

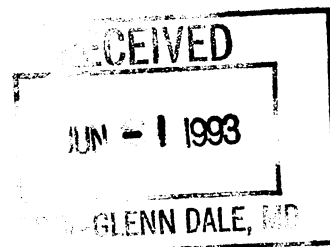


United States
Department of
Agriculture

Agricultural
Research
Service

Plant Inventory No. 201, Part 2

Plant Materials Introduced
July 1 to December 31, 1992
(Nos. 561076 to 564685)



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Plant Inventory No. 201 is a listing of plant materials introduced into the U.S. National Plant Germplasm System during calendar year 1992. The Inventory is divided into two parts that encompass PI numbers 559359 - 564685. This is not a listing of plant material for distribution.

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

R.A. Norris
National Germplasm Resources Laboratory
10300 Baltimore Ave.
Bldg. 003, Rm. 400
Beltsville, MD 20705

Other contributors to Plant Inventory 201 included:

V.M. Binstock
J.M. Ceresa
K.F. Endress
D.L. Harmon
Q.P. Sinnott
A.K. Stoner

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PI 561076. *Boissiera squarrosa* (Banks & Sol.) Nevski POACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

donor id: TU85-035-04. **origin:** Turkey. **collected:** July 22, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-035-04. **other id:** W6 9402. **other id:** CS-4. **locality:** Dry sandy soil at field margin, 2km S of Halkali village, Van Province. **latitude:** 38 deg. 49 min. N. **longitude:** 43 deg. 18 min. E. **elevation:** 1635m. **remarks:** Plants in old fields and disturbed soil at field margin. Like a bushy *Aegilops*. Wild. Seed.

PI 561077. *Cuphea aspera* Chapman LYTHRACEAE

Donated by: Wallace, S.R., Bok Tower Gardens, P.O. Box 3810, Lake Wales, Florida 33859-3810, United States. Received March 15, 1990.

donor id: CA-088940. **origin:** United States. **collected:** August 09, 1989. **collector:** Susan R. Wallace Robert Godfrey. **other id:** W6 9410. **group:** W6. **other id:** Ames 12992. **source:** NC-7. **group:** Ames. **locality:** Moist roadside ditch, near cypress head, on the north side of the road. 2.6 miles east of county line, Indian Pass Road on Hwy 30, Franklin County. **restricted:** RARE. Wild. Seed.

PI 561078. *Cicer anatolicum* Alef. FABACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

donor id: TU85-070-01. **origin:** Turkey. **collected:** August 05, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-070-01. **other id:** W6 9411. **group:** W6. **other id:** CS-13. **locality:** Nemrut Lake in volcanic crater among coppiced Populus trees, steep S facing slopes. South East corner of lake, Nemrut Dag, Bitlis Province. **latitude:** 38 deg. 36 min. N. **longitude:** 42 deg. 15 min. E. **elevation:** 2210-2250m. **remarks:** Plants common among rocks, perennial. Seeds, calyx red. Fruiting. Sperling Herbarium Voucher no. 6829. Wild. Seed.

PI 561079 to 561083. *Cicer arietinum* L. FABACEAE Chickpea

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

PI 561079 **donor id:** TU85-026-01. **origin:** Turkey. **collected:** July 18, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-026-01. **other id:** W6 9405. **group:** W6. **other id:** CS-7. **locality:** Cultivated field, in flower and fruit, steep ravine bank, 2km from Durankaya (19km W of Hakkari on road to Beytussebab), Caylica village, Hakkari Province. **latitude:** 37 deg. 43 min. N. **longitude:** 43 deg. 38 min. E. **remarks:** Sperling Herbarium Voucher no. 6785. Cultivated. Seed.

PI 561080 **donor id:** TU85-064-01. **origin:** Turkey. **collected:** August 03, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-064-01. **other id:** W6 9406. **group:** W6. **other id:** CS-8. **locality:** On road to Karahasan, level ground between lava flows. Cultivated field of Cicer. Soil not stoney. 1.5km S of Malazgirt, Mus Province. **latitude:** 39 deg. 08 min. N. **longitude:** 42 deg. 32 min. E. **elevation:** 1550m. **remarks:** Poor stand. Flowers white. Some plants with mature seed. Sperling Herbarium Voucher no. 6821. Cultivated. Seed.

PI 561079 to 561083-continued

- PI 561081 **donor id:** TU85-071-01. **origin:** Turkey. **collected:** August 09, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-071-01. **other id:** W6 9407. **group:** W6. **other id:** CS-9. **locality:** Roadside, level area between two small streams. Oak scrub on surrounding slopes. South of Bitlis, 4.0km, then 5.5km E just to the right on fork in road, Bitlis Province. **latitude:** 38 deg. 19 min. N. **longitude:** 42 deg. 07 min. E. **elevation:** 1500m. **remarks:** Prostrate and erect forms present in field. Soil ph 6.61. Sperling Herbarium Voucher no. 6841. Cultivated. Seed.
- PI 561082 **donor id:** TU85-085-01. **origin:** Turkey. **collected:** August 12, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-085-01. **other id:** W6 9408. **group:** W6. **other id:** CS-10. **locality:** Cultivated field of Cicer, lots of Glycyrrhiza in field as a weed. South west slope overlooking village, 0.5km E of Dogantepe, Mus Province. **latitude:** 39 deg. 06 min. N. **longitude:** 41 deg. 57 min. E. **elevation:** 1410m. **remarks:** Sperling Herbarium Voucher no. 6856. Cultivated. Seed.
- PI 561083 **donor id:** TU85-017-02. **origin:** Turkey. **collected:** July 15, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-017-02. **other id:** W6 9404. **group:** W6. **other id:** CS-6. **locality:** Cultivated field, open oak woods area, 15km E of Sirnak, Siirt Province. **latitude:** 37 deg. 29 min. N. **longitude:** 42 deg. 33 min. E. **remarks:** Cultivated chickpea. Collected from threshing pile before threshing. Sperling Herbarium Voucher no. 6762. Cultivated. Seed.

PI 561084. *Cicer oxyodon* Boiss. & Hohen. FABACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

donor id: TU85-021-01. **origin:** Turkey. **collected:** July 17, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-021-01. **other id:** W6 9409. **group:** W6. **other id:** CS-11. **locality:** Rocky woods, steep limestone slope, open scrub oak, military checkpoint at Durak village, 17km N of Semdinli, Hakkari Province. **latitude:** 37 deg. 24 min. N. **longitude:** 44 deg. 32 min. E. **elevation:** 1630m. **remarks:** Growing from between rocks in shade of oak trees, forming clumps from between rocks. Fruits explosively dehiscent. Sperling Herbarium Voucher no. 6775. Wild. Seed.

PI 561085 to 561086. *Lathyrus* sp. FABACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

PI 561085 **donor id:** TU85-069-02. **origin:** Turkey. **collected:** August 04, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-069-02. **other id:** W6 9422. **group:** W6. **other id:** CS-24. **locality:** Open oak forest and oak scrub in forest preserve, 6.5km E of Guroyimak, Bitlis Province. **latitude:** 38 deg. 34 min. N. **longitude:** 42 deg. 06 min. E. **elevation:** 1570m. **remarks:** Soil pH 6.95. Plants climbing on oak shoots and herbs. Sperling Herbarium Voucher no. 6826. Wild. Seed.

PI 561086 **donor id:** TU85-084-02. **origin:** Turkey. **local name:** Dervis Yoncasi ("Beggar's Alfalfa"). **collected:** August 12, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-084-02. **other id:** W6 9424. **group:** W6. **other id:** CS-26. **locality:** Small basin in area covered by lava flow. Soil developed here but mostly rock elsewhere. Little farming except around basin. On road from Varto to Yoncali, 19km E of Sanlica, Mus Province. **latitude:** 39 deg. 04 min. N. **longitude:** 41 deg. 47 min. E. **elevation:** 1440m. **remarks:** Soil pH 7.75. Deep rooted (perennial?). Legume occasional in wheat field. Only green plant remaining in field. Flowers blue. Sperling Herbarium Voucher no. 6855. Wild. Seed.

PI 561087. *Lens culinaris* Medikus FABACEAE Lentil

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

donor id: TU85-083-01. **origin:** Turkey. **collected:** August 12, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-083-01. **other id:** W6 9425. **group:** W6. **other id:** CS-27. **locality:** Bagici village, Mus Province. **latitude:** 39 deg. 06 min. N. **longitude:** 41 deg. 31 min. E. **elevation:** 1290m. **remarks:** Seeds collected from pile which had been threshed and then separated from foreign seeds by water flotation and sieving. Cultivated. Seed.

PI 561088 to 561090. *Lolium* sp. POACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

PI 561088 **donor id:** TU85-008-05. **origin:** Turkey. **collected:** June 20, 1985. **collector:** C.R. Sperling, H.H. Gecit. **collector id:** TU85-008-05. **other id:** W6 9426. **group:** W6. **other id:** CS-28. **locality:** Fine soil near riverbank (grazed). At edge of Triticum field (hand-sown) area, roadside and field margin. North side of road, just over bridge on road to Erüh, S of Siirt, Billoris village area, Siirt Province. **latitude:** 37 deg. 49 min. N. **longitude:** 41 deg. 52 min. E. **elevation:** 560m. Wild. Seed.

PI 561089 **donor id:** TU85-011-04. **origin:** Turkey. **collected:** July 13, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-011-04. **other id:** W6 9427. **group:** W6. **other id:** CS-29. **locality:** Dirt roadside and margin of *T. aestivum* (Lancer wheat) field. Flat floodplain, fine soil. Aspasian Devieturetme Cliftlig (Alpaslan St. Ag. Farm) 13km E and N of hwy, Mus Province. **latitude:** 38 deg. 49 min. N. **longitude:** 41 deg. 35 min. E. **elevation:** 1260m. **remarks:** Rust in spike and also smut replacing seed. Sperling Herbarium Voucher no. 6744. Wild. Seed.

PI 561088 to 561090-continued

PI 561090 **donor id:** TU85-031-02. **origin:** Turkey. **collected:** July 21, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-031-02. **other id:** W6 9428. **group:** W6. **other id:** CS-30. **locality:** Growing at edge of field and in barley field. Soil sandy, stoney. On road to Gevas on S side of road, 24km from Van, Bakimli village, Van Province. **latitude:** 38 deg. 22 min. N. **longitude:** 43 deg. 12 min. E. **elevation:** 1650m. **remarks:** Sperling Herbarium Voucher no. 6795. Wild. Seed.

PI 561091 to 561092. *Taeniatherum caput-medusae* subsp. *asperum*
(Simonkai) Meld. POACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

PI 561091 **donor id:** TU85-008-06. **origin:** Turkey. **collected:** June 20, 1985. **collector:** C.R. Sperling, H.H. Gecit. **collector id:** TU85-008-06. **other id:** W6 9432. **group:** W6. **other id:** CS-34. **locality:** At edge of Triticum field, hand sown. Fine soil near riverbank, grazed. South of Siirt. Just over bridge on road to Erüh, N side of road. Billoris village area, Siirt Province. **latitude:** 37 deg. 49 min. N. **longitude:** 41 deg. 52 min. E. **elevation:** 560m. Wild. Seed.

PI 561092 **donor id:** TU85-015-06. **origin:** Turkey. **collected:** July 15, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-015-06. **other id:** W6 9433. **group:** W6. **other id:** CS-35. **locality:** Rocky, limestone, wheat field, hand sown in October/November, being harvested now. Scrub oak region. South side of road, 2km W of Erüh, Siirt Province. **latitude:** 37 deg. 45 min. N. **longitude:** 42 deg. 10 min. E. **elevation:** 1100m. **remarks:** Bare soil areas at edge of field. Wild. Seed.

PI 561093 to 561095. *Taeniatherum caput-medusae* subsp. *crinitum*
(Schreber) Meld. POACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

PI 561093 to 561095-continued

PI 561093 **donor id:** TU85-022-01. **origin:** Turkey. **collected:** July 17, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-022-01. **other id:** W6 9434. **group:** W6. **other id:** CS-36. **locality:** Area of scrub oak on steep hillsides. Military checkpoint at Guzelkonak, 22km N of Semdinli, Hakkari Province. **latitude:** 37 deg. 25 min. N. **longitude:** 44 deg. 30 min. E. **elevation:** 1690m. **remarks:** Bare soil on SW slope adjacent to wheat field. Wild. Seed.

PI 561094 **donor id:** TU85-028-03. **origin:** Turkey. **local name:** Tasilk. **collected:** July 19, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-028-03. **other id:** W6 9435. **group:** W6. **other id:** CS-37. **locality:** Stoney slope above Zap River. Common at edges of field and bare soil of hillside, 5km S of jct road to Yuksekova, or 39km N of Hakkari, Hakkari Province. **latitude:** 37 deg. 53 min. N. **longitude:** 44 deg. 02 min. E. **elevation:** 1530m. Wild. Seed.

PI 561095 **donor id:** TU85-051-07. **origin:** Turkey. **local name:** Toslick. **collected:** July 30, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-051-07. **other id:** W6 9436. **group:** W6. **other id:** CS-38. **locality:** Steep grazed hills. Much bare, packed soil. On road to Tatvan from Van, 9km W of Van-Bitlis Province boundary, Bitlis Province. **latitude:** 38 deg. 23 min. N. **longitude:** 42 deg. 43 min. E. **elevation:** 1860m. **remarks:** Plants abundant in grazed areas. Wild. Seed.

PI 561096. *Bolusanthus speciosus* (Bolus) Harms FABACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

- * Boissiera squarrosa (Banks & Sol.) Nevski POACEAE
donor id: TU85-015-08. origin: Turkey. collected: July 15, 1985. collector: C.R. Sperling, D. Eser, H.H. Gecit. collector id: TU85-015-08. other id: W6 9401. group: W6. other id: CS-3. locality: Rocky limestone wheat field, oak scrub region, 2km W of Erüh on S side of road, Siirt Province. latitude: 37 deg. 45 min. N. longitude: 42 deg. 10 min. E. elevation: 1100m. remarks: Bare soil areas at edge of field. Looks like a bushy Aegilops. Wheat field planted in October/November, harvested July. Wheat field hand sown. received as: Bromus pumilio. Wild. Seed.

PI 561097 to 561098. Vigna sp. FABACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. remarks: A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

- * PI 561097 Lathyrus sp. FABACEAE
donor id: TU85-020-04. origin: Turkey. collected: July 17, 1985. collector: C.R. Sperling, D. Eser, H.H. Gecit. collector id: TU85-020-04. other id: W6 9417. group: W6. other id: CS-19. locality: South slope wheat fields, 4km S of Semdinli, Gunyazi village, Hakkari Province. latitude: 37 deg. 17 min. N. longitude: 44 deg. 36 min. E. elevation: 1430m. remarks: Germplasm from wheat threshing pile. Harvested with wheat. Most legumes attacked by insects. Wild. Seed.
- * PI 561098 Lathyrus sp. FABACEAE
donor id: TU85-021-03. origin: Turkey. collected: July 17, 1985. collector: C.R. Sperling, D. Eser, H.H. Gecit. collector id: TU85-021-03. other id: W6 9419. group: W6. other id: CS-21. locality: Steep limestone slope, open scrub oak, rocky woods, Military checkpoint at Durak village, 17km N of Semdinli, Hakkari Province. latitude: 37 deg. 24 min. N. longitude: 44 deg. 32 min. E. elevation: 1630m. remarks: Plants forming patches in sunny places between oaks. Insects in greener seeds. Sperling Herbarium Voucher no. 6777. Wild. Seed.

PI 561099. *Elymus* sp. POACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received January 1986.

donor id: TU85-077-03. **origin:** Turkey. **collected:** August 10, 1985. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU85-077-03. **other id:** W6 9412. **group:** W6. **other id:** CS-14. **locality:** Oak forest on steep NW slope, 3.2km from Kavak on the road from Mutki, Bitlis Province. **latitude:** 38 deg. 28 min. N. **longitude:** 41 deg. 50 min. E. **elevation:** 1460m. **remarks:** Growing in shade in oak forest. Soil ph 6.83. Sperling Herbarium Voucher no. 6847. Wild. Seed.

PI 561100 to 561102. *Cicer arietinum* L. FABACEAE Chickpea

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Services Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received October 15, 1989.

PI 561100 **donor id:** TU86-17-01. **origin:** Turkey. **collected:** July 10, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-17-01. **other id:** W6 9441. **group:** W6. **other id:** CS-43. **locality:** Chickpea field, soil reddish, 3.1km E of bridge over the Ulucay River on Siirt-Eruh road (3.6km W of Demirkaya), Siirt Province. **latitude:** 37 deg. 49 min. N. **longitude:** 41 deg. 54 min. E. **elevation:** 600m. **remarks:** Seed smaller than most chickpeas. Cultivated. Seed.

PI 561101 **donor id:** TU86-24-03. **origin:** Turkey. **collected:** July 10, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-24-03. **other id:** W6 9442. **group:** W6. **other id:** CS-44. **locality:** Cultivated field of chickpea, 1 km E of Eruh, on Eruh-Sirnak road, Siirt Province. **latitude:** 37 deg. 45 min. N. **longitude:** 42 deg. 12 min. E. **elevation:** 1070m. Cultivated. Seed.

