI 559002 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21174. **other id:** USDA 21174 PP.
Perennial. Breeding Material. Plant.
- PI 559003 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21042. **other id:** USDA 21042 PP.
Perennial. Breeding Material. Plant.
- PI 559004 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21390. **other id:** USDA 21390. Perennial.
Breeding Material. Plant.
- PI 559005 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21100. **other id:** USDA 21100. Perennial.
Breeding Material. Plant.
- PI 559006 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21394. **other id:** USDA 21394 PP.
Perennial. Breeding Material. Plant.
- PI 559007 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21392. **other id:** USDA 21392 PP.
Perennial. Breeding Material. Plant.
- PI 559008 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21166. **other id:** USDA 21166 PP.
Perennial. Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559009 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21103. **other id:** USDA 21103 PP.
Perennial. Breeding Material. Plant.
- PI 559010 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21099. **other id:** USDA 21099 PP.
Perennial. Breeding Material. Plant.
- PI 559011 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21395. **other id:** USDA 21395 PP.
Perennial. Breeding Material. Plant.
- PI 559012 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21101. **other id:** USDA 21101 PP.
Perennial. Breeding Material. Plant.
- PI 559013 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21003. **other id:** USDA 21003 PP.
Perennial. Breeding Material. Plant.
- PI 559014 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21386. **other id:** USDA 21386 PP.
Perennial. Breeding Material. Plant.
- PI 559015 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21098. **other id:** USDA 21098 PP.
Perennial. Breeding Material. Plant.
- PI 559016 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21391. **other id:** USDA 21391 PP.
Perennial. Breeding Material. Plant.
- PI 559017 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21393. **other id:** USDA 21393 PP.
Perennial. Breeding Material. Plant.
- PI 559018 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21181. **other id:** USDA 21181. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559019 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21152. **other id:** USDA 21152. Perennial.
Breeding Material. Plant.
- PI 559020 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21159. **other id:** USDA 21159. Perennial.
Breeding Material. Plant.
- PI 559021 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21149. **other id:** USDA 21149. Perennial.
Breeding Material. Plant.
- PI 559022 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21212. **other id:** USDA 21212. Perennial.
Breeding Material. Plant.
- PI 559023 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21162. **other id:** USDA 21162. Perennial.
Breeding Material. Plant.
- PI 559024 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21145. **other id:** USDA 21145. Perennial.
Breeding Material. Plant.
- PI 559025 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21144. **other id:** USDA 21144. Perennial.
Breeding Material. Plant.
- PI 559026 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 63021. **other id:** USDA 63021. Perennial.
Breeding Material. Plant.
- PI 559027 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 63018. **other id:** USDA 63018. Perennial.
Breeding Material. Plant.
- PI 559028 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 63020. **other id:** USDA 63020. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559029 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 63019. **other id:** USDA 63019. Perennial.
Breeding Material. Plant.
- PI 559030 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21156. **other id:** USDA 21156. Perennial.
Breeding Material. Plant.
- PI 559031 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21023. **other id:** USDA 21023. Perennial.
Breeding Material. Plant.
- PI 559032 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21151. **other id:** USDA 21151. Perennial.
Breeding Material. Plant.
- PI 559033 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 63027. **other id:** USDA 63027. Perennial.
Breeding Material. Plant.
- PI 559034 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21180. **other id:** USDA 21180. Perennial.
Breeding Material. Plant.
- PI 559035 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21161. **other id:** USDA 21161. Perennial.
Breeding Material. Plant.
- PI 559036 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21030. **other id:** USDA 21030. Perennial.
Breeding Material. Plant.
- PI 559037 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 63008. **other id:** USDA 63008. Perennial.
Breeding Material. Plant.
- PI 559038 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21160. **other id:** USDA 21160. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559039 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21158. **other id:** USDA 21158. Perennial.
Breeding Material. Plant.
- PI 559040 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21139. **other id:** USDA 21139. Perennial.
Breeding Material. Plant.
- PI 559041 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21164. **other id:** USDA 21164. Perennial.
Breeding Material. Plant.
- PI 559042 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21163. **other id:** USDA 21163. Perennial.
Breeding Material. Plant.
- PI 559043 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21008. **other id:** USDA 21008. Perennial.
Breeding Material. Plant.
- PI 559044 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21007. **other id:** USDA 21007. Perennial.
Breeding Material. Plant.
- PI 559045 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21094. **other id:** USDA 21094. Perennial.
Breeding Material. Plant.
- PI 559046 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21138. **other id:** USDA 21138. Perennial.
Breeding Material. Plant.
- PI 559047 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21211. **other id:** USDA 21211. Perennial.
Breeding Material. Plant.
- PI 559048 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21232. **other id:** USDA 21232. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559049 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21244. **other id:** USDA 21244. Perennial.
Breeding Material. Plant.
- PI 559050 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21204. **other id:** USDA 21204. Perennial.
Breeding Material. Plant.
- PI 559051 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21208. **other id:** USDA 21208. Perennial.
Breeding Material. Plant.
- PI 559052 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21243. **other id:** USDA 21243. Perennial.
Breeding Material. Plant.
- PI 559053 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21210. **other id:** USDA 21210. Perennial.
Breeding Material. Plant.
- PI 559054 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21205. **other id:** USDA 21205. Perennial.
Breeding Material. Plant.
- PI 559055 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21207. **other id:** USDA 21207. Perennial.
Breeding Material. Plant.
- PI 559056 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21242. **other id:** USDA 21242. Perennial.
Breeding Material. Plant.
- PI 559057 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21241. **other id:** USDA 21241. Perennial.
Breeding Material. Plant.
- PI 559058 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21201. **other id:** USDA 21201. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559059 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21233. **other id:** USDA 21233. Perennial.
Breeding Material. Plant.
- PI 559060 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21206. **other id:** USDA 21206. Perennial.
Breeding Material. Plant.
- PI 559061 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21209. **other id:** USDA 21209. Perennial.
Breeding Material. Plant.
- PI 559062 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21123. **other id:** USDA 21123. Perennial.
Breeding Material. Plant.
- PI 559063 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21125. **other id:** USDA 21125. Perennial.
Breeding Material. Plant.
- PI 559064 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21126. **other id:** USDA 21126. Perennial.
Breeding Material. Plant.
- PI 559065 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21203. **other id:** USDA 21203. Perennial.
Breeding Material. Plant.
- PI 559066 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21054. **other id:** USDA 21054. Perennial.
Breeding Material. Plant.
- PI 559067 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21373. **other id:** USDA 21373. Perennial.
Breeding Material. Plant.
- PI 559068 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21124. **other id:** USDA 21124. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559069 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21121. **other id:** USDA 21121. Perennial.
Breeding Material. Plant.
- PI 559070 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21127. **other id:** USDA 21127. Perennial.
Breeding Material. Plant.
- PI 559071 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21372. **other id:** USDA 21372. Perennial.
Breeding Material. Plant.
- PI 559072 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21128. **other id:** USDA 21128. Perennial.
Breeding Material. Plant.
- PI 559073 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21371. **other id:** USDA 21371. Perennial.
Breeding Material. Plant.
- PI 559074 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 51060. **other id:** USDA 51060. Perennial.
Breeding Material. Plant.
- PI 559075 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 63016. **other id:** USDA 63016. Perennial.
Breeding Material. Plant.
- PI 559076 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21268. **other id:** USDA 21268. Perennial.
Breeding Material. Plant.
- PI 559077 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21134. **other id:** USDA 21134. Perennial.
Breeding Material. Plant.
- PI 559078 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21266. **other id:** USDA 21266. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559079 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21374. **other id:** USDA 21374. Perennial. Breeding Material. Plant.
- PI 559080 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21328. **other id:** USDA 21328. Perennial. Breeding Material. Plant.
- PI 559081 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21329. **other id:** USDA 21329. Perennial. Breeding Material. Plant.
- PI 559082 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21333. **other id:** USDA 21333. Perennial. Breeding Material. Plant.
- PI 559083 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21332. **other id:** USDA 21332. Perennial. Breeding Material. Plant.
- PI 559084 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21269. **other id:** USDA 21269. Perennial. Breeding Material. Plant.
- PI 559085 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21327. **other id:** USDA 21327. Perennial. Breeding Material. Plant.
- PI 559086 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21334. **other id:** USDA 21334. Perennial. Breeding Material. Plant.
- PI 559087 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21330. **other id:** USDA 21330. Perennial. Breeding Material. Plant.
- PI 559088 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21331. **other id:** USDA 21331. Perennial. Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559089 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 63014. **other id:** USDA 63014. Perennial.
Breeding Material. Plant.
- PI 559090 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 51061. **other id:** USDA 51061. Perennial.
Breeding Material. Plant.
- PI 559091 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21271. **other id:** USDA 21271. Perennial.
Breeding Material. Plant.
- PI 559092 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21265. **other id:** USDA 21265. Perennial.
Breeding Material. Plant.
- PI 559093 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21267. **other id:** USDA 21267. Perennial.
Breeding Material. Plant.
- PI 559094 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21335. **other id:** USDA 21335. Perennial.
Breeding Material. Plant.
- PI 559095 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21270. **other id:** USDA 21270. Perennial.
Breeding Material. Plant.
- PI 559096 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21326. **other id:** USDA 21326. Perennial.
Breeding Material. Plant.
- PI 559097 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21076. **other id:** USDA 21076. Perennial.
Breeding Material. Plant.
- PI 559098 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21129. **other id:** USDA 21129. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559099 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 64105. **other id:** USDA 64105. Perennial.
Breeding Material. Plant.
- PI 559100 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21058. **other id:** USDA 21058. Perennial.
Breeding Material. Plant.
- PI 559101 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21132. **other id:** USDA 21132. Perennial.
Breeding Material. Plant.
- PI 559102 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21064. **other id:** USDA 21064. Perennial.
Breeding Material. Plant.
- PI 559103 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21119. **other id:** USDA 21119. Perennial.
Breeding Material. Plant.
- PI 559104 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21133. **other id:** USDA 21133. Perennial.
Breeding Material. Plant.
- PI 559105 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21065. **other id:** USDA 21065. Perennial.
Breeding Material. Plant.
- PI 559106 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 65034. **other id:** USDA 65034. Perennial.
Breeding Material. Plant.
- PI 559107 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21131. **other id:** USDA 21131. Perennial.
Breeding Material. Plant.
- PI 559108 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 64104. **other id:** USDA 64104. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559109 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 64031. **other id:** USDA 64031. Perennial.
Breeding Material. Plant.
- PI 559110 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21141. **other id:** USDA 21141. Perennial.
Breeding Material. Plant.
- PI 559111 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21137. **other id:** USDA 21137. Perennial.
Breeding Material. Plant.
- PI 559112 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21378. **other id:** USDA 21378. Perennial.
Breeding Material. Plant.
- PI 559113 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21136. **other id:** USDA 21136. Perennial.
Breeding Material. Plant.
- PI 559114 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21135. **other id:** USDA 21135. Perennial.
Breeding Material. Plant.
- PI 559115 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21067. **other id:** USDA 21067. Perennial.
Breeding Material. Plant.
- PI 559116 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21375. **other id:** USDA 21375. Perennial.
Breeding Material. Plant.
- PI 559117 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21071. **other id:** USDA 21071. Perennial.
Breeding Material. Plant.
- PI 559118 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21377. **other id:** USDA 21377. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559119 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21069. **other id:** USDA 21069. Perennial.
 Breeding Material. Plant.
- PI 559120 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21234. **other id:** USDA 21234. Perennial.
 Breeding Material. Plant.
- PI 559121 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21325. **other id:** USDA 21325. Perennial.
 Breeding Material. Plant.
- PI 559122 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21323. **other id:** USDA 21323. Perennial.
 Breeding Material. Plant.
- PI 559123 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21318. **other id:** USDA 21318. Perennial.
 Breeding Material. Plant.
- PI 559124 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21317. **other id:** USDA 21317. Perennial.
 Breeding Material. Plant.
- PI 559125 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21262. **other id:** USDA 21262. Perennial.
 Breeding Material. Plant.
- PI 559126 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 19044. **other id:** USDA 19044. Perennial.
 Breeding Material. Plant.
- PI 559127 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21319. **other id:** USDA 21319. Perennial.
 Breeding Material. Plant.
- PI 559128 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
 cultivar: USDA 21264. **other id:** USDA 21264. Perennial.
 Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559129 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21321. **other id:** USDA 21321. Perennial.
Breeding Material. Plant.
- PI 559130 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21018. **other id:** USDA 21018. Perennial.
Breeding Material. Plant.
- PI 559131 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21324. **other id:** USDA 21324. Perennial.
Breeding Material. Plant.
- PI 559132 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 31314. **other id:** USDA 31314. Perennial.
Breeding Material. Plant.
- PI 559133 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21315. **other id:** USDA 21315. Perennial.
Breeding Material. Plant.
- PI 559134 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21320. **other id:** USDA 21320. Perennial.
Breeding Material. Plant.
- PI 559135 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21322. **other id:** USDA 21322. Perennial.
Breeding Material. Plant.
- PI 559136 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21316. **other id:** USDA 21316. Perennial.
Breeding Material. Plant.
- PI 559137 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21263. **other id:** USDA 21263. Perennial.
Breeding Material. Plant.
- PI 559138 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21338. **other id:** USDA 21338. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559139 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21358. **other id:** USDA 21358. Perennial.
Breeding Material. Plant.
- PI 559140 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21341. **other id:** USDA 21341. Perennial.
Breeding Material. Plant.
- PI 559141 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21339. **other id:** USDA 21339. Perennial.
Breeding Material. Plant.
- PI 559142 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21346. **other id:** USDA 21346. Perennial.
Breeding Material. Plant.
- PI 559143 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21352. **other id:** USDA 21352. Perennial.
Breeding Material. Plant.
- PI 559144 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21359. **other id:** USDA 21359. Perennial.
Breeding Material. Plant.
- PI 559145 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21351. **other id:** USDA 21351. Perennial.
Breeding Material. Plant.
- PI 559146 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21275. **other id:** USDA 21275. Perennial.
Breeding Material. Plant.
- PI 559147 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21379. **other id:** USDA 21379. Perennial.
Breeding Material. Plant.
- PI 559148 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21362. **other id:** USDA 21362. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559149 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21363. **other id:** USDA 21363. Perennial.
Breeding Material. Plant.
- PI 559150 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21350. **other id:** USDA 21350. Perennial.
Breeding Material. Plant.
- PI 559151 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21353. **other id:** USDA 21353. Perennial.
Breeding Material. Plant.
- PI 559152 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21355. **other id:** USDA 21355. Perennial.
Breeding Material. Plant.
- PI 559153 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21357. **other id:** USDA 21357. Perennial.
Breeding Material. Plant.
- PI 559154 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21272. **other id:** USDA 21272. Perennial.
Breeding Material. Plant.
- PI 559155 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21340. **other id:** USDA 21340. Perennial.
Breeding Material. Plant.
- PI 559156 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21348. **other id:** USDA 21348. Perennial.
Breeding Material. Plant.
- PI 559157 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21349. **other id:** USDA 21349. Perennial.
Breeding Material. Plant.
- PI 559158 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21344. **other id:** USDA 21344. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559159 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21347. **other id:** USDA 21347. Perennial.
Breeding Material. Plant.
- PI 559160 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21381. **other id:** USDA 21381. Perennial.
Breeding Material. Plant.
- PI 559161 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21361. **other id:** USDA 21361. Perennial.
Breeding Material. Plant.
- PI 559162 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21337. **other id:** USDA 21337. Perennial.
Breeding Material. Plant.
- PI 559163 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21336. **other id:** USDA 21336. Perennial.
Breeding Material. Plant.
- PI 559164 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21354. **other id:** USDA 21354. Perennial.
Breeding Material. Plant.
- PI 559165 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21360. **other id:** USDA 21360. Perennial.
Breeding Material. Plant.
- PI 559166 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21273. **other id:** USDA 21273. Perennial.
Breeding Material. Plant.
- PI 559167 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21342. **other id:** USDA 21342. Perennial.
Breeding Material. Plant.
- PI 559168 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21343. **other id:** USDA 21343. Perennial.
Breeding Material. Plant.