PI 561102 **donor id:** TU86-25-01. **origin:** Turkey. **collected:** July 10, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-25-01. **other id:** W6 9443. **group:** W6. **other id:** CS-45. **locality:** Threshing pile, 22.5km W of Eruh, on Eruh-Siirt road, Oymakilic village, Siirt Province. **latitude:** 37 deg. 48 min. N. **longitude:** 42 deg. 00 min. E. **elevation:** 640m. Cultivated. Seed.

PI 561103. *Cicer oxyodon* Boiss. & Hohen. FABACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Services Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received October 15, 1989.

donor id: TU86-34-01. **origin:** Turkey. **collected:** July 16, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-34-01. **other id:** W6 9446. **group:** W6. **other id:** CS-48. **locality:** Open oak scrub forest on steep S facing scree slope above Pesan River, 2.6km N of Tekeli on road to Semdinli, Hakkari Province. **latitude:** 37 deg. 15 min. N. **longitude:** 44 deg. 39 min. E. **elevation:** 1430m. **remarks:** Perennial, abundant in full sun or shade. Fruits mostly green. Sperling Herbarium Voucher no. 6879. Wild. Seed.

PI 561104. *Elymus* sp. POACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Services Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received October 15, 1989.

donor id: TU86-37-02. **origin:** Turkey. **collected:** July 17, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-37-02. **other id:** W6 9413. **group:** W6. **other id:** CS-15. **locality:** Quercus/Fraxinus scrub forest on N facing slope, on road to Bembo, 10.4km W of Yuksekova-Semdinli road, Hakkari Province. **latitude:** 37 deg. 22 min. N. **longitude:** 44 deg. 27 min. E. **elevation:** 1440m. **remarks:** In shade. Common. Sperling Herbarium Voucher no. 6884. Perennial. Wild. Seed.

PI 561105. *Lens culinaris* Medikus FABACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Services Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received October 15, 1989.

donor id: TU86-16-07. **origin:** Turkey. **collected:** July 09, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-16-07. **other id:** W6 9447. **group:** W6. **other id:** CS-49. **locality:** Area of some scattered oak scrub and shallow agricultural valleys of reddish soils, 22.5km W of Pervari on Pervari-Siirt road, Ekinduzu village, Siirt Province. **latitude:** 37 deg. 56 min. N. **longitude:** 42 deg. 21 min. E. **elevation:** 1450m. **remarks:** Collected from farmer's storage. Cultivated. Seed.

PI 561106 to 561107. *Onobrychis viciifolia* Scop. FABACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Services Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received October 15, 1989.

PI 561106 **donor id:** TU86-43-03. **origin:** Turkey. **collected:** July 19, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-43-03. **other id:** W6 9429. **group:** W6. **other id:** CS-31. **locality:** Grazed E facing slope above Zap River, scattered *Ziziphus/Pistacia*, 10km S of junction to Yuksekova on Hakkari-Van road, Hakkari Province. **latitude:** 37 deg. 42 min. N. **longitude:** 43 deg. 58 min. E. **elevation:** 1450m. **remarks:** Field apparently harvested for seed crop. **received as:** *Onobrychus sativa*. Cultivated. Seed.

PI 561107 **donor id:** TU86-45-01. **origin:** Turkey. **collected:** July 19, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-45-01. **other id:** W6 9430. **group:** W6. **other id:** CS-32. **locality:** Level ground with fine silty soil. Wild and semi-domesticated legume meadow along stream, 8km S of Guzelsu (Hosap) on Van-Hakkari road, Van Province. **latitude:** 38 deg. 17 min. N. **longitude:** 43 deg. 51 min. E. **elevation:** 2000m. **remarks:** Perennial, appearing semi-wild. Flowers pink. Abundant. *Medicago sativa*, *Trifolium* (red and white-flowered), *Lotus corniculatus*, *Onobrychis sativa*, *Hordeum violaceum*, and *Astragalus* sp. present. Sperling Herbarium Voucher no. 6886. Wild. Seed.

PI 561108 to 561110. *Taeniatherum caput-medusae* subsp. *crinitum*
(Schreber) Meld. POACEAE

Donated by: Ankara University, Ankara, Turkey; and Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Services Lab., Rm. 329, Bldg. 001, BARC-West, Beltsville, Maryland 20705-2350, United States. **remarks:** A USDA sponsored collection in cooperation with Oregon State University and IBPGR. Received October 15, 1989.

PI 561108 **donor id:** TU86-12-04. **origin:** Turkey. **collected:** July 05, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit, A.A. Atchley. **collector id:** TU86-12-04. **other id:** W6 9437. **group:** W6. **other id:** CS-39. **locality:** In fine soil at edge of cultivated wheat field on Hakkari-Van road, 4.4km S of road junction to Yuksekova, Hakkari Province. **latitude:** 37 deg. 43 min. N. **longitude:** 44 deg. 01 min. E. **elevation:** 1490m. **remarks:** Plants abundant. Cultivated. Seed.

PI 561109 **donor id:** TU86-20-05. **origin:** Turkey. **collected:** July 10, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-20-05. **other id:** W6 9438. **group:** W6. **other id:** CS-40. **locality:** Ungrazed cemetery, large *Quercus/Pistacia* and hard limestone outcrops present, on Siirt-Eruh road, 0.4km E of Uzumluk (Paris) village center, Siirt Province. **latitude:** 37 deg. 46 min. N. **longitude:** 42 deg. 06 min. E. **elevation:** 920m. **remarks:** Common in disturbed areas. Wild. Seed.

PI 561110 **donor id:** TU86-31-01. **origin:** Turkey. **collected:** July 12, 1986. **collector:** C.R. Sperling, D. Eser, H.H. Gecit. **collector id:** TU86-31-01. **other id:** W6 9439. **group:** W6. **other id:** CS-41. **locality:** Grazed, scrub oak forest on rocky outcrops, about 1 km SW of Kayalibal village, 29km S of Bitlis on Bitlis-Baykan road, then 6km SE on road to Konalga, Bitlis Province. **latitude:** 38 deg. 12 min. N. **longitude:** 41 deg. 56 min. E. **elevation:** 1370m. **remarks:** Common. In disturbed soil among rocks. Wild. Seed.

PI 561111. *Trifolium reflexum* L. FABACEAE

Donated by: Pederson, G.A., Agricultural Research Service -- USDA, Crop Science Research Lab, P.O. Box 5367, Mississippi State, Mississippi 39762-5367, United States. Received June 11, 1991.

origin: United States. **cultivar:** MS-RF1. **collected:** July 08, 1991. **locality:** Talking Warrior Unit of the John W. Starr Memorial Forest, Highway 25, 6 miles south of Starkville, Oktibbeha County. **remarks:** Bulked from a random sample of approx. 200 plants. Flower color variation 5% red, 50% pink, and 45% white. Red-flowered plants shorter, less vigorous, and fewer flowers than white and pink-flowered plants. Wild. Seed.

PI 561112 to 561120. *Cucurbita okeechobeensis* (Small) L. Bailey
CUCURBITACEAE Okeechobee gourd

Donated by: Walters, T., Fairchild Tropical Garden, 11935 Old Cutler Road, Miami, Florida 33156, United States. Received June 11, 1991.

PI 561112 **donor id:** 0690. **origin:** United States. **collected:** January 31, 1991. **collector:** D.S. Decker-Walters, T.W. Walters. **collector id:** 0690. **locality:** Along canal shore, Torry Island, Lake Okeechobee, Palm Beach County. **latitude:** 26 deg. 44 min. N. **longitude:** 080 deg. 44 min. W. **restricted:** RARE. **remarks:** Fruits green and cream colored. Vines dried. **received as:** *Cucurbita okeechobeensis* subsp. *okeechobeensis*. Wild. Seed.

PI 561113 **donor id:** 0691. **origin:** United States. **collected:** January 31, 1991. **collector:** D.S. Decker-Walters, T.W. Walters. **collector id:** 0691. **locality:** Towards center of Torry Island in old agricultural area, Lake Okeechobee. **latitude:** 26 deg. 44 min. N. **longitude:** 080 deg. 44 min. W. **restricted:** RARE. **remarks:** Fruits green and cream colored. Vines dried. **received as:** *Cucurbita okeechobeensis* subsp. *okeechobeensis*. Wild. Seed.

PI 561114 **donor id:** 0692. **origin:** United States. **collected:** January 31, 1991. **collector:** D.S. Decker-Walters, T.W. Walters. **collector id:** 0692. **locality:** Inland on northeast side of island, South Shore Dynamite Hole Island, Lake Okeechobee. **latitude:** 26 deg. 42 min. N. **longitude:** 080 deg. 44 min. W. **restricted:** RARE. **remarks:** Fruits green and cream colored. Vines dried. **received as:** *Cucurbita okeechobeensis* subsp. *okeechobeensis*. Wild. Seed.

PI 561115 **donor id:** 0693. **origin:** United States. **collected:** January 31, 1991. **collector:** D.S. Decker-Walters, T.W. Walters. **collector id:** 0693. **locality:** South shore of island, South Shore Dynamite Hole Island, Lake Okeechobee. **latitude:** 26 deg. 42 min. N. **longitude:** 080 deg. 44 min. W. **restricted:** RARE. **remarks:** Fruits green and cream colored. Vines dried. **received as:** *Cucurbita okeechobeensis* subsp. *okeechobeensis*. Wild. Seed.

PI 561112 to 561120-continued

- PI 561116 **donor id:** 0694. **origin:** United States. **collected:** January 31, 1991. **collector:** D.S. Decker-Walters, T.W. Walters. **collector id:** 0694. **locality:** South shore of island, Bay Bottom Dynamite Hole Island, Lake Okeechobee. **latitude:** 26 deg. 41 min. N. **longitude:** 080 deg. 45 min. W. **restricted:** RARE. **remarks:** Fruits green and cream colored. Vines dried. **received as:** Cucurbita okeechobeensis subsp. okeechobeensis. Wild. Seed.
- PI 561117 **donor id:** 0695. **origin:** United States. **collected:** January 31, 1991. **collector:** D.S. Decker-Walters, T.W. Walters. **collector id:** 0695. **locality:** South shore of island, Bay Bottom Dynamite Hole Island, Lake Okeechobee. **latitude:** 26 deg. 42 min. N. **longitude:** 080 deg. 46 min. W. **restricted:** RARE. **remarks:** Fruits green and cream colored. Vines dried. **received as:** Cucurbita okeechobeensis subsp. okeechobeensis. Wild. Seed.
- PI 561118 **donor id:** 0696. **origin:** United States. **collected:** January 31, 1991. **collector:** D.S. Decker-Walters, T.W. Walters. **collector id:** 0696. **locality:** South shore of lake, south of Bay Bottom Dynamite Hole Island, Lake Okeechobee. **latitude:** 26 deg. 41 min. N. **longitude:** 080 deg. 45 min. W. **restricted:** RARE. **remarks:** Fruits green and cream colored. Vines dried. **received as:** Cucurbita okeechobeensis subsp. okeechobeensis. Wild. Seed.
- PI 561119 **donor id:** 0705. **origin:** United States. **collected:** February 12, 1991. **collector:** D.S. Decker-Walters, T.W. Walters. **collector id:** 0705. **locality:** Along western side of west canal on Ritta Island. **latitude:** 26 deg. 43 min. N. **longitude:** 080 deg. 49 min. W. **restricted:** RARE. **remarks:** Fruits green and cream colored. Vines dried. **received as:** Cucurbita okeechobeensis subsp. okeechobeensis. Wild. Seed.
- PI 561120 **donor id:** 0707. **origin:** United States. **collected:** February 12, 1991. **collector:** D.S. Decker-Walters, T.W. Walters. **collector id:** 0707. **locality:** West side of east canal on Torry Island, Lake Okeechobee. **latitude:** 26 deg. 43 min. N. **longitude:** 080 deg. 43 min. W. **restricted:** RARE. **remarks:** Fruits green and cream colored. Vines dried. **received as:** Cucurbita okeechobeensis subsp. okeechobeensis. Wild. Seed.

PI 561121. *Vigna radiata* (L.) R. Wilczek var. *radiata* FABACEAE Mung bean

Donated by: Liu, C.T., Idaho Agr. Exp. Sta., University of Idaho, Moscow, Idaho 83843, United States. Received June 11, 1991.

PI 561121-continued

origin: China. **collected:** September 19, 1991.
collector: C.T. Liu. **locality:** Heng Shui. Wild. Seed.

PI 561122. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE
Watermelon

Donated by: Liu, C.T., Idaho Agr. Exp. Sta., University of Idaho,
Moscow, Idaho 83843, United States. Received June 11, 1991.

origin: China. **collected:** September 19, 1991.
collector: C.T. Liu. **locality:** Heng Shui. **remarks:**
Diameter 8-10 inches. Wild. Seed.

PI 561123. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE

Donated by: Bouwkamp, J.C., Puerto Rico. Received June 11, 1991.

* *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
donor id: 224. **origin:** Puerto Rico. **cultivar:** COBRE.
collected: August 1979. **other id:** Q 21768. **other id:**
C3122. Cultivar. Cutting.

PI 561124 to 561125. *Chloris virgata* Sw. POACEAE

Donated by: Johnson, D.A., Agricultural Research Service -- USDA,
Forage and Range Research, Utah State University, Logan, Utah
84322-6300, United States; and Rumbaugh, M.D., Agricultural Research
Service -- USDA, Forage and Range Research, Utah State University,
Logan, Utah 84322-6300, United States. Received June 11, 1991.

PI 561124 **origin:** China. **collected:** August 26, 1991. **collector:**
D.A. Johnson, M.D. Rumbaugh. **other id:** W6 9546. **group:**
W6. **other id:** X910021. **locality:** Growing along field
margin, 18km W of Kashgar, Zamin Village, Shufu County.
latitude: 39 deg. 23 min. N. **longitude:** 075 deg. 51 min.
E. **elevation:** 1300m. **remarks:** Not a preferred forage
species. Wild. Seed.

PI 561125 **origin:** China. **collected:** September 01, 1991.
collector: D.A. Johnson, M.D. Rumbaugh. **other id:** W6
9547. **group:** W6. **other id:** X910059. **locality:** Growing
in ditch along highway, very dry area probably less than
50mm rainfall, 100km NE of Kashgar. **latitude:** 39 deg. 50
min. N. **longitude:** 077 deg. 00 min. E. **elevation:**
1219m. Wild. Seed.

PI 561126. *Digitaria sanguinalis* (L.) Scop. POACEAE

Donated by: Johnson, D.A., Agricultural Research Service -- USDA, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States; and Rumbaugh, M.D., Agricultural Research Service -- USDA, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received June 11, 1991.

origin: China. **local name:** Matong. **collected:** August 26, 1991. **collector:** D.A. Johnson, M.D. Rumbaugh. **other id:** W6 9548. **group:** W6. **other id:** X910026. **locality:** Along field margin, 12km SW of Kashgar, Wukeshake Village, Shufu County. **latitude:** 39 deg. 23 min. N. **longitude:** 075 deg. 51 min. E. **elevation:** 1300m. Wild. Seed.

PI 561127. *Ornithopus compressus* L. FABACEAE

Donated by: Kaiser, W.J., Agricultural Research Service -- USDA, Western Reg. PI Station, 59 Johnson Hall, Pullman, Washington 99164-6402, United States. Received June 11, 1991.

origin: Spain. **source history:** Seed originally from Australia. **cultivar:** PITMAN. **collected:** 1991. **other id:** W6 9521. **group:** W6. **remarks:** Seed obtained from Dr. J.M. Pozuelo Consejo, Madrid Spain. Seed has poor germination. Cultivar. Seed.

PI 561128. *Trifolium* sp. FABACEAE

Donated by: Kaiser, W.J., Agricultural Research Service -- USDA, Western Reg. PI Station, 59 Johnson Hall, Pullman, Washington 99164-6402, United States. Received June 11, 1991.

origin: Spain. **collected:** May 12, 1991. **other id:** W6 9523. **group:** W6. **locality:** Los Villares Park, Sierra Morena mountains, north of Cordoba. **elevation:** 300m. **remarks:** Seed collected from prostrate plants that appear to be annuals. Wild. Seed.

PI 561129 to 561132. *Cucurbita argyrosperma* C. Huber CUCURBITACEAE

Donated by: Wilson, H.D., Texas A&M University, Department of Biology, College Station, Texas 77843-3258, United States. Received June 11, 1991.

PI 561129 **donor id:** 325. **origin:** Mexico. **local name:** Pachona. **collected:** December 16, 1984. **collector:** Decker, Wilson, Bye. **collector id:** 325. **locality:** Seed store (El Trebol) across from market, Tehuacan. **elevation:** 1550m. Cultivated. Seed.

PI 561129 to 561132-continued

- PI 561130 **donor id:** 347. **origin:** Mexico. **local name:** Tamala. **collected:** December 19, 1984. **collector:** Decker, Wilson, Bye. **collector id:** 347. **locality:** From fruit pile on road to Zactepec Mixes, 9km E of Mitla. **elevation:** 1885m. **remarks:** Grown with *C. pepo* (346) and *C. moschata* (348). Flesh yellow green, blackish green near seeds. Cultivated. Seed.
- PI 561131 **donor id:** 337. **origin:** Mexico. **local name:** Chomba or Chompa. **collected:** December 18, 1984. **collector:** Decker, Wilson, Bye. **collector id:** 337. **locality:** Store on 20 de Noviembre near square. Seeds supposedly from locally grown squash. **elevation:** 1550m. Cultivated. Seed.
- PI 561132 **donor id:** 349. **origin:** Mexico. **local name:** Chompa. **collected:** December 19, 1984. **collector:** Decker, Wilson, Bye. **collector id:** 349. **locality:** From fruit pile on road to Zactepec Mixes, 9km E of Mitla. **elevation:** 1885m. **remarks:** Grown with *C. pepo* (346). Fruit elongate. Flesh pale green, brown near seeds. Cultivated. Seed.

PI 561133 to 561136. *Cucurbita moschata* (Duchesne) Poiret
CUCURBITACEAE

Donated by: Wilson, H.D., Texas A&M University, Department of Biology, College Station, Texas 77843-3258, United States.
Received June 11, 1991.

- PI 561133 **donor id:** 333. **origin:** Mexico. **local name:** Tamala. **collected:** December 18, 1984. **collector:** Decker, Wilson, Bye. **collector id:** 333. **locality:** Market (Mercado "Benito Juarez"). **elevation:** 1550m. Cultivated. Seed.
- PI 561134 **donor id:** 328-2. **origin:** Mexico. **local name:** Tamalayota. **collected:** December 17, 1984. **collector:** Decker, Wilson, Bye. **collector id:** 328-2. **locality:** From local garden, 22km SE of Tehuacan on H. 150, Ajalpan. **elevation:** 1125m. **remarks:** Flesh deep yellow, mustard green in center. Cultivated. Seed.
- PI 561135 **donor id:** 328-1. **origin:** Mexico. **local name:** Tamalayota. **collected:** December 17, 1984. **collector:** Decker, Wilson, Bye. **collector id:** 328-1. **locality:** From local garden, 22km SE of Tehuacan on H. 150, Ajalpan. **elevation:** 1125m. **remarks:** Flesh deep yellow, orange in center. Cultivated. Seed.

PI 561133 to 561136-continued

PI 561136 **donor id:** 326. **origin:** Mexico. **local name:** Chata, Chinchia, Chinche (smaller variety). **collected:** December 16, 1984. **collector:** Decker, Wilson, Bye. **collector id:** 326. **locality:** Seed store (El Trebol) across from market, Tehuacan. **elevation:** 1550m. Cultivated. Seed.

PI 561137. *Zornia* sp. FABACEAE

Donated by: Fay, J.M., Missouri Botanic Garden, P.O. Box 299, St. Louis, Missouri 63166-0299, United States. **remarks:** Received through IBPGR Mission to the Central African Republic, October-November 1989 in cooperation with Ministere des Eaux, Chases, Peche et Forets Bangui, B.P. 830. Received June 11, 1991.

donor id: 9137. **origin:** Central African Republic. **collected:** November 11, 1989. **collector:** J.M. Fay, D. Harris. **collector id:** 9137. **locality:** Clay soil in old gravel pit, woodland area, 40km E of Ippy, Cuaka Province. **latitude:** 06 deg. 10 min. N. **longitude:** 021 deg. 50 min. E. **elevation:** 560m. **remarks:** Random sampling of 30 plants/100 sq. meter area. Wild. Seed.

PI 561138. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE
Watermelon

Donated by: Whittemore, A.T., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received June 11, 1991.

donor id: 11. **origin:** Kazakhstan. **collected:** July 20, 1991. **collector:** A.T. Whittemore. **collector id:** 11. **locality:** Government store, Alma Ata. Cultivated. Seed.

PI 561139 to 561140. *Solanum melongena* L. SOLANACEAE

Donated by: Whittemore, A.T., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received June 11, 1991.

PI 561139 **donor id:** 37. **origin:** Kazakhstan. **collected:** July 20, 1991. **collector:** A.T. Whittemore. **collector id:** 37. **locality:** Government store, Alma Ata. Cultivated. Seed.

PI 561140 **donor id:** 36. **origin:** Kazakhstan. **collected:** July 20, 1991. **collector:** A.T. Whittemore. **collector id:** 36. **locality:** Government store, Alma Ata. Cultivated. Seed.

PI 561141. *Trifolium arvense* L. FABACEAE

Donated by: Whittemore, A.T., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received June 11, 1991.

donor id: 38. **origin:** Kazakhstan. **collected:** July 07, 1991. **collector:** A.T. Whittemore. **collector id:** 38. **locality:** Bolshoi Dalan Canyon, W of Alma. Cultivated. Seed.

PI 561142. *Lespedeza bicolor* Turcz. FABACEAE

Donated by: Hu, P., Department of Animal Science, Beijing Agricultural University, Beijing, China. Received June 11, 1991.

origin: China. **other id:** W6 7339. **group:** W6. **locality:** Hebei Province. Cultivated. Seed.

PI 561143. *Lespedeza daurica* (Laxm.) Schindler FABACEAE

Donated by: Hu, P., Department of Animal Science, Beijing Agricultural University, Beijing, China. Received June 11, 1991.

origin: China. **other id:** W6 7340. **group:** W6. **locality:** Hebei Province. Cultivated. Seed.

PI 561144. *Cucumis sativus* L. CUCURBITACEAE

Donated by: Northrup King & Co., 1500 Jackson N.E., Minneapolis, Minnesota 55413, United States. Received 1966.

origin: UNKNOWN. **cultivar:** POINSETT. Seed.

PI 561145. *Cucumis sativus* L. CUCURBITACEAE

Donated by: New York Agr. Exp. Sta., New York, United States. Received 1967.

origin: UNKNOWN. **cultivar:** MARKETMORE. Seed.

PI 561146 to 561147. *Cucumis sativus* L. CUCURBITACEAE

Donated by: Agway Inc., New York, United States. Received 1976.

PI 561146 **origin:** United States. **cultivar:** MARKETMORE 70. Seed.

PI 561147 **origin:** United States. **cultivar:** SPARTAN SALAD. Seed.

PI 561148. *Cucumis sativus* L. CUCURBITACEAE

Donated by: Munger, H. M., Dept. of Plant Breeding, Cornell University, Ithaca, New York 14853, United States. Received 1980.

origin: UNKNOWN. **cultivar:** MARKETMORE 76. **Seed.**

PI 561149. *Buchloe dactyloides* (Nutt.) Engelm. POACEAE Buffalograss

Donated by: Riordan, T.P., Nebraska Agr. Exp. Sta., University of Nebraska - Lincoln, Lincoln, Nebraska 68583-0724, United States; and United States Golf Association. **remarks:** 609 Buffalograss. Received May 04, 1992.

origin: United States. **developed:** T.P. Riordan, S.A. de Shazer, F.P. Baxendale, M.C. Engelke. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska - Lincoln, Lincoln, Nebraska 68583-0724 United States. **cultivar:** 609. **pedigree:** Selection from progeny of Soil Conservation Service selection 1321.1. **other id:** CV-151. **source:** Crop Sci. 32(6):1511 1992. **group:** CSR-OTHER GRASSES. **other id:** NE 84-609. **restricted:** CSR. **remarks:** Fine texture, excellent color, low growth habit and an ability to stay greener later into the fall than most other warm-season buffalograss. Very drought tolerant. Resistant to most insect and disease pests. Requires less fertilizer (5-10g N/M² growing season), less mowing, less water and less pesticides than both cool and warm-season turfgrasses currently in use. Single, female sel. produced vegetatively by sod, plugs or sprigs. Does not produce pollen or viable seed, genetically stable. Water use rate is less than other commonly cultivated turfgrass species. Perennial. Cultivar. Plant.

PI 561150. *Gaultheria adenothrix* (Miq.) Maxim. ERICACEAE Salal

Donated by: Shimura, Isao, Tokyo University of Ag. & Technology, Faculty of Agriculture, Fuchu, Tokyo, Japan. Received April 08, 1983.

origin: Japan. **source history:** Seedlot collected wild by Shimura and received at NCGR- Corvallis I. Shimura, Tokyo University, Japan. **pedigree:** Collected from the wild in Japan. **collector:** I. Shimura. **locality:** Mt. Shirane, Nagano Prefecture. **latitude:** 36 deg. 15 min. N. **longitude:** 138 deg. W. Perennial. Wild. Seed.

PI 561151 to 561152. *Gaultheria hispidula* (L.) Muhlenb. ERICACEAE
Salal

Donated by: Hummer, K.E., USDA/ARS/NGR-Corvallis, 33447 Peoria Road,
Corvallis, Oregon, United States. Received October 01, 1990.

PI 561151 **origin:** United States. **source history:** Collected wild by
Hummer and received at NCGR-Corvallis Dr. Kim E. Hummer,
Curator/Research Leader, NCGR-Corvallis. **pedigree:**
Collected from the wild in New Hampshire. **collected:**
September 1990. **collector:** K.E. Hummer. **locality:**
Dixville Notch, rock ledges both sides of road thru
notch. **latitude:** 44 deg. 25 min. N. **longitude:** 71 deg.
17 min. W. **remarks:** Type with small ovoid leaves, no
fruits found. Assoc. *F. virginiana*, sphagnum, *Rubus*.
Perennial. Wild. Plant.

PI 561152 **origin:** United States. **source history:** Collected wild by
Hummer and received at NCGR-Corvallis Dr. Kim E. Hummer,
Curator/Research Leader, NCGR-Corvallis. **pedigree:**
Collected from the wild in Vermont. **collected:** September
1990. **collector:** K.E. Hummer. **locality:** Franklin
Natural Area of the Nature Conservancy, Rt. 120.
latitude: 44 deg. 55 min. N. **longitude:** 72 deg. 55 min.
W. **elevation:** 125m. **remarks:** This plant looks strongly
like that found at Dixville Notch (CGAU 18) in NH at
equivalent latitude. Perennial. Wild. Plant.

PI 561153. *Gaultheria humifusa* (Graham) Rydb. ERICACEAE Salal

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

origin: United States. **source history:** Seedlot collected
wild by Ballington and Luby and received at
NCGR-Corvallis J. Ballington, North Carolina State
University, Raleigh. **pedigree:** Collected from the wild
in Oregon. **local name:** Oregon Wintergreen. **collected:**
July 27, 1985. **collector:** Ballington and Luby.
locality: Winema Nat'l Forest along roadsides in cutover
area, boggy. **latitude:** 42 deg. 30 min. N. **longitude:**
122 deg. W. **elevation:** 1810m. **remarks:** Red-fruited,
ground-cover type. Perennial. Wild. Seed.

PI 561154. *Gaultheria humifusa* (Graham) Rydb. ERICACEAE Salal

Donated by: Berry Botanic Gardens, Portland, Oregon, United States.
Received January 14, 1988.

origin: United States. **source history:** Seedlot collected wild to the Berry Botanic Gardens and received at NCGR-Corvallis Berry Botanic Gardens, Portland, Oregon. **pedigree:** Collected from the wild in Oregon. **local name:** Oregon Wintergreen. **locality:** Eastern slope, Oregon Cascades. **latitude:** 44 deg. N. **longitude:** 122 deg. W. Perennial. Wild. Seed.

PI 561155. *Gaultheria miqueliana* Takeda ERICACEAE Salal

Donated by: Shimura, Isao, Tokyo University of Ag. & Technology, Faculty of Agriculture, Fuchu, Tokyo, Japan. Received April 08, 1983.

origin: Japan. **source history:** Seedlot collected wild by Shimura and received at NCGR- Corvallis I. Shimura, Tokyo University, Japan. **pedigree:** Collected from the wild in Japan. **collector:** I. Shimura. **locality:** Mt. Shirane, Nagano Prefecture. **latitude:** 36 deg. 15 min. N. **longitude:** 138 deg. E. Perennial. Wild. Seed.

PI 561156 to 561157. *Gaultheria ovatifolia* A. Gray ERICACEAE Salal

Donated by: Ballington, J.R., North Carolina State University, Dept. Horticulture, Raleigh, North Carolina, United States. Received August 10, 1984.

PI 561156 **origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon United States. **source history:** Seedlot collected wild by Ballington and Luby, clone selected at NGR-Corvallis J. Ballington, North Carolina State University, Raleigh. **pedigree:** Seedling selection from wild Oregon seedlot CGAU 31. **local name:** Oregon Wintergreen. Perennial. Breeding Material. Plant.

PI 561157 **origin:** United States. **source history:** Seedlot collected wild by Ballington and Luby and recieved at NGR-Corvallis J. Ballington, North Carolina State University, Raleigh. **pedigree:** Collected from the wild in Oregon. **local name:** Oregon Wintergreen. **collected:** August 01, 1983. **collector:** Ballington and Luby. **locality:** Willamett National Forest, along roadbank. **latitude:** 44 deg. N. **longitude:** 122 deg. W. **elevation:** 850m. **remarks:** See CGAU 8 (PL,SD breakout) Population sample, partially ripe. Perennial. Wild. Seed.

PI 561158. *Gaultheria ovatifolia* A. Gray ERICACEAE Salal

Donated by: Berry Botanic Gardens, Portland, Oregon, United States.
Received January 14, 1988.

origin: United States. **source history:** Seedlot collected wild to Berry Botanic Gardens and received at NCGR-Corvallis Berry Botanic Gardens, Portland, Oregon.
pedigree: Collected from the wild in Washington.
locality: Western slope, Washington Cascades. **latitude:** 47 deg. N. **longitude:** 122 deg. W. Perennial. Wild. Seed.

PI 561159. *Gaultheria ovatifolia* A. Gray ERICACEAE Salal

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

origin: United States. **source history:** Seed collected wild to Berry Botanic Gardens and received at NCGR-Corvallis Berry Botanic Garden, Portland, Oregon.
pedigree: Collected from the wild in Oregon. **local name:** Oregon Wintergreen. **locality:** Along the western slopes and crest of the Oregon Cascades. **latitude:** 44 deg. N. **longitude:** 122 deg. W. Perennial. Wild. Seed.

PI 561160. *Gaultheria phillyreifolia* (Pers.) Sleumer ERICACEAE Salal

Donated by: Cameron, Scott, Washington State University, SW Washington Research Station, Vancouver, Washington, United States.
Received February 25, 1992.

origin: Chile. **origin institute:** Washington State University, SW Washington Research Unit, Vancouver, Washington United States. **source history:** Collected wild by Cameron et al. and received at NGR- Corvallis Dr. Scott Cameron, SW Wash. Res. Sta., Vancouver. **cultivar:** 2 PAL 2E. **pedigree:** Selected from the wild from Chile. **collected:** February 1992. **collector:** Scott Cameron et al.. Perennial. Breeding Material. Seed.

PI 561161. *Gaultheria phillyreifolia* (Pers.) Sleumer ERICACEAE Salal

Donated by: Cameron, Scott, Washington State University, SW Washington Research Station, Vancouver, Washington, United States.
Received February 25, 1992.

PI 561161-continued

origin: Chile. **origin institute:** Washington State University, SW Washington Research Unit, Vancouver, Washington United States. **source history:** Collected wild by Cameron et al. and received at NGR- Corvallis Dr. Scott Cameron, SW Wash. Res. Sta., Vancouver. **cultivar:** 2 LIP 1A. **pedigree:** Selected from the wild from Chile. **collected:** February 1992. **collector:** Scott Cameron et al.. Perennial. Breeding Material. Seed.

PI 561162. *Gaultheria procumbens* L. ERICACEAE Salal

Donated by: Rombough, Lon, Aurora, Oregon, United States. Received December 18, 1989.

origin: United States. **developed:** E.M. Meader. **source history:** Plants received from Meader to Lon Rombough to NCGR- Corvallis. Original seedlot collected by Meader Lon J. Rombough, NCGR-Corvallis. **pedigree:** Seedling selection from seed collected wild in NH. **remarks:** This selection should be heavy bearer w/large fruit. Perennial. Breeding Material. Plant.

PI 561163 to 561164. *Gaultheria shallon* Pursh ERICACEAE Salal

Donated by: Westwood, M.N., USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received September 08, 1983.

PI 561163 **origin:** United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon United States. **source history:** Seedlot collected wild by Westwood, clone selected at NGR- Corvallis M.N. Westwood, NCGR-Corvallis/Oregon State University. **pedigree:** Seedling selection from wild Oregon seedlot CGAU 30. **local name:** Oregon Wintergreen. Perennial. Breeding Material. Plant.

PI 561164 **origin:** United States. **source history:** Seedlot collected wild by Westwood and received at NGR- Corvallis M.N. Westwood, NGR-Corvallis/Oregon State University. **pedigree:** Collected from the wild in Oregon. **local name:** Oregon Wintergreen. **collected:** September 05, 1983. **collector:** M.N. Westwood. **locality:** Moist bank at Foster Reservoir. **latitude:** 44 deg. 45 min. N. **longitude:** 122 deg. 30 min. W. **elevation:** 500m. **remarks:** See CGAU 5 (PL,SD breakout). Perennial. Wild. Seed.