PI 558949 to 559173-continued

- PI 559169 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21380. **other id:** USDA 21380. Perennial.
Breeding Material. Plant.
- PI 559170 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21274. **other id:** USDA 21274. Perennial.
Breeding Material. Plant.
- PI 559171 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21345. **other id:** USDA 21345. Perennial.
Breeding Material. Plant.
- PI 559172 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21364. **other id:** USDA 21364. Perennial.
Breeding Material. Plant.
- PI 559173 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon.
cultivar: USDA 21356. **other id:** USDA 21356. Perennial.
Breeding Material. Plant.

PI 559174 to 559192. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Haunold, A., USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon, United States. Received May 06, 1983.

- PI 559174 **origin:** United States. **historical origin:** Yugoslavia.
origin institute: Hop Research Institute, Zalec, Slovenia, Oregon. **cultivar:** Aurora. **pedigree:** Northern Brewer (64107) x Yugoslavian wild male TG. **other id:** USDA 21053. Perennial. Cultivar. Plant.
- PI 559175 **origin:** United States. **historical origin:** Yugoslavia.
origin institute: Hop Research Institute, Zalec, Slovenia, Oregon. **cultivar:** Apollo. **pedigree:** Brewer's Gold (19001) x Yugoslavian wild male 3/3 (21087M). **other id:** USDA 21051. Perennial. Cultivar. Plant.
- PI 559176 **origin:** United States. **historical origin:** United Kingdom. **origin institute:** Wye College, Wye, England.
cultivar: Northern Brewer. **pedigree:** Canterbury Golding x Brewer's Gold-OY1. **other id:** USDA 64107. Perennial. Cultivar. Plant.
- PI 559177 **origin:** United States. **historical origin:** UNCERTAIN.
cultivar: Blisk. **other id:** USDA 21238. Perennial. Cultivar. Plant.

PI 559174 to 559192-continued

- PI 559178 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Pride of Ringwood. **other id:** USDA 66052. **Perennial.** **Cultivar.** **Plant.**
- PI 559179 **origin:** United States. **historical origin:** UNCERTAIN. **cultivar:** Aquila. **other id:** USDA 21222. **Perennial.** **Cultivar.** **Plant.**
- PI 559180 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21189M. **pedigree:** [[Unknown x (Fuggle x Early Green-Early Cluster)] x OP] x OP. **other id:** CV-9. **source:** Crop Sci. 22(6):1262 1982. **group:** CSR-HOP. **other id:** USDA 21189M. **remarks:** Used as yield stimulator in commercial Oregon hop yards since 1982. **Perennial.** **Breeding Material.** **Plant.**
- PI 559181 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21104M. **pedigree:** 4x Fuggle x Fuggle seedling. **other id:** GP-7. **source:** Crop Sci. 19(5):753 1979. **group:** CSR-HOP. **other id:** USDA 21104M. **remarks:** 3n, good pollen producer, suitable for stimulation of late- flowering 2n females to produce higher yields w/o seed set. **Perennial.** **Breeding Material.** **Plant.**
- PI 559182 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21106M. **pedigree:** 4x Fuggle x Early Green-Bavarian seedling. **other id:** GP-9. **source:** Crop Sci. 19(5):753 1979. **group:** CSR-HOP. **other id:** USDA 21106M. **remarks:** 3n, exc. pollen producer, suitable for stimulation of late- flowering 2n females to produce higher yields w/o seed set. **Perennial.** **Breeding Material.** **Plant.**
- PI 559183 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21102M. **pedigree:** 4x Fuggle x (Fuggle - Fuggle seedling) 21003 x 19040M. **other id:** GP-6. **source:** Crop Sci. 19(5):753 1979. **group:** CSR-HOP. **other id:** USDA 21102M. **remarks:** 3n, nearly sterile, very good pollen producer, suitable for stimulation of 2n females to produce higher cone yields. **Perennial.** **Breeding Material.** **Plant.**

PI 559174 to 559192-continued

- PI 559184 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21175M. **pedigree:** [(XS x (Fuggle x Early Green-Early Clust. sdlg) x OP] x OP. **other id:** GP-10. **source:** Crop Sci. 19(5):753 1979. **group:** CSR-HOP. **other id:** USDA 21175M. **remarks:** 3n, excellent pollen producer, suitable for stimulation of 2n females to produce higher cone yields without seeds. Perennial. Breeding Material. Plant.
- PI 559185 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21176M. **pedigree:** [Unknown sdlg. x (Fuggle x Ea Green-Ea Cluster) x OP] x OP. **other id:** GP-11. **source:** Crop Sci. 19(5):753 1979. **group:** CSR-HOP. **other id:** USDA 21176M. **remarks:** 3n, excellent pollen producer, suitable for stimulation of 2n females to produce higher cone yields without seeds. Perennial. Breeding Material. Plant.
- PI 559186 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21178M. **pedigree:** [Unknown sdlg. x (Fuggle x Ea Green-Ea Cluster) x OP] x OP. **other id:** GP-13. **source:** Crop Sci. 19(5):753 1979. **group:** CSR-HOP. **other id:** USDA 21178M. **remarks:** 3n, very good pollen producer, suitable for stimulation of early females to produce higher yields without seeds. Perennial. Breeding Material. Plant.
- PI 559187 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21177M. **pedigree:** [Unknown sdlg. x (Fuggle x Ea Green-Ea Cluster) x OP] x OP. **other id:** GP-12. **source:** Crop Sci. 19(5):753 1979. **group:** CSR-HOP. **other id:** USDA 21177M. **remarks:** 3n, excellent pollen producer, suitable for stimulation of early-med. early females to produce higher yields w/o seeds. Perennial. Breeding Material. Plant.
- PI 559188 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21192M. **pedigree:** [[Unknown x (Fuggle x Early Green-Early Cluster)] x OP] x OP. **other id:** USDA 21192M. **remarks:** Triploid, excellent pollen producer, suitable for stimulation of diploid females to produce higher yield. Perennial. Breeding Material. Plant.

PI 559174 to 559192-continued

PI 559189 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21191M. **pedigree:** [[Unknown x (Fuggle x Early Green-Early Cluster)] x OP] x OP. **other id:** CV-11. **source:** Crop Sci. 22(6):1262 1982. **group:** CSR-HOP. **other id:** CV-12. **source:** Crop Sci. 22(6):1262 1982. **group:** CSR-HOP. **other id:** USDA 21191M. **remarks:** Triploid, excellent pollen producer, suitable for stimulation of diploid females to produce higher yield. Perennial. Breeding Material. Plant.

PI 559190 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21190M. **pedigree:** [[Unknown x (Fuggle x Early Green-Early Cluster)] x OP] x OP. **other id:** CV-10. **source:** Crop Sci. 22(6):1262 1982. **group:** CSR-HOP. **other id:** USDA 21190M. **remarks:** Triploid, excellent pollen producer, suitable for stimulation of diploid females to produce higher yield. Perennial. Breeding Material. Plant.