PI 561165. Gaultheria shallon Pursh ERICACEAE Salal

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

origin: United States. **source history:** Seedlot collected wild by Ballington and Luby and received at NCGR-Corvallis J. Ballington, North Carolina State Univ., Raleigh. **pedigree:** Collected from the wild in Washington. **collected:** August 08, 1985. **collector:** Ballington and Luby. **locality:** Olympic National Forest, along roadside. **latitude:** 48 deg. N. **longitude:** 124 deg. W. **elevation:** 400m. **remarks:** Population collection. Perennial. Wild. Seed.

PI 561166. Gaultheria shallon Pursh ERICACEAE Salal

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

origin: United States. **source history:** Seedlot collected by Ballington and Luby and received at NCGR-Corvallis J. Ballington, North Carolina State University, Raleigh. **pedigree:** Collected from the wild in Washington. **collector:** Ballington and Luby. **locality:** Olympic Nat'l Forest, Falls View Campground. **latitude:** 48 deg. N. **longitude:** 124 deg. W. **elevation:** 120m. **remarks:** Population sample. Perennial. Wild. Seed.

PI 561167. Gaultheria shallon Pursh ERICACEAE Salal

Donated by: Pirzio-Biroli, Jan, Washington Park Arboretum, Seattle, Washington, United States. Received May 03, 1989.

origin: United States. **source history:** Seed collected wild to Washington Park Arboretum and received at NCGR-Corvallis Dr. Jan Pirzio-Biroli, Washington Park Arboretum, Seattle. **pedigree:** Collected from the wild in Washington. **locality:** Island County, Whidbey Island, WA. **latitude:** 47 deg. 30 min. N. **longitude:** 122 deg. 30 min. W. **elevation:** 30m. Perennial. Wild. Seed.

PI 561168. Gaultheria sp. ERICACEAE Salal

Donated by: Jahn, Otto, USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received April 08, 1983.

PI 561168-continued

origin: France. **source history:** Seedlot collected wild by Lantin to Otto Jahn to NCGR- Corvallis Otto Jahn, NCGR-Corvallis. **pedigree:** Collected from the wild in France. **collector:** B. Lantin. **latitude:** 47 deg. N. **longitude:** 03 deg. E. Perennial. Wild. Seed.

PI 561169. *Eriobotrya deflexa* (Hemsley) Nakai ROSACEAE Loquat

Donated by: Tsai, Dr., Taiwan National University, Meifeng Farm, Taipei, Taiwan. Received April 08, 1983.

origin: Taiwan. **source history:** Seedlot collected wild by Tsai and recieved at NCGR- Corvallis Dr. Tsai, Taiwan National University, Taipei. **pedigree:** Collected from the wild in Taiwan. **collected:** November 1981. **collector:** Dr. Tsai. **latitude:** 24 deg. N. **longitude:** 121 deg. E. **elevation:** 2000m. Perennial. Wild. Seed.

PI 561170. *Eriobotrya japonica* (Thunb.) Lindley ROSACEAE Loquat

Donated by: Johnson, Marie, Ontario, California, United States. Received June 09, 1983.

origin: United States. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon United States. **source history:** Seedlot collected from backyard in California by Johnson, clone selected at NGR-Corvallis Marie Johnson, Ontario, California. **pedigree:** Seedling selection from OP seed of unnamed cultivar. **remarks:** Original seed collected from parent plant of CERI 2 and 3. Perennial. Breeding Material. Plant.

PI 561171 to 561177. *Eriobotrya japonica* (Thunb.) Lindley ROSACEAE Loquat

Donated by: Nelson, W.L., Pacific Tree Farms, Chula Vista, California, United States. Received May 16, 1990.

PI 561171 **origin:** United States. **source history:** Received from Pacific Tree Farms to NCGR-Corvallis W.L. Nelson, Pacific Tree Farms, Chula Vista, California. **cultivar:** Advance. **remarks:** No additional information provided upon receipt. Perennial. Cultivar. Plant.

PI 561171 to 561177-continued

- PI 561172 **origin:** United States. **source history:** Received from Pacific Tree Farms to NCGR-Corvallis W.L. Nelson, Pacific Tree Farms, Chula Vista, California. **cultivar:** Champagne. **remarks:** No additional information provided upon receipt. Perennial. Cultivar. Plant.
- PI 561173 **origin:** United States. **source history:** Received from Pacific Tree Farms to NCGR-Corvallis W.L. Nelson, Pacific Tree Farms, Chula Vista, California. **cultivar:** Gold Nugget. **remarks:** No additional information provided upon receipt. Perennial. Cultivar. Plant.
- PI 561174 **origin:** United States. **source history:** Received from Pacific Tree Farms to NCGR-Corvallis W.L. Nelson, Pacific Tree Farms, Chula Vista, California. **cultivar:** Magi. **remarks:** No additional information provided upon receipt. Perennial. Cultivar. Plant.
- PI 561175 **origin:** United States. **source history:** Received from Pacific Tree Farms to NCGR-Corvallis W.L. Nelson, Pacific Tree Farms, Chula Vista, California. **cultivar:** Mrs. Cooksey. **remarks:** No additional information provided upon receipt. Perennial. Cultivar. Plant.
- PI 561176 **origin:** United States. **source history:** Received from Pacific Tree Farms to NCGR-Corvallis W.L. Nelson, Pacific Tree Farms, Chula Vista, California. **cultivar:** Ben Lehr. **remarks:** No additional information provided upon receipt. Perennial. Cultivar. Plant.
- PI 561177 **origin:** United States. **source history:** Received from Pacific Tree Farms to NCGR-Corvallis W.L. Nelson, Pacific Tree Farms, Chula Vista, California. **cultivar:** Strawberry. **remarks:** No additional information provided upon receipt. Perennial. Cultivar. Plant.

PI 561178. *Eriobotrya* sp. ROSACEAE Loquat

Donated by: Veauvy, J.M., Artur Nogueira, Brazil. Received April 05, 1990.

origin: Brazil. **source history:** Collected wild by Veauvy and received at NCGR-Corvallis J.M. Veauvy, Artur Nogueira, Brazil. **pedigree:** Collected from the wild in Brazil. **collected:** March 1990. **collector:** Jean Marie Veauvy. **locality:** Near Sao Roque. **latitude:** 05 deg. 30 min. S. **longitude:** 35 deg. 16 min. W. **elevation:** 1100m. Perennial. Wild. Cutting.

PI 561179. *Eriobotrya* sp. ROSACEAE Loquat

Donated by: Moore, R.M., Loja, Ecuador. Received January 30, 1991.

origin: Ecuador. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon United States. **source history:** Original seedlot received from Moore, clone selected at NGR-Corvallis Ruth Marie Moore, Loja, Ecuador. **pedigree:** Seedling selection from OP seed from Ecuador. **remarks:** Seedlot collected from native plants in the village of Tumianuma. Perennial. Breeding Material. Plant.

PI 561180 to 561181. *Eriobotrya* sp. ROSACEAE Loquat

Donated by: Recher, Paul, Fruit Spirit Botanical Garden, Darrowby, New South Wales, Australia. Received August 12, 1991.

PI 561180 **origin:** Australia. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon United States. **source history:** Original seedlot received from Recher, clone selected at NGR-Corvallis Paul Recher, Fruit Spirit Botanical Garden, Australia. **pedigree:** Seedling selection from OP seed of cultivar 'Bessel Brown'. **remarks:** Fruits large, 40-50 gr. Perennial. Breeding Material. Plant.

PI 561181 **origin:** Australia. **origin institute:** USDA/ARS/NGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon United States. **source history:** Original seedlot received from Recher, clone selected at NGR-Corvallis Paul Recher, Fruit Spirit Botanical Garden, Australia. **pedigree:** Seedling selection from OP seed of cultivar 'Quambi'. **remarks:** Fruits 25 gr, excellent flavored. Perennial. Breeding Material. Plant.

PI 561182. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Brinker Orsetti Seed Company, Inc., United States; and Summit Seeds, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** Brinker Orsetti Seed Company, Inc., Summit Seeds, Inc. United States. **cultivar:** ULTRA GREEN. **other id:** PVP 9200143. **source:** Certificate in force. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561183. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Southern States Cooperative, Inc., United States. Received May 05, 1992.

PI 561183-continued

origin: United States. **origin institute:** Southern States Cooperative, Inc. United States. **cultivar:** SS 461. **other id:** PVP 9200144. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561184. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Dahlgren & Company, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** Dahlgren & Company, Inc. United States. **cultivar:** D97 MAINTAINER. **other id:** PVP 9200145. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561185. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Dahlgren & Company, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** Dahlgren & Company, Inc. United States. **cultivar:** H21 MAINTAINER. **other id:** PVP 9200146. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561186. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Dahlgren & Company, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** Dahlgren & Company, Inc. United States. **cultivar:** R091. **other id:** PVP 9200147. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561187. *Pisum sativum* L. FABACEAE Pea

Donated by: Rogers NK Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Rogers NK Seed Company United States. **cultivar:** PW 624-2-1-2. **other id:** PVP 9200148. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561188. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Ferry-Morse Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Ferry-Morse Seed Company United States. **cultivar:** GILABEN. **other id:** PVP 9200149. **source:** Certificate in force. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561189. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Northrup King Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** COKER 9105. **other id:** PVP 9200151. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561190. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Northrup King Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** COKER 9543. **other id:** PVP 9200152. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561191. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Company, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** Jacob Hartz Seed Company, Inc. United States. **cultivar:** H4464. **other id:** PVP 9200153. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561192. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by: Barenbrug Holding, United States. Received May 05, 1992.

origin: United States. **origin institute:** Barenbrug Holding United States. **cultivar:** BARTITIA. **other id:** PVP 9200154. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561193. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Barenbrug Holding, United States. Received May 05, 1992.

origin: United States. **origin institute:** Barenbrug Holding United States. **cultivar:** BARISTRA. **other id:** PVP 9200155. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561194. *Carthamus tinctorius* L. ASTERACEAE Safflower

Donated by: Research and Development Institute, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** Research and Development Institute, Inc. United States. **cultivar:** MORLIN. **other id:** PVP 9200156. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561195. *Brassica oleracea* var. *botrytis* L. BRASSICACEAE Cauliflower

Donated by: Ferry-Morse Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Ferry-Morse Seed Company United States. **cultivar:** SNOWCONE. **other id:** PVP 9200157. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561196. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Arthur Yates & Company, Pty. Ltd., Australia. Received May 05, 1992.

origin: Australia. **origin institute:** Arthur Yates & Company, Pty. Ltd. Australia. **cultivar:** IMPACT. **other id:** PVP 9200158. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561197. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Pioneer Hi-Bred International, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** 2737W. **other id:** PVP 9200159. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561198. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received May 05, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** WBA 963A5.
other id: PVP 9200160. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 561199. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received May 05, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** WBB031E1.
other id: PVP 9200161. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 561200. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received May 05, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** WBB441D1.
other id: PVP 9200162. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 561201. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Asgrow Seed Company United States. **cultivar:** A2242. **other id:** PVP 9200163. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561202. *Phaseolus vulgaris* L. FABACEAE Field bean

Donated by: Gen-Tec Seeds, Ltd., Canada. Received May 05, 1992.

origin: Canada. **origin institute:** Gen-Tec Seeds, Ltd. Canada. **cultivar:** BLACKJACK. **other id:** PVP 9200164. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561203. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Dahlgren and Company, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** Dahlgren and Company, Inc. United States. **cultivar:** H24 MAINTAINER. **other id:** PVP 9200165. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561204. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: Marshall, D., Texas Agr. Exp. Sta., Texas A&M University REC, Dallas, Texas 75252, United States. **remarks:** Tambar 500 Barley. Received May 05, 1992.

origin: United States. **developed:** D. Marshall, J.H. Gardenhire, B.A. Shafer, K.B. Porter, M.D. Lazar, M.E. McDaniel, L.R. Nelson, W.D. Worrall. **origin institute:** Texas Agr. Exp. Sta., Texas A&M University REC, 17360 Coit Rd., Dallas, Texas 75252 United States. **cultivar:** TAMBAR 500. **pedigree:** TAMBAR 402 / TX75D1966. **other id:** PVP 9200167. **source:** Pending. **group:** PVPO. **other id:** CV-234. **group:** CSR-BARLEY. **restricted:** CSR. **patent:** PVPO. **remarks:** Six-rowed, rough awn, hulled, medium-to-late maturing winter feed barley. Juvenile plants have semi-prostrate growth habit. Covered kernels have colorless aleurone and slightly wrinkled on the dorsal side. Good winterhardiness. Moderately strong straw. Height medium. Resistant to powdery mildew, leaf rust, and greenbug. Tolerant to barley yellow dwarf virus. Moderately susceptible to net blotch, spot blotch, stem rust, and stripe rust. Susceptible to loose smut. Winter Annual. Cultivar. Seed.

PI 561205. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** S12-22. **other id:** PVP 9200168. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561206. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received May 05, 1992.

PI 561206-continued

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** S24-92. **other id:** PVP 9200169. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561207. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** S25-07. **other id:** PVP 9200170. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561208. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** S28-01. **other id:** PVP 9200171. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561209. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** S35-35. **other id:** PVP 9200172. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561210. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** S38-83. **other id:** PVP 9200173. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561211. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ciba-Geigy Seeds Division, United States. Received May 05, 1992.

origin: United States. **origin institute:** Ciba-Geigy Seeds Division United States. **cultivar:** 3172. **other id:** PVP 9200174. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561212. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ciba-Geigy Seeds Division, United States. Received May 05, 1992.

origin: United States. **origin institute:** Ciba-Geigy Seeds Division United States. **cultivar:** 3202. **other id:** PVP 9200175. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561213. *Phaseolus vulgaris* L. FABACEAE Field bean

Donated by: Gentec, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** Gentec, Inc. United States. **cultivar:** CRAN 09. **other id:** PVP 9200176. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561214. *Lathyrus odoratus* L. FABACEAE Sweetpea

Donated by: Pan American Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Pan American Seed Company United States. **cultivar:** BOUQUET MID-BLUE. **other id:** PVP 9200177. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561215. *Lathyrus odoratus* L. FABACEAE Sweetpea

Donated by: Pan American Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Pan American Seed Company United States. **cultivar:** BOUQUET SALMON CREAM PINK. **other id:** PVP 9200178. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561216. *Lathyrus odoratus* L. FABACEAE Sweetpea

Donated by: Pan American Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Pan American Seed Company United States. **cultivar:** BOUQUET SCARLET. **other id:** PVP 9200179. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561217. *Lathyrus odoratus* L. FABACEAE Sweetpea

Donated by: Pan American Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Pan American Seed Company United States. **cultivar:** BOUQUET WHITE. **other id:** PVP 9200180. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561218. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Asgrow Seed Company United States. **cultivar:** A5560. **other id:** PVP 9200181. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561219. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received May 05, 1992.

origin: United States. **origin institute:** Asgrow Seed Company United States. **cultivar:** A5885. **other id:** PVP 9200182. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561220. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: AgriPro Biosciences, Inc., United States. Received May 05, 1992.

origin: United States. **origin institute:** AgriPro Biosciences, Inc., Kansas 66204 United States.
cultivar: LAREDO. **pedigree:** Colt/Victory. **other id:** PVP 9200184. **source:** Pending. **group:** PVPO. **patent:** PVPO.
remarks: Laredo is a high yielding, short semidwarf variety with strong straw and midseason maturity. Milling and baking properties are acceptable. It is well adapted to the states of Kansas, Nebraska, and Colorado. It seems especially adapt irrigated production. Laredo provides good protection to the currently prevalent races of stem and leaf rust. Cultivar. Seed.

PI 561221 to 561225. *Arachis hypogaea* subsp. *fastigiata* Waldron
FABACEAE

Donated by: Williams, D.E., Agricultural Research Service -- USDA, National Germplasm Resources Lab, Bldg. 003, 4th Floor, Beltsville, Maryland 20705-2350, United States. Received January 14, 1991.

PI 561221 **origin:** Bolivia. **local name:** mani amarillo (Spanish), janide marabi (Tacana). **collected:** August 11, 1990. **collector:** D.E. Williams. **other id:** Grif 978. **locality:** Carmen Florida, Ballivian Province, Beni Dept. **latitude:** 14 deg. 30 min. S. **longitude:** 67 deg. 30 min. W. **elevation:** 235m. **remarks:** Plants erect, 30cm tall. Fruits 4-6cm long, slender, thin shelled, fairly straight or curved, little or no constriction, with humps, beak, keel. Reticulation marked. Containing 4 pale yellow seeds. Pegs green. Stems green. Flowers bi-colored. Cultivated on sandy riverine beaches. Rare. An off-type found in collector No. 1144 which has Valencia pods with red seed. **received as:** *A. hypogaea* subsp. *fastigiata* var. *fastigiata*. Cultivated. Seed.