PI 559191 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon 97333. **cultivar:** USDA 21105M. **pedigree:** 4x Fuggle x Red Vine-Fuggle-Fuggle seedling. **other id:** GP-8. **source:** Crop Sci. 19(5):753 1979. **group:** CSR-HOP. **other id:** USDA 21105M. **remarks:** Triploid, excellent pollen producer, suitable for stimulation of diploid females to produce higher yield. Perennial. Breeding Material. Plant.

PI 559192 **origin:** United States. **historical origin:** United States. **origin institute:** USDA/ARS, Hops Research Project, Corvallis, Oregon 97331. **cultivar:** USDA 60014. **pedigree:** Selected from the wild in Arizona. **collected:** 1960. **other id:** USDA 60014 Arizona 1-3. **locality:** Big Springs, Kaibab Nat'l Forest. **elevation:** 2400m. **remarks:** Susceptible to Downy Mildew, pungent Wild American odor This accession is currently maintained at Prosser, WA. Perennial. Breeding Material. Plant.

PI 559193 to 559196. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Haunold, A., USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon, United States. Received May 25, 1983.

PI 559193 to 559196-continued

- PI 559193 **origin:** South Africa. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21235M. **pedigree:** Hallertauer mittelfruh x OP. **other id:** USDA 21235M PH2/46. **remarks:** Very late pollen shedding, very low cohumulone content, downy mildew tolerant. Perennial. Breeding Material. Plant.
- PI 559194 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21376M. **pedigree:** Cascade x Early Green-OP. **other id:** USDA 21376M Selection 7504-104. **remarks:** Early maturity, low cohumulone content, low humulene in the oil, low alpha, high beta acids. Perennial. Breeding Material. Plant.
- PI 559195 **origin:** South Africa. **historical origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21237M. **pedigree:** Saazer x OP. **other id:** USDA 21237M PS1/10. **remarks:** Poorly adapted to growing conditions in Western Oregon, pollen sheds in late July, low humulene content. Perennial. Breeding Material. Plant.
- PI 559196 **origin:** United States. **origin institute:** USDA-ARS Hops Research Project, East Farm, Corvallis, Oregon 97331. **cultivar:** USDA 21313M. **pedigree:** Comet x [(Brewer's Gold x Early Green-OP) x (64035M)]. **other id:** USDA 21313M Selection Number 7. **remarks:** Low cohumulone, good storage stability, early maturity May have inherited PNR virus resistance from Comet. Perennial. Breeding Material. Plant.

PI 559197 to 559212. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon, United States. Received December 06, 1983.

- PI 559197 **origin:** United States. **pedigree:** Collected from the wild in Nebraska. **collected:** December 01, 1983. **locality:** Brownville, near Missouri R. in mixed shrubs and hardwood. **latitude:** 40 deg. 20 min. N. **longitude:** 95 deg. 45 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

- PI 559198 **origin:** United States. **pedigree:** Collected from the wild in Nebraska. **collected:** December 01, 1983. **locality:** Brownville, near Missouri River in mixed shrubs and hardwood. **latitude:** 40 deg. 20 min. N. **longitude:** 95 deg. 45 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559199 **origin:** United States. **pedigree:** Collected from the wild in Nebraska. **collected:** December 01, 1983. **locality:** Brownville, near Missouri River in mixed shrubs and hardwood. **latitude:** 40 deg. 20 min. N. **longitude:** 95 deg. 45 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559200 **origin:** United States. **pedigree:** Collected from the wild in Missouri. **collected:** December 01, 1983. **locality:** Along gravel road near Missouri River across from Rulo, NB. **latitude:** 40 deg. 01 min. N. **longitude:** 95 deg. 30 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559201 **origin:** United States. **pedigree:** Collected from the wild in Missouri. **collected:** December 01, 1983. **locality:** Along gravel road near Missouri River across from Rulo, NB. **latitude:** 40 deg. 01 min. N. **longitude:** 95 deg. 30 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559202 **origin:** United States. **pedigree:** Collected from the wild in Missouri. **collected:** December 01, 1983. **locality:** Craig, in finger terraces along the Missouri River. **latitude:** 40 deg. 10 min. N. **longitude:** 95 deg. 30 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559203 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacles. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559204 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacle. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

- PI 559205 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacle. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559206 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacle. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559207 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along Souris River, associated with trees. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559208 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along Souris River, associated with trees. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559209 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along railroad tracks. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559210 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** December 01, 1983. **locality:** Just above the flood plain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559211 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** December 01, 1983. **locality:** Just above the flood plain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559197 to 559212-continued

PI 559212 **origin:** United States. **historical origin:** South Africa.
origin institute: South African Brewing Co. Ltd., Blanco,
Dist. George, Oregon. **cultivar:** Southern Brewer.
pedigree: Fuggle N x OP backcross. **other id:** USDA 21187.
remarks: Major hop cultivar in South Africa and India.
Perennial. Cultivar. Plant.

PI 559213 to 559242. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and
Plant Path., Corvallis, Oregon, United States. Received March 06,
1986.

PI 559213 **origin:** United States. **pedigree:** Collected from the wild
in Nebraska. **collected:** December 01, 1983. **locality:**
Brownville, near Missouri River in mixed shrubs and
hardwood. **latitude:** 40 deg. 20 min. N. **longitude:** 95
deg. 45 min. W. **remarks:** Native North American *Humulus*
lupulus. Perennial. Wild. Plant.

PI 559214 **origin:** United States. **pedigree:** Collected from the wild
in Nebraska. **collected:** December 01, 1983. **locality:**
Brownville, near Missouri River in mixed shrubs and
hardwood. **latitude:** 40 deg. 20 min. N. **longitude:** 95
deg. 45 min. W. **remarks:** Native North American *Humulus*
lupulus. Perennial. Wild. Plant.

PI 559215 **origin:** United States. **pedigree:** Collected from the wild
in Nebraska. **collected:** December 01, 1983. **locality:**
Brownville, near Missouri River in mixed shrubs and
hardwood. **latitude:** 40 deg. 20 min. N. **longitude:** 95
deg. 45 min. W. **remarks:** Native North American *Humulus*
lupulus. Perennial. Wild. Plant.

PI 559216 **origin:** United States. **pedigree:** Collected from the wild
in Nebraska. **collected:** December 01, 1983. **locality:**
Brownville, near Missouri River in mixed shrubs and
hardwood. **latitude:** 40 deg. 20 min. N. **longitude:** 95
deg. 45 min. W. **remarks:** Native North American *Humulus*
lupulus. Perennial. Wild. Plant.

PI 559217 **origin:** United States. **pedigree:** Collected from the wild
in Nebraska. **collected:** December 01, 1983. **locality:**
Brownville, near Missouri River in mixed shrubs and
hardwood. **latitude:** 40 deg. 20 min. N. **longitude:** 95
deg. 45 min. W. **remarks:** Native North American *Humulus*
lupulus. Perennial. Wild. Plant.

PI 559213 to 559242-continued

- PI 559218 **origin:** United States. **pedigree:** Collected from the wild in Missouri. **collected:** December 01, 1983. **locality:** Along gravel road near Missouri River across from Rulo, NB. **latitude:** 40 deg. 01 min. N. **longitude:** 95 deg. 30 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559219 **origin:** United States. **pedigree:** Collected from the wild in Missouri. **collected:** December 01, 1983. **locality:** Craig, in finger terraces along the Missouri River. **latitude:** 40 deg. 10 min. N. **longitude:** 95 deg. 30 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559220 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacle. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559221 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacle. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559222 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacle. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559223 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacle. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559224 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along Souris River, associated with trees. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559213 to 559242-continued

- PI 559225 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along Souris River, associated with trees. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559226 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along Souris River, associated with trees. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559227 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along Souris River, associated with trees. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559228 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** December 01, 1983. **locality:** Just above the flood plain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559229 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** December 01, 1983. **locality:** Just above the flood plain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559230 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** December 01, 1983. **locality:** Just above the flood plain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559231 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** December 01, 1983. **locality:** Just above the flood plain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559213 to 559242-continued

PI 559232 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559233 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559234 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559235 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559236 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559237 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559238 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559239 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559213 to 559242-continued

- PI 559240 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559241 **origin:** United States. **pedigree:** Collected from the wild in Utah. **collected:** 1982. **locality:** Along both sides of the river in Logan Canyon. **latitude:** 41 deg. 48 min. N. **longitude:** 111 deg. 50 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559242 **origin:** United States. **pedigree:** Collected from the wild in Utah. **collected:** 1982. **locality:** Along both sides of the river in Logan Canyon. **latitude:** 41 deg. 48 min. N. **longitude:** 111 deg. 50 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559243 to 559253. Humulus lupulus L. CANNABACEAE Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon, United States. Received July 23, 1984.

- PI 559243 **origin:** United States. **pedigree:** Collected from the wild in Missouri. **collected:** December 01, 1983. **locality:** Craig, in finger terraces along the Missouri River. **latitude:** 40 deg. 10 min. N. **longitude:** 95 deg. 30 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559244 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacle. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559245 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **collected:** December 01, 1983. **locality:** Millville, N. side of Turkey River, near limestone pinnacle. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559246 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along Souris River, associated with trees. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559243 to 559253-continued

- PI 559247 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along Souris River, associated with trees. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559248 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along railroad tracks. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559249 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along railroad tracks. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559250 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** December 01, 1983. **locality:** Just above the flood plain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559251 **origin:** United States. **pedigree:** Collected from the wild in Missouri. **collected:** December 01, 1983. **locality:** Craig, in finger terraces along the Missouri River. **latitude:** 40 deg. 10 min. N. **longitude:** 95 deg. 30 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559252 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **collected:** December 01, 1983. **locality:** Minot, along Souris River, associated with trees. **latitude:** 48 deg. 15 min. N. **longitude:** 101 deg. 15 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.
- PI 559253 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** December 01, 1983. **locality:** Just above the flood plain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American Humulus lupulus. Perennial. Wild. Plant.

PI 559254. *Humulus lupulus* L. CANNABACEAE Hops

Received December 06, 1983.

origin: United States. **cultivar:** Record. **other id:** USDA 21078. Perennial. Cultivar. Plant.

PI 559255 to 559258. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon, United States. Received August 24, 1984.

PI 559255 **origin:** United States. **pedigree:** Collected from the wild in Iowa. **locality:** Millville, Iowa, 1 mi E-SE of Minot, ND, S. bank of Souris. **latitude:** 42 deg. 45 min. N. **longitude:** 91 deg. 10 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559256 **origin:** United States. **pedigree:** Collected from the wild in Montana. **locality:** Belt Creek, 2.4 mi N of Belt, Montana, near Ewing Road. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559257 **origin:** United States. **pedigree:** Collected from the wild in Montana. **locality:** Belt Creek, 2.4 mi N of Belt, Montana, near Ewing Road. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559258 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **locality:** Minot, along North side of the Souris River. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559259. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon, United States. Received October 11, 1984.

origin: United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559260 to 559261. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon, United States. Received March 08, 1986.

PI 559260 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1983. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559261 **origin:** United States. **pedigree:** Collected from the wild in New Mexico. **collected:** 1982. **locality:** Pena Blanco, NM. **latitude:** 34 deg. 30 min. N. **longitude:** 106 deg. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559262 to 559263. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon, United States. Received December 16, 1986.

PI 559262 **origin:** United States. **pedigree:** Collected from the wild in Utah. **collected:** December 01, 1983. **locality:** Along both sides of river up Logan Canyon. **latitude:** 41 deg. 48 min. N. **longitude:** 111 deg. 50 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559263 **origin:** United States. **pedigree:** Collected from the wild in Utah. **collected:** December 01, 1983. **locality:** Along both sides of river up Logan Canyon. **latitude:** 41 deg. 48 min. N. **longitude:** 111 deg. 50 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559264 to 559269. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon, United States. Received August 21, 1987.

PI 559264 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.

PI 559264 to 559269-continued

- PI 559265 **origin:** United States. **pedigree:** Collected from the wild in Montana. **collected:** 1981. **locality:** Just above the floodplain of Belt Creek. **latitude:** 47 deg. 25 min. N. **longitude:** 110 deg. 55 min. W. **remarks:** Native North American *Humulus lupulus*. Perennial. Wild. Plant.
- PI 559266 **origin:** United Kingdom. **origin institute:** Wye College, England. **cultivar:** 27/57/264. **pedigree:** Seedling selection. **remarks:** This clone was selected for verticillium resistance. Perennial. Genetic Material. Plant.
- PI 559267 **origin:** United Kingdom. **origin institute:** Wye college, England. **cultivar:** Int. 30. **pedigree:** Seedling selection. **remarks:** This clone was selected for Verticillium resistance. Perennial. Genetic Material. Plant.
- PI 559268 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **locality:** Minot, along the south side of the Souris River. **remarks:** Definitely associated with trees in this locale. Perennial. Wild. Plant.
- PI 559269 **origin:** United States. **pedigree:** Collected from the wild in North Dakota. **locality:** Minot, North side of the Souris River, on private property. Perennial. Wild. Plant.

PI 559270 to 559275. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Hampton, R.O., Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon, United States. Received May 06, 1988.

- PI 559270 **origin:** United States. **historical origin:** United States. **origin institute:** Oregon State University, Dept. Botany and Plant Pathology, Corvallis, Oregon 97331. **cultivar:** Tug Fork selection. **pedigree:** Open pollinated seed from plants collected wild. **collected:** July 27, 1987. **locality:** Along the Tug Fork River in Eastern Kentucky. Perennial. Breeding Material. Seed.
- PI 559271 **origin:** United States. **historical origin:** United States. **origin institute:** Oregon State University, Dept. Botany and Plant Pathology, Corvallis, Oregon 97331. **cultivar:** Tug Fork No. 3. **pedigree:** Open pollinated seed from plants collected wild. **collected:** July 27, 1987. **locality:** Along the Tug Fork River in eastern Kentucky. Perennial. Breeding Material. Seed.

PI 559270 to 559275-continued

- PI 559272 **origin:** United States. **historical origin:** United States.
origin institute: Oregon State University, Dept. Botany
and Plant Pathology, Corvallis, Oregon 97331. **cultivar:**
Tug Fork No. 8. **pedigree:** Open pollinated seed from
plants collected wild. **collected:** July 27, 1987.
locality: Along the Tug Fork River in eastern Kentucky.
Perennial. Breeding Material. Seed.
- PI 559273 **origin:** United States. **historical origin:** United States.
origin institute: Oregon State University, Dept. Botany
and Plant Pathology, Corvallis, Oregon 97331. **cultivar:**
Tug Fork No. 9. **pedigree:** Open pollinated seed from
plants collected wild. **collected:** July 27, 1987.
locality: Along the Tug Fork River in eastern Kentucky.
Perennial. Breeding Material. Seed.
- PI 559274 **origin:** United States. **historical origin:** United States.
origin institute: Oregon State University, Dept. Botany
and Plant Pathology, Corvallis, Oregon 97331. **cultivar:**
Tug Fork No. 11. **pedigree:** Open pollinated seed from
plants collected wild. **collected:** July 27, 1987.
locality: Along the Tug Fork River in eastern Kentucky.
Perennial. Breeding Material. Seed.
- PI 559275 **origin:** United States. **historical origin:** United States.
origin institute: Oregon State University, Dept. Botany
and Plant Pathology, Corvallis, Oregon 97331. **cultivar:**
Tug Fork No. 12. **pedigree:** Open pollinated seed from
plants collected wild. **collected:** July 27, 1987.
locality: Along the Tug Fork River in eastern Kentucky.
Perennial. Breeding Material. Seed.

PI 559276. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Haunold, A., USDA/ARS Hops Research Project, East Farm,
Corvallis, Oregon, United States. Received 1986.

origin: United States. **historical origin:** United States.
origin institute: University of Idaho, Research and
Extension Center, Parma, Idaho 83660. **cultivar:** Pocket
Talisman. **pedigree:** Apparent somatic mutation of
Talisman. **other id:** CV-4. **source:** Crop Sci. 16(2):310
1976. **group:** CSR-HOP. **other id:** Talisman T-1. **other
id:** USDA 21115. **remarks:** Plant has a high population of
flowering laterals bearing small, compact cones. Aroma
and resin same as Talisman. Perennial. Cultivar.
Plant.

PI 559277 to 559280. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Haunold, A., USDA/ARS Hops Research Project, East Farm, Corvallis, Oregon, United States. Received October 24, 1991.

PI 559277 **origin:** United States. **origin institute:** USDA/ARS Hops Research Project, Oregon State University, Corvallis, Oregon. **cultivar:** USDA 21110M. **pedigree:** 64100 x 64035M, Bullion x Zattler Sdlg, sel. No. 7007-18M. **other id:** USDA 21110M. **remarks:** Diploid, early flowering, excellent pollen producer, for breeding Euro-type aroma hops with higher a-acids content. Perennial. Breeding Material. Plant.

PI 559278 **origin:** United States. **historical origin:** United Kingdom. **cultivar:** Fuggle. **other id:** USDA 19209M. **remarks:** Grown commercially in Oregon since the turn of the century Mother of USDA 21003, the tetraploid Fuggle. Perennial. Cultivar. Plant.

PI 559279 **origin:** United States. **historical origin:** United States. **cultivar:** Late Cluster. **pedigree:** Identical to USDA 65102, Yakima Cluster. **other id:** USDA 65104. **remarks:** Not adapted to Western Oregon because of downy mildew susceptibility. Indistinguishable from other Cluster sels. Perennial. Cultivar. Plant.

PI 559280 **origin:** United States. **historical origin:** United States. **cultivar:** Early Cluster E-2. **pedigree:** Perhaps a somatic mutation of an Ore. or Pac. coast Cluster. **other id:** USDA 65103 Selection E-2. **remarks:** Major hop variety in Washington and Idaho. Not suitable for Western Oregon due to downy mildew susceptibility. Perennial. Cultivar. Plant.

PI 559281. *Glycine tabacina* (Labill.) Benth. FABACEAE Perennial soybean

Donated by: Hymowitz, T., University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue, Urbana, Illinois, United States. Received .

origin: Taiwan. **origin institute id:** IL 881. **collected:** April 08, 1988. **locality:** Collected by the airport (NE) on Chimei Island, Pescadora Islands, Taiwan. Perennial. Wild. Seed.

PI 559282 to 559288. *Glycine clandestina* Wendl. FABACEAE Perennial soybean

Donated by: Brown, A.H.D., CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, ACT, Queensland, Australia. Received June 13, 1989.

- PI 559282 **origin:** Australia. **origin institute id:** IL 957. **collected:** August 10, 1985. **collector id:** 632/3,4. **other id:** G 2144. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Mount Hutton, 125 km W of Tarsom. **latitude:** 25 deg. 50 min. S. **longitude:** 149 deg. 49 min. E. **elevation:** 400mm. Perennial. Wild. Seed.
- PI 559283 **origin:** Australia. **origin institute id:** IL 959. **collected:** August 11, 1985. **collector id:** 638/17. **other id:** G 2146. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Ingelasa, 13.6 km W of Wyseby. **latitude:** 24 deg. 59 min. S. **longitude:** 148 deg. 23 min. E. **elevation:** 300mm. Perennial. Wild. Seed.
- PI 559284 **origin:** Australia. **origin institute id:** IL 975. **collected:** August 20, 1985. **collector id:** 817/14. **other id:** G 2162. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Tanduringie Creek, 2.4 km N of Maidenwell. **latitude:** 26 deg. 50 min. S. **longitude:** 151 deg. 48 min. E. **elevation:** 500mm. Perennial. Wild. Seed.
- PI 559285 **origin:** Australia. **origin institute id:** IL 978. **collected:** August 20, 1985. **collector id:** 821/1-3. **other id:** G 2165. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Alice Creek, 9.8 km SW of Kumbia. **latitude:** 26 deg. 45 min. S. **longitude:** 151 deg. 36 min. E. **elevation:** 556mm. Perennial. Wild. Seed.
- PI 559286 **origin:** Australia. **origin institute id:** IL 985. **collected:** August 22, 1985. **collector id:** 836/1-6. **other id:** G 2172. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Mooloolaba River, 2 km S of Mooloolaba. **latitude:** 26 deg. 38 min. S. **longitude:** 153 deg. 09 min. E. **elevation:** 5mm. Perennial. Wild. Seed.
- PI 559287 **origin:** Australia. **origin institute id:** IL 1007. **collected:** October 27, 1985. **collector id:** 921. **other id:** G 2374. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Leigh Creek, 5.6 km E of Copley. **latitude:** 30 deg. 35 min. S. **longitude:** 138 deg. 30 min. E. **elevation:** 300mm. Perennial. Wild. Seed.

PI 559282 to 559288-continued

PI 559288 **origin:** Australia. **origin institute id:** IL 1015.
collected: October 29, 1985. **collector id:** 930. **other id:** G 2382. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Lincoln Gap, 31 km SW of Port Augusta. **latitude:** 32 deg. 37 min. S. **longitude:** 137 deg. 34 min. E. **elevation:** 100mm. Perennial. Wild. Seed.

PI 559289. *Glycine cyrtoloba* Tind. FABACEAE Perennial soybean

Donated by: Brown, A.H.D., CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, ACT, Queensland, Australia. Received June 13, 1989.

origin: Australia. **origin institute id:** IL 1036.
collected: August 24, 1985. **collector id:** 844/4,5. **other id:** G 2108. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** The Twins Mountain, 30 km W of Boonah. **latitude:** 28 deg. 02 min. S. **longitude:** 152 deg. 27 min. E. **elevation:** 250mm. Perennial. Wild. Seed.

PI 559290 to 559306. *Glycine latifolia* (Benth.) C. Newell & Hymowitz
FABACEAE Perennial soybean

Donated by: Brown, A.H.D., CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, ACT, Queensland, Australia. Received June 13, 1989.

PI 559290 **origin:** Australia. **origin institute id:** IL 1045.
collected: August 11, 1985. **collector id:** 635/5. **other id:** G 2112. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Dawson River, second crossing, 56 km N of Injune. **latitude:** 25 deg. 23 min. S. **longitude:** 148 deg. 38 min. E. **elevation:** 450mm. Perennial. Wild. Seed.

PI 559291 **origin:** Australia. **origin institute id:** IL 1046.
collected: August 11, 1985. **collector id:** 637. **other id:** G 2113. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Carnarvon Creek, 1 km W of Wyseby. **latitude:** 24 deg. 58 min. S. **longitude:** 148 deg. 31 min. E. **elevation:** 270mm. Perennial. Wild. Seed.