PI 561222 **origin:** Bolivia. **local name:** mani peruano (Spanish), janide ritchiritchi (Tacana). **collected:** August 11, 1990. **collector:** D.E. Williams. **other id:** Grif 979. **locality:** Carmen Florida, Ballivian Province, Beni Dept. **latitude:** 14 deg. 30 min. S. **longitude:** 67 deg. 30 min. W. **elevation:** 235m. **remarks:** Plants erect, 40cm tall. Fruits 4-4.5cm long, fairly straight, little or no constriction, with humps, keel, slight beak. Stems green. Pegs purple. Flowers orange with purple lines on wings and standard. Reticulation very sharp with longitudinal veins outstanding, containing 3-4 deep purple seeds. Cultivated on sandy riverine beaches. Rare. An off-type found in collector No. 1145 which has yellowish seed. **received as:** *A. hypogaea* subsp. *fastigiata* var. *peruviana*. Cultivated. Seed.

PI 561221 to 561225-continued

PI 561223 **origin:** Bolivia. **local name:** mani blanco (Spanish), janide pashane (Tacana). **collected:** August 11, 1990. **collector:** D.E. Williams. **other id:** Grif 980. **locality:** Carmen Florida, Ballivian Province, Beni Dept. **latitude:** 14 deg. 30 min. S. **longitude:** 67 deg. 30 min. W. **elevation:** 235m. **remarks:** Plants erect, large, 50cm tall. Fruits large 5-6cm long, bulky, thick shelled, fairly straight or curved. Little or no constriction. Pronounced humps, beak, some with keel. Reticulation evident but subdued, containing 4 large creamy white seeds which turn pinkish with age. Commonly cultivated on sandy riverine beaches. An off-type found in collector No. 1146 which has red Valencia seed. **received as:** *A. hypogaea* subsp. *fastigiata* var. *fastigiata*. Cultivated. Seed.

PI 561224 **origin:** Bolivia. **local name:** mani colorado (Spanish), janide derena (Tacana). **collected:** November 09, 1990. **collector:** D.E. Williams. **other id:** Grif 982. **locality:** Carmen Florida, Ballivian Province, Beni Dept. **latitude:** 14 deg. 30 min. S. **longitude:** 67 deg. 30 min. W. **elevation:** 235m. **remarks:** Fruits 3.5-5.5cm long, fairly straight, little or no constriction, humps and beak. Reticulation shallow and rounded to almost smooth, containing 3-4 red seeds. Cultivated on sandy beaches of Rio Beni, Common. An off-type found in collector No. 1170 which has a Valencia pod with yellow seed. **received as:** *A. hypogaea* subsp. *fastigiata* var. *fastigiata*.. Cultivated. Seed.

PI 561225 **origin:** Bolivia. **local name:** mani colorado (Spanish), janide derena (Tacana). **collected:** November 09, 1990. **collector:** D.E. Williams. **other id:** Grif 983. **locality:** Carmen Florida, Ballivian Province, Beni Dept. **latitude:** 14 deg. 30 min. S. **longitude:** 67 deg. 30 min. W. **elevation:** 235m. **remarks:** Fruits 3.5-5.5cm long, fairly straight, little or no constriction, humps and beak. Reticulation shallow and rounded to almost smooth, containing 3-4 red seeds. Cultivated on sandy beaches of Rio Beni. Common. An off-type found in collector No. 1170 which has a Valencia pod with tan seed. **received as:** *A. hypogaea* subsp. *fastigiata* var. *fastigiata*. Cultivated. Seed.

PI 561226. *Arachis hypogaea* L. subsp. *hypogaea* FABACEAE

Donated by: Williams, D.E., Agricultural Research Service -- USDA, National Germplasm Resources Lab, Bldg. 003, 4th Floor, Beltsville, Maryland 20705-2350, United States. Received January 14, 1991.

PI 561226-continued

origin: Bolivia. **local name:** mani. **collected:** September 10, 1990. **collector:** D.E. Williams. **other id:** Grif 981. **locality:** Rurrenabaque. **latitude:** 14 deg. 28 min. S. **longitude:** 67 deg. 34 min. W. **elevation:** 227m. **remarks:** Fruits 3-4cm long, straight, little or no constriction, humps, slight keel and beak. Reticulation deep but not sharp, containing 2-3 reddish-brown seeds. Said to be grown locally. An off-type found in collector no. 1148 which has yellow seed. **received as:** *A. hypogaea* subsp. *hypogaea* var. *hypogaea*. Cultivated. Seed.

PI 561227 to 561242. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Lim, S.L., Agricultural Research Service -- USDA, Univ. of Illinois, Dept. of Plant Path., 1102 S. Goodwin Avenue, Urbana, Illinois 66801, United States. Received April 21, 1992.

- PI 561227 **donor id:** L90P-3605-5. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561228 **donor id:** L90P-3607-4. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561229 **donor id:** L90P-3608-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561230 **donor id:** L90P-3610-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561231 **donor id:** L90P-3611-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561232 **donor id:** L90P-3612-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561233 **donor id:** L90P-3613-2. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561234 **donor id:** L90P-3637-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561235 **donor id:** L90P-3640-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561236 **donor id:** L90P-3641-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561237 **donor id:** L90P-3643-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.

PI 561227 to 561242-continued

- PI 561238 **donor id:** L90P-3646-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561239 **donor id:** L90P-3648-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561240 **donor id:** L90P-3663-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561241 **donor id:** L90P-3666-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.
- PI 561242 **donor id:** L90P-3668-1. **origin:** China. **locality:** Market, Beijing. Cultivated. Seed.

PI 561243. *Ipomoea alba* L. CONVOLVULACEAE Moonflower

Donated by: Jarret, R.L., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received April 20, 1992.

donor id: J106. **origin:** Ecuador. **collected:** January 1992. **collector:** R.L. Jarret. **collector id:** J106. **locality:** Catamayo, Loja Province. **elevation:** 1000m. Wild. Seed.

PI 561244 to 561245. *Ipomoea asarifolia* (Desr.) Roemer & Schultes
CONVOLVULACEAE

Donated by: Jarret, R.L., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received April 20, 1992.

- PI 561244 **donor id:** DLP 5286. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5286. **other id:** AU 7805. **locality:** Andres Vera-Embotell Coca Cola, Porto Viejo, Manabi Province. **latitude:** 01 deg. 10 min. S. **longitude:** 080 deg. 28 min. W. **elevation:** 60m. Wild. Seed.
- PI 561245 **donor id:** DLP 5294. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5294. **other id:** AU 7813. **locality:** Las Playas, Guayaquil, Guayas Province. **latitude:** 02 deg. 12 min. S. **longitude:** 080 deg. 58 min. W. **elevation:** 40m. Wild. Seed.

PI 561246 to 561261. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Yam

Donated by: Jarret, R.L., Agricultural Research Service -- USDA,
Southern Regional PI Station, 1109 Experiment Street, Griffin,
Georgia 30223-1797, United States. Received April 20, 1992.

- * PI 561246 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Yam
donor id: DLP 5282. **origin:** Ecuador. **collected:** January
1992. **collector:** D.F. Austin, R.L. Jarret, F. De La
Puente, Eng. C.G. Tapia. **collector id:** DLP 5282. **other**
id: AU 7801. **locality:** Entr Esmeralda D Rosa Zarate,
Esmeralda, Esmeraldas Province. **latitude:** 00 deg. 57
min. S. **longitude:** 079 deg. 40 min. W. **elevation:** 80m.
Cultivated. Seed.

- * PI 561247 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Yam
donor id: DLP 5283. **origin:** Ecuador. **collected:** January
1992. **collector:** D.F. Austin, R.L. Jarret, F. De La
Puente, Eng. C.G. Tapia. **collector id:** DLP 5283. **other**
id: AU 7802. **locality:** Entr A Sua D Esmeralda, Sua,
Esmeraldas, Province. **latitude:** 00 deg. 52 min. S.
longitude: 079 deg. 10 min. W. **elevation:** 5m.
Cultivated. Seed.

- * PI 561248 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Yam
donor id: DLP 5284. **origin:** Ecuador. **collected:** January
1992. **collector:** D.F. Austin, R.L. Jarret, F. De La
Puente, Eng. C.G. Tapia. **collector id:** DLP 5284. **other**
id: AU 7803. **locality:** Km 5 Ant D Esmeralda Quininde,
Esmeralda, Esmeraldas Province. **latitude:** 00 deg. 50
min. S. **longitude:** 079 deg. 45 min. W. **elevation:** 60m.
Cultivated. Seed.

- * PI 561249 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Yam
donor id: DLP 5285. **origin:** Ecuador. **collected:** January
1992. **collector:** D.F. Austin, R.L. Jarret, F. De La
Puente, Eng. C.G. Tapia. **collector id:** DLP 5285. **other**
id: AU 7804. **locality:** Km 74.5 Esmeralda-Quininde,
Quininde, Esmeraldas Province. **latitude:** 00 deg. 30 min.
S. **longitude:** 079 deg. 30 min. W. **elevation:** 120m.
Cultivated. Seed.

- * PI 561250 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Yam
donor id: DLP 5287. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5287. **other id:** AU 7806. **locality:** Km 6.7 Porto Viejo-Manta, Porto Viejo, Manabi Province. **latitude:** 01 deg. 05 min. S. **longitude:** 080 deg. 37 min. W. **elevation:** 110m. Cultivated. Seed.
- * PI 561251 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Yam
donor id: DLP 5290. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5290. **other id:** AU 7809. **locality:** Guadalupe, Juan Montalvo, Los Rios Province. **latitude:** 01 deg. 10 min. S. **longitude:** 079 deg. 02 min. W. **elevation:** 10m. Cultivated. Seed.
- * PI 561252 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Yam
donor id: DLP 5291. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5291. **other id:** AU 7810. **locality:** Balsabamba, San Miguel, Bolivar Province. **latitude:** 08 deg. 40 min. S. **longitude:** 078 deg. 56 min. W. **elevation:** 880m. Cultivated. Seed.
- * PI 561253 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Yam
donor id: DLP 5292. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5292. **other id:** AU 7811. **locality:** Tenimbil-Tablas De Pandaso, Columa, Bolivar Province. **latitude:** 01 deg. 50 min. S. **longitude:** 078 deg. 56 min. W. **elevation:** 350m. Cultivated. Seed.
- * PI 561254 *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Yam
donor id: DLP 5293. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5293. **other id:** AU 7812. **locality:** Guayaquil Desvio Julio Moreno, Guayaquil, Guayas Province. **latitude:** 02 deg. 05 min. S. **longitude:** 080 deg. 05 min. W. **elevation:** 40m. Cultivated. Seed.

PI 561246 to 561261-continued

- * PI 561255 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Yam
donor id: DLP 5296. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5296. **other id:** AU 7815. **locality:** Via Julio Moreno, Guayaquil, Guayas Province. **latitude:** 02 deg. 04 min. S. **longitude:** 080 deg. 05 min. W. **elevation:** 80m. Cultivated. Seed.
- * PI 561256 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Yam
donor id: AU 7798. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin. **collector id:** AU 7798. **locality:** Santo Domingo, Esmeralda Province. **elevation:** 100m. Cultivated. Seed.
- * PI 561257 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Yam
donor id: AU 7816. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin. **collector id:** AU 7816. **locality:** Naranjal, Guayas Province. **elevation:** 150m. Cultivated. Seed.
- * PI 561258 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Yam
donor id: AU 7817. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin. **collector id:** AU 7817. **locality:** El Guabo, El Oro Province. **elevation:** 150m. Cultivated. Seed.
- * PI 561259 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Yam
donor id: AU 7820. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin. **collector id:** AU 7820. **locality:** Machala, El Oro Province. **elevation:** 80m. Cultivated. Seed.
- * PI 561260 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Yam
donor id: AU 7821. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin. **collector id:** AU 7821. **locality:** Cangonoma', Loja Province. **elevation:** 2000m. Cultivated. Seed.
- * PI 561261 Ipomoea batatas (L.) Lam. var. batatas CONVOLVULACEAE
Yam
donor id: AU 7823. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin. **collector id:** AU 7823. **locality:** Puyango, Loja Province. **elevation:** 1400m. Cultivated. Seed.

PI 561262 to 561263. *Ipomoea carnea* Jacq. CONVOLVULACEAE

Donated by: Jarret, R.L., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received April 20, 1992.

PI 561262 **donor id:** J116. **origin:** Ecuador. **collected:** January 1992. **collector:** R.L. Jarret. **collector id:** J116. **locality:** Porto Viejo, Manabi Province. **elevation:** 110m. Wild. Seed.

PI 561263 **donor id:** J117. **origin:** Ecuador. **collected:** January 1992. **collector:** R.L. Jarret. **collector id:** J117. **locality:** Julio Moreno, Guayas Province. **elevation:** 40m. Wild. Seed.

PI 561264. *Ipomoea incarnata* (M. Vahl) Choisy CONVOLVULACEAE

Donated by: Jarret, R.L., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received April 20, 1992.

donor id: DLP 5295. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5295. **other id:** AU 7814. **locality:** Km 105 Guayaquil-Salinas, Guayaquil, Guayas Province. **latitude:** 02 deg. 20 min. S. **longitude:** 080 deg. 42 min. W. **elevation:** 40m. Wild. Seed.

PI 561265. *Ipomoea pes-caprae* (L.) R. Br. CONVOLVULACEAE Beach morning-glory

Donated by: Jarret, R.L., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received April 20, 1992.

donor id: DLP 5281. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5281. **locality:** Las Palmas, Esmeralda, Esmeraldas Province. **latitude:** 00 deg. 58 min. S. **longitude:** 079 deg. 40 min. W. **elevation:** 2m. Wild. Seed.

PI 561266. *Ipomoea rubens* Choisy CONVOLVULACEAE

Donated by: Jarret, R.L., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received April 20, 1992.

PI 561266-continued

donor id: DLP 5289. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5289. **other id:** AU 7808. **locality:** Hda Clementina, Babahoto, Los Rios Province. **latitude:** 02 deg. 08 min. S. **longitude:** 079 deg. 10 min. W. **elevation:** 10m. **Wild. Seed.**

PI 561267 to 561269. *Ipomoea triloba* L. CONVOLVULACEAE

Donated by: Jarret, R.L., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received April 20, 1992.

PI 561267 **donor id:** DLP 5280. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5280. **other id:** AU 7799. **locality:** La Independencia, Rosa Zarate, Esmeraldas Province. **latitude:** 00 deg. 05 min. S. **longitude:** 079 deg. 30 min. W. **elevation:** 180m. **restricted:** WEED. **Wild. Seed.**

PI 561268 **donor id:** DLP 5288. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin, R.L. Jarret, F. De La Puente, Eng. C.G. Tapia. **collector id:** DLP 5288. **other id:** AU 7807. **locality:** La Olla, Babahoto, Los Rios Province. **latitude:** 01 deg. 40 min. S. **longitude:** 079 deg. 30 min. W. **elevation:** 20m. **restricted:** WEED. **Wild. Seed.**

PI 561269 **donor id:** AU 7819. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin. **collector id:** AU 7819. **locality:** Machala, El Oro Province. **elevation:** 80m. **restricted:** WEED. **Wild. Seed.**

PI 561270. *Ipomoea vargasiana* O'Don. CONVOLVULACEAE

Donated by: Jarret, R.L., Agricultural Research Service -- USDA, Southern Regional PI Station, 1109 Experiment Street, Griffin, Georgia 30223-1797, United States. Received April 20, 1992.

donor id: AU 7822. **origin:** Ecuador. **collected:** January 1992. **collector:** D.F. Austin. **collector id:** AU 7822. **locality:** Poltas, Loja Province. **elevation:** 980m. **Wild. Seed.**

PI 561271. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Soybean Institute, Nanjing Agricultural University, Department of Agronomy, Nanjing, China. **remarks:** Received through H. Yunzhu. Received May 04, 1992.

origin: China. **cultivar:** Pei xian da quing dou.
Cultivated. Seed.

PI 561272 to 561282. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Botanical Gardens, Voronezh State University, Department of Genetics, Voronezh 394693, Russian Federation. **remarks:** Received through Alesander V. Lavlinsky and Andrey U. Iganberdiev. Received May 04, 1992.

PI 561272 **origin:** USSR. **cultivar:** No. 11. **other id:** NS-62.
Cultivated. Seed.

PI 561273 **origin:** USSR. **cultivar:** No. 45. **other id:** GS-242.
Cultivated. Seed.

PI 561274 **origin:** USSR. **cultivar:** No. 85. **other id:** GYA-220.
Cultivated. Seed.

PI 561275 **origin:** USSR. **cultivar:** No. 107. **other id:** NSL-74.
Cultivated. Seed.

PI 561276 **origin:** USSR. **cultivar:** No. 111. **other id:** GSL-221.
Cultivated. Seed.

PI 561277 **origin:** USSR. **cultivar:** No. 113. **other id:** GSL-223.
Cultivated. Seed.

PI 561278 **origin:** USSR. **cultivar:** No. 114. **other id:** GSL-227.
Cultivated. Seed.

PI 561279 **origin:** USSR. **cultivar:** No. 132(1). **other id:** 29-41/16.
Cultivated. Seed.

PI 561280 **origin:** USSR. **cultivar:** No. 133. **other id:** 10-45/3.
Cultivated. Seed.

PI 561281 **origin:** USSR. **cultivar:** Salut-216. Cultivated. Seed.

PI 561282 **origin:** USSR. **cultivar:** Yantarnaya. Cultivated. Seed.

PI 561283 to 561285. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Department of Agriculture, Animal Husbandry and Fishery, Heilongjiang, China. **remarks:** Received through S. Jia, Deputy Director. Received May 04, 1992.

PI 561283 to 561285-continued

PI 561283 **origin:** China. **cultivar:** Hei nong No. 33. Cultivated. Seed.

PI 561284 **origin:** China. **cultivar:** Hei nong No. 34. Cultivated. Seed.

PI 561285 **origin:** China. **cultivar:** Hei nong No. 35. Cultivated. Seed.

PI 561286 to 561294. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Asian Vegetable Research and Development, Taiwan.

remarks: Received through Dr. M. Rangappa, Virginia State University, Petersburg, Virginia, 23803. Received May 04, 1992.

PI 561286 **origin:** Taiwan. **cultivar:** AGS 269. Cultivated. Seed.

PI 561287 **origin:** Taiwan. **cultivar:** AGS 290. Cultivated. Seed.

PI 561288 **origin:** Taiwan. **cultivar:** AGS 293. Cultivated. Seed.

PI 561289 **origin:** Taiwan. **cultivar:** AGS 314. Cultivated. Seed.

PI 561290 **origin:** Taiwan. **cultivar:** Blue Side. Cultivated. Seed.

PI 561291 **origin:** Taiwan. **cultivar:** G9053. Cultivated. Seed.

PI 561292 **origin:** Taiwan. **cultivar:** G10134. Cultivated. Seed.

PI 561293 **origin:** Taiwan. **cultivar:** GC-84126-P-4-1-8. Cultivated. Seed.

PI 561294 **origin:** Taiwan. **cultivar:** KVS 124. Cultivated. Seed.

PI 561295 to 561350. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Institute of Crop Germplasm Resources, Chinese Academy of Agricultural Sciences, Beijing, China. Received May 04, 1992.

PI 561295 **origin:** China. **cultivar:** An tu zi hua lu da dou. **other id:** 00015. Cultivated. Seed.

PI 561296 **origin:** China. **cultivar:** Ba yan shui li shan. **other id:** 00016. Cultivated. Seed.

PI 561297 **origin:** China. **cultivar:** Bai hua cuo. **other id:** 00017. Cultivated. Seed.

PI 561298 **origin:** China. **cultivar:** Bai hua cuo zi. **other id:** 00018. Cultivated. Seed.

PI 561295 to 561350-continued

- PI 561299 **origin:** China. **cultivar:** Bai hua yao. **other id:** 00019.
Cultivated. Seed.
- PI 561300 **origin:** China. **cultivar:** Bai ke qing. **other id:** 00020.
Cultivated. Seed.
- PI 561301 **origin:** China. **cultivar:** Bai lu dou. **other id:** 00021.
Cultivated. Seed.
- PI 561302 **origin:** China. **cultivar:** Bai mao shuang. **other id:**
00022. Cultivated. Seed.
- PI 561303 **origin:** China. **cultivar:** Bai mai. **other id:** 00023.
Cultivated. Seed.
- PI 561304 **origin:** China. **cultivar:** Bai nong 1 hao. **other id:**
00024. Cultivated. Seed.
- PI 561305 **origin:** China. **cultivar:** Hei nong 24 hao. **other id:**
00219. Cultivated. Seed.
- PI 561306 **origin:** China. **cultivar:** Hei nong 25 hao. **other id:**
00220. Cultivated. Seed.
- PI 561307 **origin:** China. **cultivar:** Hei nong 26 hao. **other id:**
00221. Cultivated. Seed.
- PI 561308 **origin:** China. **cultivar:** Hei pi qing rang. **other id:**
00222. Cultivated. Seed.
- PI 561309 **origin:** China. **cultivar:** Hua feng 1 hoa. **other id:**
00245. Cultivated. Seed.
- PI 561310 **origin:** China. **cultivar:** Huai de hei dou. **other id:**
00249. Cultivated. Seed.
- PI 561311 **origin:** China. **cultivar:** Huai de si li huang. **other id:**
00251. Cultivated. Seed.
- PI 561312 **origin:** China. **cultivar:** Huai de xiao bai mei. **other**
id: 00253. Cultivated. Seed.
- PI 561313 **origin:** China. **cultivar:** Huang qi. **other id:** 00265.
Cultivated. Seed.
- PI 561314 **origin:** China. **cultivar:** Huang qi tie jia. **other id:**
00267. Cultivated. Seed.
- PI 561315 **origin:** China. **cultivar:** Hui chun da dou. **other id:**
00269. Cultivated. Seed.

PI 561295 to 561350-continued

- PI 561316 **origin:** China. **cultivar:** Hui jia zi. **other id:** 00271.
Cultivated. Seed.
- PI 561317 **origin:** China. **cultivar:** Hui nan bai hua tie jia. **other id:** 00273. Cultivated. Seed.
- PI 561318 **origin:** China. **cultivar:** Hui nan bai hua xiao hei. **other id:** 00274. Cultivated. Seed.
- PI 561319 **origin:** China. **cultivar:** Hui nan zi hua he jia. **other id:** 00285. Cultivated. Seed.
- PI 561320 **origin:** China. **cultivar:** Hui nan zi hua hei dou. **other id:** 00286. Cultivated. Seed.
- PI 561321 **origin:** China. **cultivar:** Hui nan zi hua xiao hei d. **other id:** 00287. Cultivated. Seed.
- PI 561322 **origin:** China. **cultivar:** Hui tie jia. **other id:** 00288. Cultivated. Seed.
- PI 561323 **origin:** China. **cultivar:** Hui tie jia. **other id:** 00289. Cultivated. Seed.
- PI 561324 **origin:** China. **cultivar:** Hun jiang da hin huang. **other id:** 00290. Cultivated. Seed.
- PI 561325 **origin:** China. **cultivar:** Ji an du li dou. **other id:** 00291. Cultivated. Seed.
- PI 561326 **origin:** China. **cultivar:** Ji lin 2 hao. **other id:** 00293. Cultivated. Seed.
- PI 561327 **origin:** China. **cultivar:** Ji lin 3 hao. **other id:** 00294. Cultivated. Seed.
- PI 561328 **origin:** China. **cultivar:** Jian dou. **other id:** 00316. Cultivated. Seed.
- PI 561329 **origin:** China. **cultivar:** Jiang ye dou. **other id:** 00317. Cultivated. Seed.
- PI 561330 **origin:** China. **cultivar:** Jiao he bai hua xiao bai. **other id:** 00318. Cultivated. Seed.
- PI 561331 **origin:** China. **cultivar:** Jiao he xiao hei dou. **other id:** 00320. Cultivated. Seed.
- PI 561332 **origin:** China. **cultivar:** Jiao he zi hua 1 hao. **other id:** 00321. Cultivated. Seed.

PI 561295 to 561350-continued

- PI 561333 **origin:** China. **cultivar:** Jiao he zi hua xiao bai d. **other id:** 00322. Cultivated. Seed.
- PI 561334 **origin:** China. **cultivar:** Jin dou 34 hao. **other id:** 00324. Cultivated. Seed.
- PI 561335 **origin:** China. **cultivar:** Man cang jin. **other id:** 00377. Cultivated. Seed.
- PI 561336 **origin:** China. **cultivar:** Man di jin. **other id:** 00378. Cultivated. Seed.
- PI 561337 **origin:** China. **cultivar:** Mao dou. **other id:** 00379. Cultivated. Seed.
- PI 561338 **origin:** China. **cultivar:** Mi shan tie jia qing. **other id:** 00380. Cultivated. Seed.
- PI 561339 **origin:** China. **cultivar:** Mian yan. **other id:** 00381. Cultivated. Seed.
- PI 561340 **origin:** China. **cultivar:** Miao pu. **other id:** 00382. Cultivated. Seed.
- PI 561341 **origin:** China. **cultivar:** Mu feng 1 hao. **other id:** 00383. Cultivated. Seed.
- PI 561342 **origin:** China. **cultivar:** Mu feng 2 hao. **other id:** 00384. Cultivated. Seed.
- PI 561343 **origin:** China. **cultivar:** Mu feng 3 hao. **other id:** 00385. Cultivated. Seed.
- PI 561344 **origin:** China. **cultivar:** Mu feng 4 hao. **other id:** 00386. Cultivated. Seed.
- PI 561345 **origin:** China. **cultivar:** Yi tong lu da dou. **other id:** 00568. Cultivated. Seed.
- PI 561346 **origin:** China. **cultivar:** Yi tong man cang jin. **other id:** 00569. Cultivated. Seed.
- PI 561347 **origin:** China. **cultivar:** Yi wo feng. **other id:** 00570. Cultivated. Seed.
- PI 561348 **origin:** China. **cultivar:** Yi wo liang. **other id:** 00571. Cultivated. Seed.
- PI 561349 **origin:** China. **cultivar:** Yong feng dou. **other id:** 00574. Cultivated. Seed.

PI 561295 to 561350-continued

PI 561350 **origin:** China. **cultivar:** Yong ji gun zhong da dou.
other id: 00575. Cultivated. Seed.

PI 561351 to 561354. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Heilongjiang Academy of Agr. Sciences, Heilongjiang, China. **remarks:** Received through Dr. M. Rangappa, Virginia State University, Petersburg, Virginia 23803. Received May 04, 1992.

PI 561351 **origin:** China. **cultivar:** Hei nong No. 33. Cultivated. Seed.

PI 561352 **origin:** China. **cultivar:** He feng No. 25. Cultivated. Seed.

PI 561353 **origin:** China. **cultivar:** Hei he No. 3. Cultivated. Seed.

PI 561354 **origin:** China. **cultivar:** Zi hua No. 4. Cultivated. Seed.

PI 561355. *Glycine soja* Siebold & Zucc. FABACEAE Wild soybean

Donated by: Heilongjiang Academy of Agr. Sciences, Heilongjiang, China. **remarks:** Received through Dr. M. Rangappa, Virginia State University, Petersburg, Virginia 23803. Received May 04, 1992.

origin: China. **cultivar:** ZYD 403. **other id:** 79-1809. Cultivated. Seed.

PI 561356 to 561359. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Soybean Research Institute, Nanjing Agricultural University, Nanjing, China. **remarks:** Received through Dr. M. Rangappa, Virginia State University, Petersburg, Virginia 23803. Received May 04, 1992.

PI 561356 **origin:** China. **cultivar:** Jin yun dou. **other id:** N 1589. Cultivated. Seed.

PI 561357 **origin:** China. **cultivar:** Ping hu cu huang dou. **other id:** N 1831. Cultivated. Seed.

PI 561358 **origin:** China. **cultivar:** Ping non dou. **other id:** N 1535-1. Cultivated. Seed.

PI 561359 **origin:** China. **cultivar:** Qui dou. **other id:** N 2957-1. Cultivated. Seed.

PI 561360 to 561365. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Miyazaki, S., Natl. Inst. of Agrobiological Resources, Kannondai, Tsukuba, Ibaraki 305, Japan. **remarks:** Received through T.E. Carter, USDA-ARS, North Carolina State University, Box 7631, Raleigh, North Carolina 27695, and R. Boerma, University of Georgia, Dept. of Agronomy, Athens, Georgia 30602. Received May 04, 1992.

PI 561360 **origin:** Japan. **source history:** Cushin Agr. Exp. Sta.. **cultivar:** Gedenshirazu. Cultivated. Seed.

PI 561361 **origin:** Japan. **source history:** Cushin Agr. Exp. Sta.. **cultivar:** Tosan 75. Cultivated. Seed.

PI 561362 **origin:** Japan. **source history:** Cushin Agr. Exp. Sta.. **cultivar:** Tosan 93. Cultivated. Seed.

PI 561363 **origin:** Japan. **source history:** Cushin Agr. Exp. Sta.. **cultivar:** Tosankei NA144. Cultivated. Seed.

PI 561364 **origin:** Japan. **source history:** Cushin Agr. Exp. Sta.. **cultivar:** Tosankei NA614. Cultivated. Seed.

PI 561365 **origin:** Japan. **source history:** Cushin Agr. Exp. Sta.. **cultivar:** Tosankei NA793. Cultivated. Seed.

PI 561366 to 561382. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Provided by various institutions, China. **remarks:** Received through T.E. Carter, USDA-ARS, North Carolina State University, Box 7631, Raleigh, North Carolina 27695-7631. Received May 04, 1992.

PI 561366 **origin:** China. **origin institute:** Academy of Science, Anda Experiment Station of Heilongjiang, Heilongjiang China. **cultivar:** Anfeng No. 1. **remarks:** Maturity group 1. Cultivated. Seed.

PI 561367 **origin:** China. **cultivar:** Sui nong No. 4. **remarks:** Maturity group 2. Cultivated. Seed.

PI 561368 **origin:** China. **cultivar:** Suiheng No. 25. **locality:** Farmers field near Siuhua City. **remarks:** Maturity group 1. Cultivated. Seed.

PI 561369 **origin:** China. **locality:** Experimental from Siuhua City. Collected in farmer field #2. **remarks:** Maturity group 1. Cultivated. Seed.

PI 561370 **origin:** China. **cultivar:** Fendou No. 14 hao. **locality:** Fenyang Experiment Station in West, Shanxi Province. **remarks:** Maturity group 3. Cultivated. Seed.

PI 561366 to 561382-continued

- PI 561371 **origin:** China. **cultivar:** Fendou No. 15 hao. **locality:** Fenyang Experiment Station in West, Shanxi Province. **remarks:** Maturity group 3. Cultivated. Seed.
- PI 561372 **origin:** China. **cultivar:** Fendou No. 33 hao. **locality:** Fenyang Experiment Station in West, Shanxi Province. **remarks:** Maturity group 3. Cultivated. Seed.
- PI 561373 **origin:** China. **cultivar:** Fendou No. 34 hao. **locality:** Fenyang Experiment Station in West, Shanxi Province. **remarks:** Maturity group 3. Cultivated. Seed.
- PI 561374 **origin:** China. **cultivar:** Ninzheng No. 1. **remarks:** Maturity group 2-3. Spring type. Cultivated. Seed.
- PI 561375 **origin:** China. **cultivar:** Qi huang No. 1. **remarks:** Maturity group 4. Summer type. Cultivated. Seed.
- PI 561376 **origin:** China. **cultivar:** Xu dou No. 1. **remarks:** Maturity group 4. Summer type. Cultivated. Seed.
- PI 561377 **origin:** Japan. **cultivar:** Chohakuzan. **locality:** Azuma Natto factory, Japan. **remarks:** Maturity group 1. Chinese Natto variety. Seed screened for small seed after harvest. Cultivated. Seed.
- PI 561378 **origin:** China. **cultivar:** Guanyun da hei dun. **remarks:** Maturity group 3. Spring type. Cultivated. Seed.
- PI 561379 **origin:** China. **cultivar:** Sudoi No. 1. **locality:** Nanjing. **remarks:** Maturity group 3. Summer type. Cultivated. Seed.
- PI 561380 **origin:** China. **cultivar:** Qingyuan da qingdou. **remarks:** Summer type. Cultivated. Seed.
- PI 561381 **origin:** China. **cultivar:** Shangrao da qingsi. **remarks:** Summer type. Cultivated. Seed.
- PI 561382 **origin:** China. **cultivar:** Shangrao wan qingsi. **remarks:** Summer type. Cultivated. Seed.

PI 561383 to 561393. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Provided by various institutions, Japan. **remarks:** Received through T.E. Carter, USDA-ARS, North Carolina State University, Box 7631, Raleigh, North Carolina 27695-7631. Received May 04, 1992.

PI 561383 to 561393-continued

- PI 561383 **origin:** Japan. **origin institute:** Gomei Soji Company, Ltd. Japan. **cultivar:** Akiyoshi. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for soyfoods including tofu. Last grown in Clayton, NC, in 1988. Cultivated. Seed.
- PI 561384 **origin:** Japan. **origin institute:** Nagano Prefecture Agr. Exp. Sta. Japan. **cultivar:** Hourei. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for soyfoods including tofu. Last grown in Raleigh, NC in 1990. Cultivated. Seed.
- PI 561385 **origin:** Japan. **origin institute:** Okura and Company, Inc. Japan. **cultivar:** Jitsuka. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for natto. Cultivated. Seed.
- PI 561386 **origin:** Japan. **origin institute:** Gomei Soji Company, Inc. Japan. **cultivar:** Jizuka. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for natto. Last grown in Clayton, NC in 1990. Cultivated. Seed.
- PI 561387 **origin:** Japan. **origin institute:** Okura and Company, Inc. Japan. **cultivar:** Kosuzu. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for natto. Cultivated. Seed.
- PI 561388 **origin:** Japan. **origin institute:** Gomei Soji Company, Ltd. Japan. **cultivar:** Nakasennari. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for soyfoods including tofu. Last grown in Clayton, NC in 1989. Cultivated. Seed.
- PI 561389 **origin:** Japan. **origin institute:** Okura and Company, Inc. Japan. **cultivar:** Okura Natto. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for natto. Cultivated. Seed.
- PI 561390 **origin:** Japan. **origin institute:** Gomei Soji Company, Ltd. Japan. **cultivar:** Takanowa. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for natto. Last grown in Clayton, NC in 1990. Cultivated. Seed.
- PI 561391 **origin:** Japan. **origin institute:** Gomei Soji Company, Ltd. Japan. **cultivar:** Tomahomare. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for soyfoods including tofu. Last grown in Clayton, NC in 1988. Cultivated. Seed.
- PI 561392 **origin:** Japan. **origin institute:** Nagano Prefecture Agr. Exp. Sta. Japan. **cultivar:** Tsuronoko. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for soyfoods including tofu. Last grown in Clayton, NC in 1990. Cultivated. Seed.