PI 559290 to 559306-continued

- PI 559292 **origin:** Australia. **origin institute id:** IL 1047.
collected: August 11, 1985. **collector id:** 638/3,6.
other id: G 2114. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Ingelara, 13 km
W of Wyseby. **latitude:** 24 deg. 59 min. S. **longitude:**
148 deg. 23 min. E. **elevation:** 300mm. Perennial. Wild.
Seed.
- PI 559293 **origin:** Australia. **origin institute id:** IL 1048.
collected: August 12, 1985. **collector id:** 647/1-4.
other id: G 2115. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Aldinga
Droughtmaster Stud, 44 km SW of Rolleston. **latitude:** 24
deg. 46 min. S. **longitude:** 148 deg. 22 min. E.
elevation: 250mm. Perennial. Wild. Seed.
- PI 559294 **origin:** Australia. **origin institute id:** IL 1049.
collected: August 12, 1985. **collector id:** 648/13. **other**
id: G 2116. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Sandy Creek, 40 km WSW
of Rolleston. **latitude:** 24 deg. 38 min. S. **longitude:**
148 deg. 20 min. E. **elevation:** 213mm. Perennial. Wild.
Seed.
- PI 559295 **origin:** Australia. **origin institute id:** IL 1050.
collected: August 13, 1985. **collector id:** 656/1-5.
other id: G 2117. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Cairdbeign
Creek, 12 km S of Springsure. **latitude:** 24 deg. 14 min.
S. **longitude:** 148 deg. 06 min. E. **elevation:** 340mm.
Perennial. Wild. Seed.
- PI 559296 **origin:** Australia. **origin institute id:** IL 1053.
collected: August 14, 1985. **collector id:** 662. **other**
id: G 2120. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Retro Creek, 23 km NW
of Capella. **latitude:** 22 deg. 59 min. S. **longitude:** 147
deg. 50 min. E. **elevation:** 220mm. Perennial. Wild.
Seed.
- PI 559297 **origin:** Australia. **origin institute id:** IL 1054.
collected: August 14, 1985. **collector id:** 663/456.
other id: G 2121. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Retro Creek, 15
km NW of Capella. **latitude:** 23 deg. 03 min. S.
longitude: 147 deg. 54 min. E. **elevation:** 240mm.
Perennial. Wild. Seed.

PI 559290 to 559306-continued

- PI 559298 **origin:** Australia. **origin institute id:** IL 1055.
collected: August 14, 1985. **collector id:** 664/1-9.
other id: G 2122. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Freshfield
bore, 21 km SW of Capella. **latitude:** 23 deg. 16 min. S.
longitude: 148 deg. 06 min. E. **elevation:** 200mm.
Perennial. Wild. Seed.
- PI 559299 **origin:** Australia. **origin institute id:** IL 1056.
collected: August 14, 1985. **collector id:** 668/1-7.
other id: G 2123. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Nogoa River 2
km E of Emerald. **latitude:** 23 deg. 32 min. S.
longitude: 148 deg. 01 min. E. **elevation:** 180mm.
Perennial. Wild. Seed.
- PI 559300 **origin:** Australia. **origin institute id:** IL 1057.
collected: August 15, 1985. **collector id:** 670/11. **other**
id: G 2124. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Medway Creek, 95 km W
of Emerald. **latitude:** 23 deg. 39 min. S. **longitude:** 147
deg. 17 min. E. **elevation:** 350mm. Perennial. Wild.
Seed.
- PI 559301 **origin:** Australia. **origin institute id:** IL 1058.
collected: August 18, 1985. **collector id:** 698/1-9.
other id: G 2126. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** 5 km W of
Mitchell. **latitude:** 26 deg. 29 min. S. **longitude:** 147
deg. 56 min. E. **elevation:** 350mm. Perennial. Wild.
Seed.
- PI 559302 **origin:** Australia. **origin institute id:** IL 1059.
collected: August 18, 1985. **collector id:** 801/1-9.
other id: G 2127. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Muckaby Creek,
58 km E of Mitchell. **latitude:** 26 deg. 35 min. S.
longitude: 148 deg. 32 min. E. **elevation:** 345mm.
Perennial. Wild. Seed.
- PI 559303 **origin:** Australia. **origin institute id:** IL 1060.
collected: August 19, 1985. **collector id:** 810/1-9.
other id: G 2128. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Jimbour Creek,
1 km S of Macalister. **latitude:** 27 deg. 03 min. S.
longitude: 151 deg. 05 min. E. **elevation:** 320mm.
Perennial. Wild. Seed.

PI 559290 to 559306-continued

- PI 559304 origin: Australia. origin institute id: IL 1061.
collected: August 19, 1985. collector id: 811/1-6.
other id: G 2129. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Myall Creek, 19
km SE of Dalby. latitude: 27 deg. 05 min. S. longitude:
151 deg. 23 min. E. elevation: 400mm. Perennial. Wild.
Seed.
- PI 559305 origin: Australia. origin institute id: IL 1063.
collected: August 11, 1985. collector id: 639/6. other
id: G 2132. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Carnarvon Creek, 27 km
W of Wyseby. latitude: 25 deg. 01 min. S. longitude:
148 deg. 18 min. E. elevation: 300mm. Perennial. Wild.
Seed.
- PI 559306 origin: Australia. origin institute id: IL 1064.
collected: August 12, 1985. collector id: 640/1-3.
other id: G 2133. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Christmas
Creek, 40 km S of Rolleston. latitude: 25 deg. 04 min.
S. longitude: 148 deg. 15 min. E. elevation: 300mm.
Perennial. Wild. Seed.

PI 559307 to 559310. *Glycine microphylla* (Benth.) Tind. FABACEAE
Perennial soybean

Donated by: Brown, A.H.D., CSIRO, Division of Plant Industry, GPO
Box 1600, Canberra, ACT, Queensland, Australia. Received June 13,
1989.

- PI 559307 origin: Australia. origin institute id: IL 1069.
collected: August 06, 1985. collector id: 618. other
id: G 2296. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: 19.5 km from Ebor,
towards Grafton. latitude: 30 deg. 18 min. S.
longitude: 152 deg. 26 min. E. elevation: 1180mm.
Perennial. Wild. Seed.
- PI 559308 origin: Australia. origin institute id: IL 1071.
collected: August 20, 1985. collector id: 815. other
id: G 2301. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Bunya Mountains
National Park, 59 km NE of Dalby. latitude: 26 deg. 51
min. S. longitude: 151 deg. 36 min. E. elevation:
400mm. Perennial. Wild. Seed.

PI 559307 to 559310-continued

- PI 559309 **origin:** Australia. **origin institute id:** IL 1072.
collected: August 20, 1985. **collector id:** 819/1,4.
other id: G 2302. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Bunya Mountains
State Forest, 19.3 km W of Maidenwell. **latitude:** 26 deg.
52 min. S. **longitude:** 151 deg. 37 min. E. **elevation:**
833mm. Perennial. Wild. Seed.
- PI 559310 **origin:** Australia. **origin institute id:** IL 1074.
collected: August 23, 1985. **collector id:** 840. **other**
id: G 2340. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Howard Creek, 10.5 km
W of Oxenford. **latitude:** 27 deg. 52 min. S. **longitude:**
153 deg. 15 min. E. **elevation:** 400mm. Perennial. Wild.
Seed.

PI 559311 to 559358. *Glycine tabacina* (Labill.) Benth. FABACEAE
Perennial soybean

Donated by: Brown, A.H.D., CSIRO, Division of Plant Industry, GPO
Box 1600, Canberra, ACT, Queensland, Australia. Received June 13,
1989.

- PI 559311 **origin:** Australia. **origin institute id:** IL 1085.
collected: August 13, 1985. **collector id:** 656/6. **other**
id: G 2185. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Cairdbeign Creek, 12
km S of Springsure. **latitude:** 24 deg. 14 min. S.
longitude: 148 deg. 06 min. E. **elevation:** 640mm.
Perennial. Wild. Seed.
- PI 559312 **origin:** Australia. **origin institute id:** IL 1087.
collected: August 14, 1985. **collector id:** 666/1-3.
other id: G 2187. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** 2.3 km W of
Yamala, 19.5 km E. of Emerald. **latitude:** 23 deg. 35 min.
S. **longitude:** 148 deg. 20 min. E. **elevation:** 190mm.
Perennial. Wild. Seed.
- PI 559313 **origin:** Australia. **origin institute id:** IL 1105.
collected: August 15, 1985. **collector id:** 669/3. **other**
id: G 2208. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Gap Creek, overflow,
16.6 km W of Anakie. **latitude:** 23 deg. 38 min. S.
longitude: 147 deg. 36 min. E. **elevation:** 230mm.
Perennial. Wild. Seed.

PI 559311 to 559358-continued

- PI 559314 **origin:** Australia. **origin institute id:** IL 1109.
collected: August 16, 1985. **collector id:** 682/1-9.
other id: G 2212. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Barcoo River, S
of Blackall, growing on bank. **latitude:** 24 deg. 26 min.
S. **longitude:** 145 deg. 28 min. E. **elevation:** 280mm.
Perennial. Wild. Seed.
- PI 559315 **origin:** Australia. **origin institute id:** IL 1114.
collected: August 18, 1985. **collector id:** 696/all.
other id: G 2217. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** 2.4 km E of
Morven, towards Mitchell. **latitude:** 25 deg. 26 min. S.
longitude: 146 deg. 08 min. E. **elevation:** 440mm.
Perennial. Wild. Seed.
- PI 559316 **origin:** Australia. **origin institute id:** IL 1119.
collected: August 19, 1985. **collector id:** 805/2-5.
other id: G 2222. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Bungewoorai
Creek, 9 km S of Roma. **latitude:** 26 deg. 39 min. S.
longitude: 148 deg. 45 min. E. **elevation:** 290mm.
Perennial. Wild. Seed.
- PI 559317 **origin:** Australia. **origin institute id:** IL 1121.
collected: August 19, 1985. **collector id:** 807/1,2.
other id: G 2224. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Tchanning
Creek, 74.4 km E of Roma. **latitude:** 26 deg. 37 min. S.
longitude: 149 deg. 33 min. E. **elevation:** 330mm.
Perennial. Wild. Seed.
- PI 559318 **origin:** Australia. **origin institute id:** IL 1126.
collected: August 20, 1985. **collector id:** 823/111.
other id: G 2231. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Stuart River,
15 km SW of Kingaroy. **latitude:** 26 deg. 36 min. S.
longitude: 151 deg. 46 min. E. **elevation:** 350mm.
Perennial. Wild. Seed.
- PI 559319 **origin:** Australia. **origin institute id:** IL 1143.
collected: August 11, 1985. **collector id:** 637/15. **other**
id: G 2249. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Carnarvon Creek, 1 km
W of Wyseby. **latitude:** 24 deg. 58 min. S. **longitude:**
148 deg. 31 min. E. **elevation:** 270mm. Perennial. Wild.
Seed.