PI 561383 to 561393-continued

PI 561393 **origin:** Japan. **origin institute:** Azuma Natto Factory Japan. **cultivar:** Ootura. **remarks:** Maturity group 4-6. Seed gray, shatters. Used for soyfoods including tofu. Last grown in Clayton, NC in 1990. Cultivated. Seed.

PI 561394 to 561398. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Takahashi, N., Soybean Breeding Lab, Nagano Cushman Agr. Exp. Sta., Tokoo, Shouga, Shiojiri-shi, Nagano 10664, Japan. Received May 04, 1992.

PI 561394 **origin:** Japan. **cultivar:** Hourei. Cultivated. Seed.

PI 561395 **origin:** Japan. **cultivar:** Suzuyutaka. Cultivated. Seed.

PI 561396 **origin:** Japan. **cultivar:** Tachinagaha. Cultivated. Seed.

PI 561397 **origin:** Japan. **cultivar:** Tousan 122. Cultivated. Seed.

PI 561398 **origin:** Japan. **cultivar:** Tousan 140. Cultivated. Seed.

PI 561399. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Skorupska, H., Department of Agronomy and Soils, Clemson University, Clemson, South Carolina 29634-0359, United States. Received May 04, 1992.

origin: UNKNOWN. Seed.

PI 561400. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Missouri Agr. Exp. Sta., University of Missouri, Delta Center, Portageville, Missouri, United States. Received May 04, 1992.

origin: United States. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, Delta Center, Portageville, Missouri United States. **cultivar:** Rhodes. **pedigree:** J74-123 X N73-520. **other id:** S80-2959. **remarks:** Maturity group V. Matures approx. 2 days later than Forrest. Height 31". Lodging 1.7(1). Size 14.8. Protein percentage 41.1 Oil percentage 20.7. Resistance high to soybean cyst nematode Races 3 & 4, and common root-knot nematode. Seeds yellow with black hila. Cultivated. Seed.

PI 561401 to 561403. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Agricultural Research Service -- USDA, Soybean Production Research, Stoneville, Mississippi, United States; and North Carolina Agr. Res. Service. Received May 04, 1992.

PI 561401 **origin:** United States. **developed:** J.W. Burton, W.V Campbell, S.V. Hart, J.P. Ross, C.A. Brim, P.A. Miller. **origin institute:** Agricultural Research Service -- USDA, Soybean Production Research, Stoneville, Mississippi United States. **cultivar:** N80-53201. **pedigree:** F5 line of Group V maturity derived from the second backcross of line 6 to Forest. **other id:** GP-69. **source:** Crop Sci. 26(1):212 1986. **group:** CSR-SOYBEAN. **remarks:** Had 55 & 43% less foliar feeding than Forrest, under field infestations of corn earworm (CEW) and Mexican bean beetle (MBB), respectively. Mean days to pupation of MBB was greater than from larvae on Forrest. Has Group V maturity. Averaged over two North Carolina environments, it yielded 2813 kg/ha compared to 3567 kg/ha for Forrest. Breeding Material. Seed.

PI 561402 **origin:** United States. **developed:** J.W. Burton, W.V Campbell, S.V. Hart, J.P. Ross, C.A. Brim, P.A. Miller. **origin institute:** Agricultural Research Service -- USDA, Soybean Production Research, Stoneville, Mississippi United States. **cultivar:** N79-2282. **pedigree:** F5 line of Group VII maturity derived from the second backcross of line 4 to Forest. **other id:** GP-70. **source:** Crop Sci. 26(1):212 1986. **group:** CSR-SOYBEAN. **remarks:** Had 61 & 40% less foliar feeding than Forrest, under field infestations of corn earworm (CEW) and Mexican bean beetle (MBB), respectively. 14th day CEW larvae weights and MBB pupa weights were lower than Forrest by 41 and 11%, respectively. Rated equal to Bragg in feeding by soybean looper (*Pseudoplusia includens*). Yielded 2541 kg/ha averaged over 26 environments compared to 2702 kg/ha for Braxton. Breeding Material. Seed.

PI 561401 to 561403-continued

PI 561403 **origin:** United States. **developed:** J.W. Burton, W.V Campbell, S.V. Hart, J.P. Ross, C.A. Brim, P.A. Miller. **origin institute:** Agricultural Research Service -- USDA, Soybean Production Research, Stoneville, Mississippi United States. **cultivar:** N80-50232. **pedigree:** F7 line of Group VII maturity derived from the first backcross of line 6 to Forrest. **other id:** GP-71. **source:** Crop Sci. 26(1):212 1986. **group:** CSR-SOYBEAN. **remarks:** Had 61 & 58% less foliar feeding than Forrest under field infestations of corn earworm (CEW) & Mexican bean beetle (MBB), respectively. Level of feeding not significantly different from resistance source PI 229358. CEW larvae caged had 55% lower 14th day larvae weights than larvae caged on Forrest. MBB larvae required 5 more days to reach pupation & had pupae that were 25% lower in weight than those reared on Forrest. Rated 56% lower than Braxton check for feeding by soybean looper. Yield average was 2013 kg/ha compared to 2413 kg/ha for Braxton. Breeding Material. Seed.

PI 561404 to 561408. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Agricultural Research Service -- USDA, United States; and Purdue Univ. Agr. Exp. Sta.. Received May 04, 1992.

PI 561404 **origin:** United States. **developed:** C.S. Davies, N.C. Nielsen. **origin institute:** Agricultural Research Service -- USDA United States. **cultivar:** L1-5. **pedigree:** 'Century' (Lx1Lx1Lx2Lx2Lx3Lx3) X PI 408251 (Lx1Lx1Lx2Lx2Lx3Lx3) (1). Original crosses were followed by five backcrosses to Century. Increased by selfing the progeny from a single F2 seed of known phenotype. **other id:** GP-93. **source:** Crop Sci. 27(2):370 1987. **group:** CSR-SOYBEAN. **remarks:** Early backcross generations were selected for conformity to Century plant-type, maturity and phenotypic marker genes T, W, g, R, and i (4). No obvious visual differences between Century plants and single plants. Seeds increased in the field at both West Lafayette and Puerto Rico. May contain 1-4% wild-type alleles due to outcrossing. Breeding Material. Seed.

PI 561404 to 561408-continued

- PI 561405 **origin:** United States. **developed:** C.S. Davies, N.C. Nielsen. **origin institute:** Agricultural Research Service -- USDA United States. **cultivar:** L2-3. **pedigree:** Century X PI 86023 (Lx1Lx1Lx2Lx2Lx3Lx3) (2). Original crosses were followed by three backcrosses to Century. Increased by selfing the progeny from a single F2 seed of known phenotype. **other id:** GP-94. **source:** Crop Sci. 27(2):370 1987. **group:** CSR-SOYBEAN. **remarks:** Early backcross generations were selected for conformity to Century plant-type, maturity and phenotypic marker genes T, W, g, R, and i (4). Produced occasional off-types that exhibited late maturity, increased plant size and coarseness. Seeds were increased in the field at both West Lafayette and Puerto Rico. May contain 1-4% wild-type alleles due to outcrossing. Breeding Material. Seed.
- PI 561406 **origin:** United States. **developed:** C.S. Davies, N.C. Nielsen. **origin institute:** Agricultural Research Service -- USDA United States. **cultivar:** L3-5. **pedigree:** Century X 'Ichigowase' PI 205085 (Lx1Lx1Lx2Lx2Lx3Lx3) (3). Original crosses were followed by five backcrosses to Century. Increased by selfing the progeny from a single F2 seed of known phenotype. **other id:** GP-95. **source:** Crop Sci. 27(2):370 1987. **group:** CSR-SOYBEAN. **remarks:** Early backcross generations were selected for conformity to Century plant-type, maturity and phenotypic marker genes T, W, g, R, and i (4). No obvious visual differences between Century plants and single plants. Seeds were increased in the field at both West Lafayette and Puerto Rico. May contain 1-4% wild-type alleles due to outcrossing. Breeding Material. Seed.
- PI 561407 **origin:** United States. **developed:** C.S. Davies, N.C. Nielsen. **origin institute:** Agricultural Research Service -- USDA United States. **cultivar:** L1L3-4-4. **pedigree:** Single seed selected from the F2 generation of BC4F2 (L1-less) X BC4F2 (L3-less where BC4F2 represents F2 plants from the fourth backcross generation for the 1x2 or 1x3 alleles, respectively. **other id:** GP-96. **source:** Crop Sci. 27(2):370 1987. **group:** CSR-SOYBEAN. **remarks:** Early backcross generations were selected for conformity to Century plant-type, maturity and phenotypic marker genes T, W, g, R, and i (4). No obvious visual differences between Century plants and single plants. Seeds were increased in the field at both West Lafayette and Puerto Rico. May contain 1-4% wild-type alleles due to outcrossing. Breeding Material. Seed.

PI 561408 **origin:** United States. **developed:** C.S. Davies, N.C. Nielsen. **origin institute:** Agricultural Research Service -- USDA United States. **cultivar:** L2L3-2-4. **pedigree:** Single seed selected from the F2 generation of BC2F2 (L2-less) X BC4F2 (L3-less) where BC2F2 and BC4F2 represent F2 plants of known genotype selected from the second and fourth backcross generations for 1x2 and 1x3, respectively. **other id:** GP-97. **source:** Crop Sci. 27(2):370 1987. **group:** CSR-SOYBEAN. **remarks:** Early backcross generations were selected for conformity to Century plant-type, maturity and phenotypic marker genes T, W, g, R, and i (4). Produced occasional off-types that exhibited late maturity, increased plant size and coarseness. Seeds were increased in the field at both West Lafayette and Puerto Rico. May contain 1-4% wild-type alleles due to outcrossing. Breeding Material. Seed.

PI 561409. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: Ullrich, S.E., Washington Agr. Res. Ctr., Washington State University, Department of Crop & Soil Sciences, Pullman, Washington 99164-6402, United States; and Idaho Agr. Exp. Sta.; and Oregon Agr. Exp. Sta. **remarks:** Crest Barley. Received June 60, 1992.

origin: United States. **developed:** C.E. Muir, R.A. Nilan, S.E. Ullrich, J.A. Froseth, B.C. Miller. **origin institute:** Washington Agr. Res. Ctr., Washington State University, Department of Crop & Soil Sciences, Pullman, Washington 99164-6402 United States. **cultivar:** CREST. **pedigree:** Klages/2 WA8537-68. **other id:** CV-231. **source:** Crop Sci. 32(6):1506 1992. **group:** CSR-BARLEY. **other id:** WA8771-78. **restricted:** CSR. **remarks:** Two-row, mid-season, spring malting and feed barley. Height medium. Spikes lax nodding. Awns long, rough. Kernels mid-long and plump. Hulls slightly wrinkled, adhering. Veins prominent. Crease narrow to broad. Rachilla hairs long. Aleurone white. Widely adapted. Highest relative yield in areas where rainfall is less than 450mm. Test weight and plumpness over 40 location-years was 68kg hl-1 and 89%, respectively. Maturity averages 175 days from 1/1, two days earlier than Klages. Partial resistance to powdery mildew (*Erysiphe graminis*). Good malting and nutritional quality. Spring Annual. Cultivar. Seed.

PI 561410. *Trifolium campestre* Schreber FABACEAE

Donated by: Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab, Bldg. 003, Rm 402, Beltsville, Maryland 20705, United States. Received May 07, 1992.

donor id: 8106. **origin:** Uzbekistan. **collector:** C.R. Sperling. **collector id:** 8106. **locality:** Flat, gravel wasteland surrounding town petrol station with weedy herbs, 4km NE of Denay, near Sariasiva, Uzbekistan Province. **latitude:** 38 deg. 22 min. N. **longitude:** 067 deg. 52 min. E. **elevation:** 680m. **remarks:** Two plants. Annual. Wild. Seed.

PI 561411 to 561414. *Vicia cracca* subsp. *tenuifolia* (Roth) Gaudin
FABACEAE

Donated by: Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab, Bldg. 003, Rm 402, Beltsville, Maryland 20705, United States. Received May 07, 1992.

PI 561411 **donor id:** 8111a. **origin:** Uzbekistan. **collector:** C.R. Sperling. **collector id:** 8111a. **locality:** Flat, hilltop pasture, 4km E of Sairob on Baysun road, Uzbekistan Province. **latitude:** 38 deg. 05 min. N. **longitude:** 066 deg. 59 min. E. **elevation:** 970m. **remarks:** Plants small, clumped. Perennial. Wild. Seed.

PI 561412 **donor id:** 8170. **origin:** Uzbekistan. **collector:** C.R. Sperling. **collector id:** 8170. **locality:** West margin of cornfield and roadside banks (grasses and legumes), 5km N of Akhangaran, Tashkent to Angren road, Uzbekistan Province. **latitude:** 40 deg. 57 min. N. **longitude:** 069 deg. 32 min. E. **elevation:** 690m. **remarks:** Plants large, clumped. Perennial. Wild. Seed.

PI 561413 **donor id:** 8223. **origin:** Tajikistan. **collector:** C.R. Sperling. **collector id:** 8223. **locality:** Flat, irrigated cereal (wheat) prairie and roadside, 39km E of Penzikent, near Dashtikosi, Tadzhikistan Province. **latitude:** 39 deg. 28 min. N. **longitude:** 067 deg. 43 min. E. **elevation:** 1250m. **remarks:** Plants large, clumped. Perennial. Wild. Seed.

PI 561414 **donor id:** 8226. **origin:** Tajikistan. **collector:** C.R. Sperling. **collector id:** 8226. **locality:** Flat, orchard (apple) and pasture (legumes and grasses), 24km E of Penzikent, near Novobad, Tadzhikistan Province. **latitude:** 39 deg. 28 min. N. **longitude:** 067 deg. 37 min. E. **elevation:** 1180m. **remarks:** Plants small, clumped. Perennial. Wild. Seed.

PI 561415 to 561418. *Vicia ervilia* (L.) Willd. FABACEAE

Donated by: Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab, Bldg. 003, Rm 402, Beltsville, Maryland 20705, United States. Received May 07, 1992.

- PI 561415 **donor id:** 8123. **origin:** Uzbekistan. **collector:** C.R. Sperling. **collector id:** 8123. **locality:** Disused terraces, walnut plantation and rough pasture, 1km into reserve, 5km E of Harasheng, near Kyzyl Su, Uzbekistan Province. **latitude:** 38 deg. 58 min. N. **longitude:** 067 deg. 04 min. E. **elevation:** 1280m. **remarks:** Plants medium, clumped. Annual. Wild. Seed.
- PI 561416 **donor id:** 8141. **origin:** Uzbekistan. **collector:** C.R. Sperling. **collector id:** 8141. **locality:** South roadside banks and pasture (grasses and legumes), 15km N of Shakhriyabz, near Kitab, Uzbekistan Province. **latitude:** 39 deg. 12 min. N. **longitude:** 066 deg. 53 min. E. **elevation:** 1060m. **remarks:** Plants small, clumped. Annual. Wild. Seed.
- PI 561417 **donor id:** 8175. **origin:** Uzbekistan. **collector:** C.R. Sperling. **collector id:** 8175. **locality:** South rocky hillside pasture above reservoir (grasses and legumes), 6km NE of Angren, near Chet-Suv, Uzbekistan Province. **latitude:** 41 deg. 04 min. N. **longitude:** 070 deg. 13 min. E. **elevation:** 1200m. **remarks:** Plants small, clumped. Annual. Wild. Seed.
- PI 561418 **donor id:** 8237. **origin:** Uzbekistan. **collector:** C.R. Sperling. **collector id:** 8237. **locality:** North irrigated hillside, mixed shrubs and herbs, 2km SW of road bridge over Chatkal River, near Burchimulla, Uzbekistan Province. **latitude:** 41 deg. 36 min. N. **longitude:** 070 deg. 03 min. E. **elevation:** 920m. **remarks:** Plants small, disperse. Annual. Wild. Seed.