- PI 559320 origin: Australia. origin institute id: IL 1149.
collected: August 12, 1985. collector id: 645/9. other
id: G 2256. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: 14 km S of Wyseby.
latitude: 25 deg. 06 min. S. longitude: 148 deg. 35 min.
E. elevation: 290mm. Perennial. Wild. Seed.
- PI 559321 origin: Australia. origin institute id: IL 1150.
collected: August 12, 1985. collector id: 646/1-7.
other id: G 2257. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Christmas
Creek, 40 km S of Rolleston. latitude: 24 deg. 48 min.
S. longitude: 148 deg. 32 min. E. elevation: 270mm.
Perennial. Wild. Seed.
- PI 559322 origin: Australia. origin institute id: IL 1151.
collected: August 12, 1985. collector id: 648/2. other
id: G 2258. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Sandy Creek, 40 km WSW
of Rolleston. latitude: 24 deg. 38 min. S. longitude:
148 deg. 20 min. E. elevation: 213mm. Perennial. Wild.
Seed.
- PI 559323 origin: Australia. origin institute id: IL 1152.
collected: August 13, 1985. collector id: 653/1,2.
other id: G 2259. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Aldebaran
Creek, 27 km NW of Rolleston. latitude: 24 deg. 20 min.
S. longitude: 148 deg. 22 min. E. elevation: 230mm.
Perennial. Wild. Seed.
- PI 559324 origin: Australia. origin institute id: IL 1153.
collected: August 13, 1985. collector id: 655/5,7.
other id: G 2260. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Mt. Sirius,
50.3 km NW of Rolleston. latitude: 24 deg. 13 min. S.
longitude: 148 deg. 13 min. E. elevation: 350mm.
Perennial. Wild. Seed.
- PI 559325 origin: Australia. origin institute id: IL 1154.
collected: August 14, 1985. collector id: 661/9. other
id: G 2261. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Capella Creek, 1 km N
of Capella. latitude: 23 deg. 05 min. S. longitude: 148
deg. 01 min. E. elevation: 200mm. Perennial. Wild.
Seed.

PI 559311 to 559358-continued

- PI 559326 origin: Australia. origin institute id: IL 1156.
collected: August 16, 1985. collector id: 686/1. other
id: G 2264. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Barcor River, 0.5 km N
of Tambo. latitude: 24 deg. 53 min. S. longitude: 146
deg. 15 min. E. elevation: 415mm. Perennial. Wild.
Seed.
- PI 559327 origin: Australia. origin institute id: IL 1157.
collected: August 17, 1985. collector id: 689/1-9.
other id: G 2265. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Bedurie Creek,
80.8 km SE of Tambo. latitude: 25 deg. 30 min. S.
longitude: 146 deg. 36 min. E. elevation: 410mm.
Perennial. Wild. Seed.
- PI 559328 origin: Australia. origin institute id: IL 1158.
collected: August 17, 1985. collector id: 690/3-9.
other id: G 2266. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Warrego River,
Augathella. latitude: 25 deg. 48 min. S. longitude: 146
deg. 35 min. E. elevation: 360mm. Perennial. Wild.
Seed.
- PI 559329 origin: Australia. origin institute id: IL 1159.
collected: August 17, 1985. collector id: 691/11. other
id: G 2267. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Barduthulla, Warrego
River, 40 km NE of Charleville. latitude: 26 deg. 05
min. S. longitude: 146 deg. 25 min. E. elevation:
350mm. Perennial. Wild. Seed.
- PI 559330 origin: Australia. origin institute id: IL 1160.
collected: August 18, 1985. collector id: 695/30. other
id: G 2268. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Angellala Creek, 65 km
E of Charleville. latitude: 26 deg. 25 min. S.
longitude: 146 deg. 53 min. E. elevation: 400mm.
Perennial. Wild. Seed.
- PI 559331 origin: Australia. origin institute id: IL 1161.
collected: August 18, 1985. collector id: 697/246.
other id: G 2269. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Mungallala
Creek, 43 km E of Morven. latitude: 26 deg. 27 min. S.
longitude: 147 deg. 33 min. E. elevation: 440mm.
Perennial. Wild. Seed.

PI 559311 to 559358-continued

- PI 559332 **origin:** Australia. **origin institute id:** IL 1162.
collected: August 18, 1985. **collector id:** 700/1. **other id:** G 2270. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Amby Creek, Amby, 22.9 km E of Mitchell. **latitude:** 26 deg. 33 min. S. **longitude:** 148 deg. 11 min. E. **elevation:** 330mm. Perennial. Wild. Seed.
- PI 559333 **origin:** Australia. **origin institute id:** IL 1163.
collected: August 19, 1985. **collector id:** 805/6. **other id:** G 2271. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Bungewoorai Creek, 9 km S of Roma. **latitude:** 26 deg. 39 min. S. **longitude:** 148 deg. 45 min. E. **elevation:** 290mm. Perennial. Wild. Seed.
- PI 559334 **origin:** Australia. **origin institute id:** IL 1164.
collected: August 19, 1985. **collector id:** 806/4. **other id:** G 2272. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Wallumbilla Creek, 39.2 km E of Roma. **latitude:** 26 deg. 35 min. S. **longitude:** 149 deg. 10 min. E. **elevation:** 330mm. Perennial. Wild. Seed.
- PI 559335 **origin:** Australia. **origin institute id:** IL 1165.
collected: August 19, 1985. **collector id:** 807/3-9. **other id:** G 2273. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Tchanning Creek, 74.4 km E of Roma. **latitude:** 26 deg. 37 min. S. **longitude:** 149 deg. 33 min. E. **elevation:** 330mm. Perennial. Wild. Seed.
- PI 559336 **origin:** Australia. **origin institute id:** IL 1166.
collected: August 19, 1985. **collector id:** 808/14. **other id:** G 2274. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Drillham Creek, Drillham, 20 km W of Miles. **latitude:** 26 deg. 39 min. S. **longitude:** 149 deg. 59 min. E. **elevation:** 320mm. Perennial. Wild. Seed.
- PI 559337 **origin:** Australia. **origin institute id:** IL 1167.
collected: August 19, 1985. **collector id:** 812/1-6. **other id:** G 2275. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Yamison, 38 km NE of Dalby. **latitude:** 27 deg. 00 min. S. **longitude:** 151 deg. 32 min. E. **elevation:** 170mm. Perennial. Wild. Seed.

PI 559311 to 559358-continued

- PI 559338 **origin:** Australia. **origin institute id:** IL 1168.
collected: August 20, 1985. **collector id:** 813. **other id:** G 2276. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Myall Creek, 46 km NE of Dalby. **latitude:** 26 deg. 57 min. S. **longitude:** 151 deg. 37 min. E. **elevation:** 560mm. Perennial. Wild. Seed.
- PI 559339 **origin:** Australia. **origin institute id:** IL 1169.
collected: August 20, 1985. **collector id:** 816/9. **other id:** G 2277. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Wengen Creek, 11km W of Maidenwell. **latitude:** 26 deg. 50 min. S. **longitude:** 151 deg. 42 min. E. **elevation:** 550mm. Perennial. Wild. Seed.
- PI 559340 **origin:** Australia. **origin institute id:** IL 1171.
collected: August 20, 1985. **collector id:** 818/17. **other id:** G 2279. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Middle Creek, 3 km W of Maidenwell. **latitude:** 26 deg. 50 min. S. **longitude:** 151 deg. 45 min. E. **elevation:** 567mm. Perennial. Wild. Seed.
- PI 559341 **origin:** Australia. **origin institute id:** IL 1172.
collected: August 20, 1985. **collector id:** 819/1-9. **other id:** G 2280. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Bunya Mountains State Forest, 19.3 km W of Maidenwell. **latitude:** 26 deg. 52 min. S. **longitude:** 151 deg. 37 min. E. **elevation:** 833mm. Perennial. Wild. Seed.
- PI 559342 **origin:** Australia. **origin institute id:** IL 1173.
collected: August 20, 1985. **collector id:** 821. **other id:** G 2281. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Alice Creek, 10 km SW of Kumbia. **latitude:** 26 deg. 45 min. S. **longitude:** 151 deg. 36 min. E. **elevation:** 566mm. Perennial. Wild. Seed.
- PI 559343 **origin:** Australia. **origin institute id:** IL 1174.
collected: August 20, 1985. **collector id:** 822/567. **other id:** G 2282. **source:** Section of Genetic Resources, CSIRO, Australia. **group:** GNO. **locality:** Benair, 9.6 km NE of Kumbia. **latitude:** 26 deg. 39 min. S. **longitude:** 151 deg. 43 min. E. **elevation:** 500mm. Perennial. Wild. Seed.

PI 559311 to 559358-continued

- PI 559344 origin: Australia. origin institute id: IL 1175.
collected: August 20, 1985. collector id: 823. other
id: G 2283. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Stuart River, 15 km SW
of Kingaroy. latitude: 26 deg. 36 min. S. longitude:
151 deg. 46 min. E. elevation: 350mm. Perennial. Wild.
Seed.
- PI 559345 origin: Australia. origin institute id: IL 1176.
collected: August 21, 1985. collector id: 824/2,3.
other id: G 2284. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Tingoora, 22.4
km N of Kingaroy. latitude: 26 deg. 22 min. S.
longitude: 151 deg. 48 min. E. elevation: 500mm.
Perennial. Wild. Seed.
- PI 559346 origin: Australia. origin institute id: IL 1177.
collected: August 21, 1985. collector id: 825/3. other
id: G 2285. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Barambah Creek, 5 km E
of Murgon. latitude: 26 deg. 15 min. S. longitude: 151
deg. 54 min. E. elevation: 333mm. Perennial. Wild.
Seed.
- PI 559347 origin: Australia. origin institute id: IL 1178.
collected: August 21, 1985. collector id: 826/5. other
id: G 2286. source: Section of Genetic Resources, CSIRO,
Australia. group: GNO. locality: Wide Bay Creek, 9 km
SW of Kilkivan. latitude: 26 deg. 09 min. S. longitude:
152 deg. 12 min. E. elevation: 167mm. Perennial. Wild.
Seed.
- PI 559348 origin: Australia. origin institute id: IL 1180.
collected: August 21, 1985. collector id: 833/1,2.
other id: G 2289. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Buderim, 16.2
km S of Nambour. latitude: 26 deg. 44 min. S.
longitude: 153 deg. 03 min. E. elevation: 80mm.
Perennial. Wild. Seed.
- PI 559349 origin: Australia. origin institute id: IL 1181.
collected: August 22, 1985. collector id: 839/1-5.
other id: G 2290. source: Section of Genetic Resources,
CSIRO, Australia. group: GNO. locality: Mountain Creek,
2 km SW of Buderun. latitude: 26 deg. 42 min. S.
longitude: 153 deg. 03 min. E. elevation: 50mm.
Perennial. Wild. Seed.

PI 559311 to 559358-continued

- PI 559350 **origin:** Australia. **origin institute id:** IL 1182.
collected: August 23, 1985. **collector id:** 841/4,5.
other id: G 2291. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Mt. Tamborne,
14.7 km W of Oxenford. **latitude:** 27 deg. 50 min. S.
longitude: 153 deg. 13 min. E. **elevation:** 500mm.
Perennial. Wild. Seed.
- PI 559351 **origin:** Australia. **origin institute id:** IL 1183.
collected: August 23, 1985. **collector id:** 842/5-7.
other id: G 2292. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Cedar Creek
National Park, 7 km SE of Tamborne. **latitude:** 27 deg. 50
min. S. **longitude:** 153 deg. 10 min. E. **elevation:**
500mm. Perennial. Wild. Seed.
- PI 559352 **origin:** Australia. **origin institute id:** IL 1185.
collected: August 24, 1985. **collector id:** 846/1-9.
other id: G 2294. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** MacIntyre
Brook, Whetstone Bridge, 18.6 km S of Inglewood.
latitude: 28 deg. 30 min. S. **longitude:** 150 deg. 47 min.
E. **elevation:** 285mm. Perennial. Wild. Seed.
- PI 559353 **origin:** Australia. **origin institute id:** IL 1186.
collected: August 17, 1985. **collector id:** 693. **other**
id: G 2298. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Warrego River,
Charleville, near bridge. **latitude:** 26 deg. 24 min. S.
longitude: 146 deg. 14 min. E. **elevation:** 400mm.
Perennial. Wild. Seed.
- PI 559354 **origin:** Australia. **origin institute id:** IL 1187.
collected: August 17, 1985. **collector id:** 690/2,5.
other id: G 2338. **source:** Section of Genetic Resources,
CSIRO, Australia. **group:** GNO. **locality:** Warrego River,
Augathella. **latitude:** 24 deg. 48 min. S. **longitude:** 146
deg. 35 min. E. **elevation:** 360mm. Perennial. Wild.
Seed.
- PI 559355 **origin:** Australia. **origin institute id:** IL 1188.
collected: August 20, 1985. **collector id:** 814/3. **other**
id: G 2341. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Bunya Mountains
National Park, 54 km NE of Dalby. **latitude:** 26 deg. 54
min. S. **longitude:** 151 deg. 38 min. E. **elevation:**
1000mm. Perennial. Wild. Seed.

PI 559311 to 559358-continued

- PI 559356 **origin:** Australia. **origin institute id:** IL 1189.
collected: August 18, 1985. **collector id:** 802. **other**
id: G 2348. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Bungeworgoria Creek,
74.4 km E of Mitchell. **latitude:** 26 deg. 36 min. S.
longitude: 148 deg. 41 min. E. **elevation:** 300mm.
Perennial. Wild. Seed.
- PI 559357 **origin:** Australia. **origin institute id:** IL 1190.
collected: August 26, 1985. **collector id:** 848. **other**
id: G 2715. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Marshalls' Ponds, 15.3
km N of Moree. **latitude:** 29 deg. 19 min. S. **longitude:**
150 deg. 11 min. E. **elevation:** 200mm. Perennial. Wild.
Seed.
- PI 559358 **origin:** Australia. **origin institute id:** IL 1192.
collected: August 21, 1985. **collector id:** 825. **other**
id: G 2741. **source:** Section of Genetic Resources, CSIRO,
Australia. **group:** GNO. **locality:** Baramah Creek, 5 km E
of Murgon. **latitude:** 26 deg. 15 min. S. **longitude:** 151
deg. 54 min. E. **elevation:** 305mm. Perennial. Wild.
Seed.

Scientific Name Cross Reference

Abelmoschus esculentus	555588-555596	Corylus sieboldiana	
Agropyron cristatum	557431-557432	var. brevirostris	557409-557411
Allium cepa	555656	Corylus sieboldiana	
Amaranthus hypochondriacus	558499	var. mandshurica	557412-557415
Arachis hypogaea	556992, 557558	Corylus sp.	557416-557428
Astragalus sp.	557433-557436	Corylus x colurnoides	557429
Avena sativa	555666, 555726-555746	Corylus x vilmorinii	557430
Beta vulgaris	555454, 558505-558507, 558513-558515	Cucumis melo	557561
Brassica napus	555466-555467	Cynodon dactylon	557553
Bromus inermis	557437-557441	Dactylis glomerata	555459
Buchloe dactyloides	555657	Desmanthus illinoensis	555587
Canavalia ensiformis	555605	Elymus rectisetus	557454
Capsicum annuum	555598-555600, 555611, 555649	Elymus sibiricus	557455
Capsicum chacoense	555612	Elytrigia intermedia	556987
Capsicum sp.	555597, 555613-555648	Eragrostis tef	557456-557457
Cicer arietinum	557442-557452	Festuca arundinacea	555652
Cicer canariense	557453	Festuca rubra	557001
Citrullus lanatus	556994-556995	Glycine clandestina	559282-559288
Corylus americana	557018-557023	Glycine cyrtoloba	559289
Corylus avellana	557024-557243	Glycine latifolia	559290-559306
Corylus colurna	557244-557258	Glycine max	555396-555399, 555453, 555463-555464, 556467-556933, 556948-556950, 556989, 556996-556997, 557010-557011, 557535-557536, 558508-558509
Corylus colurna var. chinensis	557259-557266	Glycine microphylla	559307-559310
Corylus colurna var. lacera	557267-557268	Glycine tabacina	559281, 559311-559358
Corylus cornuta	557269-557278	Gossypium hirsutum	555661, 556456, 556978-556979, 557002, 557534, 557560
var. californica	557279-557301	Hippocrepis sp.	557458
Corylus ferox	557302	Hordeum vulgare	555449, 555582-555585, 555747, 556954-556972, 556999-557000
Corylus ferox var. thibetica	557303-557305	Humulus japonicus	558535-558548
Corylus heterophylla	557306-557325	Humulus lupulus	558549-559280
Corylus heterophylla var. sutchuenensis	557326-557327	Ipomoea batatas var. batatas	556934-556947
Corylus heterophylla var. thunbergii	557328	Lablab purpureus	555670
Corylus heterophylla var. yunnanensis	557329-557330	Lactuca sativa	555460-555461, 555653, 556998, 557554-557555, 557564-557565
Corylus hybrid	557331-557398	Lens culinaris	557499
Corylus maxima	557399-557401	Lolium perenne	555654-555655
Corylus sieboldiana	557402-557408	Luffa sp.	555606
		Medicago sativa	555450-555452, 555667
		Melilotus albus	557503-557533

Mentha aquatica	557570-557583	Nicotiana amplexicaulis	555682
Mentha arvensis	557584-557597	Nicotiana arentsii	555475
Mentha canadensis	557598-557633	Nicotiana attenuata	555476,
Mentha cervina	557634-557636		555683
Mentha dahurica	557637-557638	Nicotiana benavidesii	555477
Mentha gattefossei	557639-557642	Nicotiana benthamiana	555478,
Mentha hybrid	557643-557753		555684
Mentha japonica	557754	Nicotiana bigelovii	555479-
Mentha longifolia	557755-557766		555488
Mentha longifolia		Nicotiana bonariensis	555489
subsp. capensis	557767	Nicotiana clevelandii	555490-
Mentha longifolia			555492
subsp. himalayensis	557768	Nicotiana cordifolia	555493-
Mentha longifolia			555494
subsp. polyadenia	557769	Nicotiana debneyi	555495-
Mentha longifolia			555499
subsp. typhoides	557770	Nicotiana excelsior	555685
Mentha pulegium	557771-557780	Nicotiana exigua	555500
Mentha requienii	557781-557782	Nicotiana forgetiana	555501-
Mentha sp.	557783-557785		555502
Mentha spicata	557786-557887	Nicotiana fragrans	555503
Mentha spicata subsp. tomentosa	557888-557890	Nicotiana glauca	555504, 555686
		Nicotiana glutinosa	555505-
Mentha suaveolens	557891-557912		555512
		Nicotiana hesperis	555687
Mentha x dalmatica	557913-557915	Nicotiana hybrid	555513-555526,
			555694-555724
Mentha x dumetorum	557916-557917	Nicotiana knightiana	555527
Mentha x gracilis	557918-557935	Nicotiana langsdorffii	555528-
			555529
Mentha x maximiliana	557936	Nicotiana linearis	555530
Mentha x piperita	557937-557983	Nicotiana longiflora	555531-
			555534
Mentha x piperita		Nicotiana maritima	555535
nsubsp. pyramidalis	557984	Nicotiana megalosiphon	555536,
			555688
Mentha x piperita		Nicotiana miersii	555537
subsp. citrata	557985-557997	Nicotiana nesophila	555538-
			555539
Mentha x rotundifolia	557998-558000	Nicotiana nudicaulis	555540
		Nicotiana occidentalis	555541,
Mentha x smithiana	558001-558003		555689-555690
		Nicotiana otophora	555542
Mentha x verticillata	558004-558005	Nicotiana palmeri	555543
		Nicotiana paniculata	555544-
Mentha x villosa	558006-558008		555545
		Nicotiana pauciflora	555546
Mentha x villosa		Nicotiana petunioides	555547
var. alopecuroides	558009-558018	Nicotiana plumbaginifolia	555548
			555548
Nicotiana acaulis	555468	Nicotiana raimondii	555549-
Nicotiana acuminata	555469-555471		555550
		Nicotiana repanda	555551-
Nicotiana africana	555472		555552
Nicotiana alata	555473-555474	Nicotiana rotundifolia	555553,
			555691
		Nicotiana rustica	555554-

555556, 555692-555693
Nicotiana setchellii 555557
Nicotiana solanifolia 555558
Nicotiana spegazzinii 555559
Nicotiana stocktonii 555560
Nicotiana suaveolens 555561-555568
Nicotiana sylvestris 555569-555571
Nicotiana tabacum 556976-556977, 557003-557006, 558503-558504, 558512
Nicotiana tomentosiformis 555572
Nicotiana trigonophylla 555573
Nicotiana undulata 555574-555575
Nicotiana x sanderae 555576-555581, 555725
Onobrychis sp. 557459-557460
Oryza sativa 558500-558501, 558511
Paspalum notatum 556953
Perilla frutescens 557009
Phalaris arundinacea 557461
Phaseolus lunatus 557540-557541
Phaseolus sp. 557542
Phaseolus vulgaris 555455, 555665, 557462-557488, 557543-557552
Phoenix dactylifera 555400-555448
Pisum sativum 557500-557502, 557559
Poa pratensis 555658, 556993
Psathyrostachys juncea 556988
Ribes acicularis 555748
Ribes alpestre 555749
Ribes alpinum 555750-555752
Ribes altissimum 555753-555754
Ribes americanum 555755
Ribes aureum 555756-555765
Ribes binominatum 555766
Ribes bracteosum 555767-555777
Ribes burejense 555778-555779
Ribes californicum
 var. *hesperium* 555780
Ribes cereum 555781-555798
Ribes cereum var. *colubrinum* 555799
Ribes cereum var. *inebrians* 555800
Ribes coloradense 555801-555802
Ribes cruentum 555803-555808
Ribes cucullatum 555809

Ribes curvatum 555810-555812
Ribes cynosbati 555813
Ribes diacantha 555814
Ribes divaricatum 555815
Ribes echinellum 555816-555818
Ribes fasciculatum 555819
 var. *chinense* 555820-555824
Ribes formosanum 555825
Ribes glandulosum 555826
Ribes grossularia 555827-555999
Ribes heterotrichum 556000-556001
Ribes himalayense 556002
Ribes hirsuta 556003
Ribes hispidulum 556004
Ribes howellii 556005-556007
Ribes hudsonianum 556008-556011
 var. *petiolare* 556012-556015
Ribes hybrid 556016-556097
Ribes inerme 556098-556109
Ribes janczewskii 556110-556112
Ribes komarovii 556113-556116
Ribes lacustre 556117-556131
Ribes latifolium 556132
Ribes laxiflorum 556133
Ribes leptanthum 556134-556138
Ribes lobbbii 556139-556146
Ribes mandshuricum 556147
 var. *subglabratum* 556148
Ribes maximowiczii 556149-556151
Ribes menziesii 556152-556153
Ribes meyeri 556154-556156
Ribes montigenum 556157
Ribes nevadense 556158
Ribes nigrum 556159-556246
 var. *sibiricum* 556247-556248
Ribes niveum 556249-556253
Ribes odoratum 556254-556257
Ribes orientale 556258-556262
Ribes oxyacanthoides 556263-556265
 subsp. *irriguum* 556266-556270
 subsp. *setosum* 556271
Ribes palczewskii 556272-556273

<i>Ribes pauciflorum</i>	556274-	558047	
556275		<i>Solanum commersonii</i>	558048-
<i>Ribes petraeum</i>	556276-556281	558050	
<i>Ribes petraeum</i>		<i>Solanum demissum</i>	558051-558052,
var. <i>atropurpureum</i>	556282	558385-558393	
<i>Ribes petraeum</i> var. <i>carpathicum</i>	556283	<i>Solanum etuberosum</i>	558053-
		558056,558284-558312	
<i>Ribes punctatum</i>	556284	<i>Solanum fendleri</i>	558057-558060
<i>Ribes quercetorum</i>	556285	<i>Solanum fendleri</i>	
<i>Ribes roezlii</i>	556286-556290	subsp. <i>fendleri</i>	558394-
<i>Ribes rotundifolium</i>	556291-	558398	
556297		<i>Solanum gourlayi</i>	558061-558084
<i>Ribes rubrum</i>	556298-556369	<i>Solanum hintonii</i>	558399-558400
<i>Ribes sanguineum</i>	556370-556389	<i>Solanum hougasii</i>	558401-558407
<i>Ribes</i> sp.	556390-556433	<i>Solanum hybrid</i>	558408
<i>Ribes speciosum</i>	556434	<i>Solanum infundibuliforme</i>	
<i>Ribes spicatum</i>	556435-556436	558085-558088	
<i>Ribes stenocarpum</i>	556437	<i>Solanum iopetalum</i>	558409-
<i>Ribes triste</i>	556438-556440	558433	
<i>Ribes ussuriense</i>	556441	<i>Solanum jamesii</i>	558089
<i>Ribes uva-crispa</i>	556442-556444	<i>Solanum kurtzianum</i>	558185-
<i>Ribes velutinum</i> var. <i>gooddingii</i>	556445-556446	558208	
<i>Ribes viburnifolium</i>	556447-	<i>Solanum lesteri</i>	558434-558435
556448		<i>Solanum lycopersicoides</i>	558090-
<i>Ribes viscosissimum</i>	556449-	558092	
556453		<i>Solanum maglia</i>	558313-558316
<i>Ribes wolfii</i>	556454-556455	<i>Solanum megistacrolobum</i>	558093-
<i>Saccharum hybrid</i>	555668	558096	
<i>Solanum acaule</i>	558019-558028	<i>Solanum melongena</i>	555601-
<i>Solanum acaule</i> subsp. <i>acaule</i>		555604	
558029-558030		<i>Solanum microdontum</i>	558097-
<i>Solanum acaule</i> subsp. <i>aemulans</i>		558100,558209-558212	
558152-558159		<i>Solanum microdontum</i>	
<i>Solanum acaule</i> subsp. <i>albicans</i>		subsp. <i>gigantophyllum</i>	
558031		558101,558213-558219	
<i>Solanum achacachense</i>	558032	<i>Solanum morelliforme</i>	558436-
<i>Solanum agrimonifolium</i>	558370-	558441	
558372		<i>Solanum okadae</i>	558102-558105
<i>Solanum berthaultii</i>	558033-	<i>Solanum oplocense</i>	558106-
558036		558110	
<i>Solanum brevidens</i>	558037-	<i>Solanum paucijugum</i>	558111
558040,558160-558182,558233-		<i>Solanum phureja</i>	558112
558283		<i>Solanum pinnatisectum</i>	558442
<i>Solanum bulbocastanum</i>		<i>Solanum polyadenium</i>	558443-
subsp. <i>bulbocastanum</i>	558373-	558445	
558377		<i>Solanum polytrichon</i>	558446-
<i>Solanum bulbocastanum</i>		558455	
subsp. <i>partitum</i>	558378-	<i>Solanum rickii</i>	558113-558116
558379		<i>Solanum schenckii</i>	558456-
<i>Solanum cardiophyllum</i>	558041	558458	
<i>Solanum cardiophyllum</i>		<i>Solanum</i> sp.	558117-558128
var. <i>cardiophyllum</i>	558380	<i>Solanum spegazzinii</i>	558220-
<i>Solanum chacoense</i>	558042-	558222	
558044,558183-558184		<i>Solanum stenophyllidium</i>	558459-
<i>Solanum clarum</i>	558381-558384	558461	
<i>Solanum colombianum</i>	558045-	<i>Solanum stoloniferum</i>	558462-
		558477	

Solanum tarijense	558129-
558130	
Solanum trifidum	558478-558481
Solanum tuberosum	558131-
558139	
Solanum tuberosum	
subsp. andigena	558140-
558145	
Solanum tuberosum	
var. tuberosum	558317-
558369	
Solanum venturii	558146, 558223-
558224	
Solanum vernei	558147-558151,
558225-558226	
Solanum verrucosum	558482-
558493	
Solanum x edinense	558494-
558496	
Solanum x michoacanum	558497
Solanum x rechei	558227-558232
Sorghum bicolor	555456-555457,
555671-555681, 556951-556952	
Stokesia laevis	557007-557008
Tagetes patula	557567-557568
Trifolium hybrid	556973-556975
Trifolium incarnatum	556990,
558502	
Trifolium repens	556991
Trigonella foenum-graecum	
557489	
Triticum aestivum	555458,
555465, 555586, 556457-556466,	
557012-557017, 557537-557539,	
558510	
Triticum turgidum	556981-
556986	
Ulmus parvifolia	555669
Verbena x hybrida	555662-
555664	
Vicia faba	557490-557497
Vicia sativa	557498
Vigna mungo	555607-555609
Vigna umbellata	555610
Zea mays subsp. mays	555462,
555650-555651, 555659-555660,	
556980, 557556-557557, 557562-	
557563, 557566, 557569, 558498,	
558516-558534	

Common Name Cross Reference

Alfalfa	555450-555452, 555667	557463, 557482-557486	
Amaranth	558499	Gooseberry	555749, 555766,
Bahiagrass	556953	555778-555780, 555803-555808,	
Barley	555449, 555582-555585,	555810-555813, 555816-555818,	
555747, 556954-556972, 556999-		555825, 555827-555999, 556003,	
557000		556030-556032, 556038, 556040-	
Bean	557464-557481	556041, 556051, 556056, 556074-	
Bell pepper	555611	556076, 556085, 556098-556109,	
Bermudagrass	557553	556117-556131, 556134-556146,	
Black Currant	556016-556029,	556249-556253, 556263-556271,	
556050, 556065-556067, 556072-		556285-556297, 556390-556391,	
556073, 556077-556078, 556089-		556393, 556395-556396, 556404-	
556091, 556159-556248		556407, 556414-556417, 556433-	
Black bean	557487	556434, 556437, 556442-556444	
Black gram	555607-555609	Grain sorghum	555671-555681
Broadbean	557490-557497	Green bean	557488
Buffalograss	555657	Hops	558535-559280
Chickpea	557442-557452	Intermediate wheatgrass	556987
Common oat	555666, 555726-	Jackbean	555605
555746		Jostaberry	556055, 556068-
Common wheat	555586, 557012-	556071	
557017, 557537-557539, 558510		Kentucky bluegrass	555658,
Corn	555462, 555650-555651,	556993	
555659-555660, 556980, 557556-		Lentil	557499
557557, 557562-557563, 557566,		Lettuce	555460-555461, 556998,
557569, 558498		557564-557565	
Cotton	555661, 557002, 557534,	Lettuce (cos)	555653
557560		Marigold	557567-557568
Crimson clover	556990, 558502	Mint	557570-558018
Currant	555750-555752, 555755-	Muskmelon	557561
555765, 555767-555777, 555781-		Okra	555588-555596
555802, 555814, 555819-555824,		Onion	555656
555826, 556000-556002, 556005-		Orchardgrass	555459
556015, 556064, 556110-556116,		Ornamental Currant	556255-
556132-556133, 556149-556151,		556256, 556381	
556154-556156, 556158, 556254,		Pea	557500-557502, 557559
556257-556262, 556274-556275,		Peanut	556992, 557558
556283, 556305, 556319-556320,		Pepper	555598-555600
556370-556380, 556382-556389,		Perennial ryegrass	555654-
556397-556401, 556403, 556410-		555655	
556413, 556427-556428, 556438-		Perennial soybean	559281-
556441, 556447-556455		559358	
Currant x Gooseberry Hybrid		Pink Currant	556034-556035,
556096-556097		556315-556316	
Date	555400-555448	Potato	558019-558497
Durum wheat	556981-556986	Rape	555466-555467
Eggplant	555601-555604	Red Currant	556033, 556036-
Elymus	557454	556037, 556039, 556042-556049,	
Fairway crested wheatgrass		556052-556054, 556057-556060,	
557431-557432		556063, 556079-556084, 556092-	
Fenugreek	557489	556095, 556276, 556278-556282,	
Fescue red	557001	556298-556304, 556308-556310,	
Field corn	558516-558534	556317-556318, 556321-556369,	
Filbert (Hazel)	557018-557430	556408	
Garden bean	555455, 557462-	Reed canarygrass	557461

Rice	558500-558501
Ricebean	555610
Romaine lettuce	557554-557555
Russian wildrye	556988
Smooth brome grass	557437-557441
Sorghum	555456-555457, 556951-556952
Soybean	555396-555399, 555453, 555463-555464, 556467-556469, 556482-556484, 556491-556494, 556497-556498, 556505-556506, 556512-556513, 556515-556517, 556519, 556524-556525, 556535, 556544-556547, 556549, 556557, 556561-556563, 556571, 556578, 556582, 556595-556596, 556611-556613, 556616, 556619-556620, 556634, 556647-556649, 556664, 556698-556700, 556705-556706, 556722, 556727, 556737-556738, 556748, 556754, 556785-556786, 556796, 556802, 556806-556808, 556819, 556823-556826, 556828, 556856, 556886, 556905, 556933, 556948-556950, 556989, 556996-556997, 557010-557011, 557535-557536, 558508-558509
Spiny Currant	556157
Stokes' aster	557007-557008
Sugarbeet	555454, 558505-558507, 558513-558515
Sugarcane	555668
Sweet potato	556936-556947
Sweetclover	557503-557533
Tall fescue	555652
Teff	557456-557457
Tobacco	555682-555685, 555687-555725, 556976-556977, 558503-558504, 558512
Tree tobacco	555686
Upland cotton	556456, 556978-556979
Verbena	555662-555664
Watermelon	556994-556995
Wheat	555458, 555465, 556457-556466
White Currant	556061, 556086-556088, 556277, 556306-556307, 556311-556314
White clover	556991
Wildrye	557455

Acronyms

For space conservation and consistency in identifying locations, the following acronyms have been used in Plant Inventory 200:

AVRDC	- Asian Vegetable Research and Development Center (Taiwan)
CIMMYT	- Centro Internacional de Mejoramiento de Maiz y Trigo (Mexico)
CIAT	- Centro Internacional de Agricultura Tropical (Colombia)
CSIRO	- Commonwealth Scientific and Industrial Research Organization (Australia)
EMBRAPA-	- Empresa Brasileira de Pesquisas Agropecuarias
CENARGEN	- Centro Nacional de Recursos Geneticos (Brazil)
IBPGR	- International Board for Plant Genetic Resources (Italy)
ICARDA	- International Center for Agricultural Research in the Dry Areas (Syria)
ICRISAT	- International Crops Research Institute for the Semi-Arid Tropics
IFAS	- Institute of Food and Agricultural Science (USA)
IFOGU	- Institut fur Obstbau und Gemusebau (Germany)
INRA	- Institut National de la Recherche Agronomique (France)
IITA	- International Institute of Tropical Agriculture (Nigeria)
IPPQ	- Institute for Plant Production and Qualification (Hungary)
ORSTOM	- Office de la recherche scientifique et technique d'outre mer (France)
PGQO	- Plant Germplasm Quarantine Office (USA)
USDA-ARS	- U.S. Department of Agriculture, Agricultural Research Service (USA)
USDA-SCS	- U.S. Department of Agriculture, Soil Conservation Service (USA)
VIR	- N.I. Vavilov Institute of Plant Industry (USSR)