PI 561419 to 561425. *Vicia hyrcanica* Fischer & C. Meyer FABACEAE

Donated by: Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab, Bldg. 003, Rm 402, Beltsville, Maryland 20705, United States; and Maxted, N.. Received May 07, 1992.

- PI 561419 **donor id:** 8116. **origin:** Uzbekistan. **collected:** May 31, 1991. **collector:** N. Maxted, C.R. Sperling. **collector id:** 8116. **other id:** 918116. **locality:** Flat, scrub, wasteground around petrol station, near Kamashi, Uzbekistan Province. **latitude:** 38 deg. 48 min. N. **longitude:** 066 deg. 28 min. E. **elevation:** 610m. **remarks:** Plants small, clumped. Annual. Wild. Seed.

PI 561419 to 561425-continued

- * PI 561420 *Vicia michauxii* Sprengel FABACEAE
donor id: 8130. origin: Uzbekistan. collected: June 01, 1991. collector: N. Maxted, C.R. Sperling. collector id: 8130. other id: 918130. locality: Flat roadside by vineyard and orchard (apples and grapes), 12km E of Yakkabag, near Beshkapa, Uzbekistan Province. latitude: 38 deg. 57 min. N. longitude: 066 deg. 50 min. E. elevation: 860m. remarks: Two plants. Additional voucher locations: MO, G. Annual. Wild. Seed.
- PI 561421 donor id: 8148. origin: Uzbekistan. collected: June 03, 1991. collector: N. Maxted, C.R. Sperling. collector id: 8148. other id: 918148. locality: Flat, weedy cornfield and orchard (grasses, legumes, plums and almonds), 5kms SW of railway bridge, near Pertolrobad, Uzbekistan Province. latitude: 39 deg. 48 min. N. longitude: 067 deg. 23 min. E. elevation: 880m. remarks: Plants large, disperse. Annual. Wild. Seed.
- PI 561422 donor id: 8162. origin: Uzbekistan. collected: June 04, 1991. collector: N. Maxted, C.R. Sperling. collector id: 8162. other id: 918162. locality: Margin of flat wheat field, 13km S of Ulyano, near Ulyano, Uzbekistan Province. latitude: 40 deg. 04 min. N. longitude: 068 deg. 25 min. E. elevation: 560m. remarks: Plants large, disperse. Annual. Wild. Seed.
- PI 561423 donor id: 8215. origin: Tajikistan. collected: June 11, 1991. collector: N. Maxted, C.R. Sperling. collector id: 8215. other id: 918215. locality: Flat, irrigated cereal (wheat) field and roadside, 39km E of Penzikent, near Dashtikosi, Tadzhikistan Province. latitude: 39 deg. 28 min. N. longitude: 067 deg. 43 min. E. elevation: 1250m. remarks: Plants large, disperse. Annual. Wild. Seed.
- PI 561424 donor id: 8224. origin: Tajikistan. collected: June 11, 1991. collector: N. Maxted, C.R. Sperling. collector id: 8224. other id: 918224. locality: Flat, orchard (apple) and pasture (legumes and grasses), 24km E of Penzikent, near Novobad, Tadzhikistan Province. latitude: 39 deg. 28 min. N. longitude: 067 deg. 37 min. E. elevation: 1180m. remarks: Plants medium, clumped. Annual. Wild. Seed.

PI 561419 to 561425-continued

PI 561425 **donor id:** 8242. **origin:** Uzbekistan. **collected:** June 17, 1991. **collector:** N. Maxted, C.R. Sperling. **collector id:** 8242. **other id:** 918242. **locality:** Flat, irrigated fields, vineyard and potato, 6km SW of Charvok on Gazalkent road, near Korankul, Uzbekistan Province. **latitude:** 41 deg. 35 min. N. **longitude:** 069 deg. 53 min. E. **elevation:** 780m. **remarks:** Plants large, clumped. Annual. Wild. Seed.

PI 561426 to 561429. *Vicia peregrina* L. FABACEAE

Donated by: Sperling, C.R., Agricultural Research Service -- USDA, National Germplasm Resources Lab, Bldg. 003, Rm 402, Beltsville, Maryland 20705, United States; and Maxted, N.. Received May 07, 1992.

PI 561426 **donor id:** 8150. **origin:** Uzbekistan. **collected:** June 03, 1991. **collector:** N. Maxted, C.R. Sperling. **collector id:** 8150. **other id:** 918150. **locality:** Flat, weedy cornfield and orchard (grasses, legumes, plums and almonds), 5kms SW of railway bridge, near Pertolrobad, Uzbekistan Province. **latitude:** 39 deg. 48 min. N. **longitude:** 067 deg. 23 min. E. **elevation:** 880m. **remarks:** Plants small, disperse. Annual. Wild. Seed.

PI 561427 **donor id:** 8169. **origin:** Uzbekistan. **collected:** June 06, 1991. **collector:** N. Maxted, C.R. Sperling. **collector id:** 8169. **other id:** 918169. **locality:** Western aspect, margin of cornfield and roadside banks (grasses and legumes), 5km N of Akhangaren, Tashkent to Angren road, Uzbekistan Province. **latitude:** 40 deg. 57 min. N. **longitude:** 069 deg. 32 min. E. **elevation:** 690m. **remarks:** Plants medium, clumped. Annual. Wild. Seed.

PI 561428 **donor id:** 8199. **origin:** Tajikistan. **collected:** June 10, 1991. **collector:** N. Maxted, C.R. Sperling. **collector id:** 8199. **other id:** 918199. **locality:** Southern aspect, small river valley, mixed shrubs and cereal fields, 3km N of Vechkan in gorge, Tadzhikistan Province. **latitude:** 39 deg. 28 min. N. **longitude:** 068 deg. 06 min. E. **elevation:** 1520m. **remarks:** Plants medium, clumped. Annual. Wild. Seed.

PI 561429 **donor id:** 8214. **origin:** Tajikistan. **collected:** June 11, 1991. **collector:** N. Maxted, C.R. Sperling. **collector id:** 8214. **other id:** 918214. **locality:** Margin of flat, irrigated cereal (wheat) field and roadside, 39km E of Penzikent, near Dashtikosi, Tadzhikistan Province. **latitude:** 39 deg. 28 min. N. **longitude:** 067 deg. 43 min. E. **elevation:** 1250m. **remarks:** Plants large, disperse. Annual. Wild. Seed.

PI 561430 to 561431. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Eizenga, G., Agricultural Research Service -- USDA, Tobacco & Forage Unit, Univ. of Kentucky, Department of Agronomy, Lexington, Kentucky 40546-0091, United States. Received April 21, 1992.

PI 561430 **donor id:** 889G1-334. **origin:** United States. **source history:** Original seed collected at the Suiter Farm, approx. 2 miles N of Frenchburg on Hwy 36, Menifee Co., KY. Stored for over a year in a warehouse owned by Dobb's Seed Company.. **cultivar:** KENTUCKY 31. **collected:** June 28, 1990. **collector:** J. Pedersen, P. Burrus. **collector id:** 889G1-334. **other id:** W6 6599. **group:** W6. **latitude:** 38 deg. 03 min. N. **longitude:** 84 deg. 30 min. W. **elevation:** 292m. **remarks:** Seed not infected with endophyte, *Acremonium coenophialum*. Seed has been increased approximately four generations on Spindletop Research Farm, approx. 7 miles N of downtown Lexington, Fayette County. Genetic Material. Seed.

PI 561431 **donor id:** 889G1-334. **origin:** United States. **source history:** Original seed collected at Suiter Farm, approx. 2 miles N of Frenchburg on Hwy 36, Menifee Co., Ky.. **cultivar:** KENTUCKY 31. **collected:** July 08, 1988. **collector:** J. Pedersen, P. Burrus. **collector id:** 889G1-334. **other id:** W6 6600. **group:** W6. **latitude:** 37 deg. 57 min. N. **longitude:** 83 deg. 38 min. W. **elevation:** 265m. **remarks:** Seed infected with endophyte, *Acremonium coenophialum*. Collected where original 'Kentucky 31' seed was found in 1931. Cultivated. Seed.

PI 561432 to 561469. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Campbell, T.A., Alfalfa and Soybean Research Laboratory, USDA-ARS-PSI, Beltsville, Maryland 20705, United States. Received November 21, 1990.

PI 561432 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** XING PING. **other id:** W6 6165. **group:** W6. Cultivar. Seed.

PI 561433 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** CANG ZHOU. **other id:** W6 6166. **group:** W6. Cultivar. Seed.

PI 561434 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** FU GU. **other id:** W6 6167. **group:** W6. Cultivar. Seed.

PI 561435 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** LIN FEN. **other id:** W6 6168. **group:** W6. Cultivar. Seed.

PI 561432 to 561469-continued

- PI 561436 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** CHANG WU. **other id:** W6 6169. **group:** W6. Cultivar. Seed.
- PI 561437 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** HAN XIAN. **other id:** W6 6170. **group:** W6. Cultivar. Seed.
- PI 561438 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** XIAN YANG. **other id:** W6 6171. **group:** W6. Cultivar. Seed.
- PI 561439 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** BAO DING. **other id:** W6 6172. **group:** W6. Cultivar. Seed.
- PI 561440 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** DING XIANG. **other id:** W6 6173. **group:** W6. Cultivar. Seed.
- PI 561441 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** SHA HE. **other id:** W6 6174. **group:** W6. Cultivar. Seed.
- PI 561442 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** CHUN HUA. **other id:** W6 6175. **group:** W6. Cultivar. Seed.
- PI 561443 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** WEI NAN. **other id:** W6 6176. **group:** W6. Cultivar. Seed.
- PI 561444 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** QIAN XIAN. **other id:** W6 6177. **group:** W6. Cultivar. Seed.
- PI 561445 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** YU CI. **other id:** W6 6178. **group:** W6. Cultivar. Seed.
- PI 561446 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** YUN CHENG. **other id:** W6 6179. **group:** W6. Cultivar. Seed.
- PI 561447 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** JIN NAN. **other id:** W6 6180. **group:** W6. Cultivar. Seed.
- PI 561448 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** TIAN JIN. **other id:** W6 6181. **group:** W6. Cultivar. Seed.

PI 561432 to 561469-continued

- PI 561449 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** BAO JI. **other id:** W6 6182. **group:** W6. Cultivar. Seed.
- PI 561450 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** YONG JI. **other id:** W6 6183. **group:** W6. Cultivar. Seed.
- PI 561451 **origin:** China. **origin institute:** Institute of Animal & Husbandry Sciences, CAAS, Beijing China. **cultivar:** JING YANG. **other id:** W6 6184. **group:** W6. Cultivar. Seed.
- PI 561452 **origin:** China. **origin institute:** Lanzhou Institute of Animal Sciences, CAAS, Lanzhou, Hebei China. **cultivar:** CHA BEI. **other id:** W6 6185. **group:** W6. Cultivar. Seed.
- PI 561453 **origin:** China. **origin institute:** Lanzhou Institute of Animal Sciences, CAAS, Lanzhou, Jilin China. **cultivar:** GONG NONG #1. **other id:** W6 6186. **group:** W6. Cultivar. Seed.
- PI 561454 **origin:** China. **origin institute:** Lanzhou Institute of Animal Sciences, CAAS, Lanzhou, Heilongjiang China. **cultivar:** ZHOA DONG. **other id:** W6 6187. **group:** W6. Cultivar. Seed.
- PI 561455 **origin:** China. **origin institute:** Lanzhou Institute of Animal Sciences, CAAS, Lanzhou, Gansu China. **cultivar:** DING XI. **other id:** W6 6188. **group:** W6. Cultivar. Seed.
- * PI 561456 *Medicago sativa* subsp. *falcata* (L.) Arcang. FABACEAE
Alfalfa
origin: China. **origin institute:** Lanzhou Institute of Animal Sciences, CAAS, Lanzhou China. **other id:** W6 6189. **group:** W6. **locality:** Mongolia. **received as:** *M. sativa* subsp. *falcata*. Cultivar. Seed.
- PI 561457 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot China. **cultivar:** ZHUN GEER. **other id:** W6 6190. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561458 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot, Heilongjiang China. **cultivar:** ZHOA DONG. **other id:** W6 6191. **group:** W6. **locality:** Mongolia. Cultivar. Seed.

PI 561432 to 561469-continued

- PI 561459 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot, Shanxi China. **cultivar:** QING YANG. **other id:** W6 6192. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561460 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot China. **cultivar:** SHA WAN. **other id:** W6 6193. **group:** W6. **locality:** XinJiang, Mongolia. Cultivar. Seed.
- PI 561461 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot, Shanxi China. **cultivar:** WU GONG. **other id:** W6 6194. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561462 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot, Shanxi China. **cultivar:** YANG GAO. **other id:** W6 6195. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561463 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot China. **cultivar:** HUMENG. **other id:** W6 6196. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561464 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot, Jilin China. **cultivar:** GONG NONG #1. **other id:** W6 6197. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561465 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot, Heilongjiang China. **cultivar:** JIAMUSI. **other id:** W6 6198. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561466 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot China. **cultivar:** QUIG SHUI HE. **other id:** W6 6199. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561467 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot, Jilin China. **cultivar:** GONG NONG #2. **other id:** W6 6200. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561468 **origin:** China. **origin institute:** Grassland Research Institute, CAAS, Huhehot, Hebei China. **cultivar:** YU XIAN. **other id:** W6 6201. **group:** W6. **locality:** Mongolia. Cultivar. Seed.
- PI 561469 **origin:** China. **cultivar:** HU BEI #1. **other id:** W6 6202. **group:** W6. **locality:** Mongolia. Cultivar. Seed.

PI 561470. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, E.E., Agricultural Research Service -- USDA, P.O. Box 196, Stoneville, Mississippi 38776, United States; and Mississippi Agr. and Forestry Exp. Sta.. **remarks:** D82-2896 Soybean Germplasm. Received May 29, 1992.

origin: United States. **developed:** E.E. Hartwig. **origin institute:** Agricultural Research Service -- USDA, P.O. Box 196, Stoneville, Mississippi 38776 United States. **cultivar:** D82-2896. **pedigree:** Forrest X D78-5685. **other id:** GP-141. **source:** Crop Sci. 32(6):1514 1992. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Group V maturity, similar in maturity and growth characteristics to Forrest. Differs from Forrest in that it has grey pubescence, is resistant to stem canker and carries the Rps3 gene for resistance to phytophthora rot. Resistant to SCN Race 3. Spring Annual. Breeding Material. Seed.

PI 561471. *Trifolium hirtum* All. FABACEAE Rose clover

Donated by: Smith, G.R., Texas Agr. Exp. Sta., P.O. Box E, Overton, Texas 75684, United States; and Soil Conservation Service -- USDA. **remarks:** Overton R18 Rose Clover. Received May 29, 1992.

origin: United States. **developed:** G.R. Smith, F.M. Rouquette, Jr., G.W. Evers, M.A. Hussey, W.R. Ocumpaugh, J.C. Read, A.M. Schubert. **origin institute:** Texas Agr. Exp. Sta., Texas A&M Univ. Agr. Res. and Ext. Ctr., Overton, Texas 75684 United States. **cultivar:** OVERTON R18. **pedigree:** Selection from mixed line (PI 311483) introduced from Spain. **other id:** CV-100. **source:** Crop Sci. 32(6):1507 1992. **group:** CSR-OTHER LEGUMES. **restricted:** CSR. **remarks:** Late maturing, cold tolerant. Matures seed by mid-June at Overton, and is winter hardy as far north as central Oklahoma. Productive in March, April, and May with a 5 year average forage production of 3671kg DM/ha in Texas. Spring Annual. Cultivar. Seed.

PI 561472. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Meckenstock, D.H., Secretaria de Recursos Naturales, Escuela Agricola Panamericana, Tegucigalpa, Honduras; and Int'l Sorghum & Millet Prog. (INTSORMIL); and ICRISAT. **remarks:** Sureno Sorghum. Received May 29, 1992.

PI 561472-continued

origin: Honduras. **developed:** D.H. Meckenstock, F. Gomez, D.T. Rosenow, V. Guiragossian. **origin institute:** Secretaria de Recursos Naturales, Escuela Agricola Panamericana, P.O. Box 93, Tegucigalpa Honduras. **cultivar:** SURENO. **pedigree:** [(SC423/CS3541)E35-1]-2. **other id:** M62650. **other id:** ICSV110. **other id:** VGl46. **other id:** CV-129. **group:** CSR-SORGHUM. **remarks:** Insensitive to photoperiod. Flowers in cv. 72 days. Ht. intermediate (2.1m). Plant color tan (pp qq). Glumes tan. Panicle semi-compact, elliptical. Pericarp white, translucent (RR yy ZZ II bibi B2B2 SS). Excellent cereal quality for tortillas. Caryopsis has a mass of 28mg & normal endosperm texture & type. Resist. good to pre-harvest grain molds. Resist. good to maize weevil which is attributed to kernel hardness & small seed size. Resist. to pathotype 1 of sorghum downy mildew. Culms sweet, juicy. Midrib of leaves dull or green. Coleoptile green. Spring Annual. Cultivar. Seed.

PI 561473. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Hosfield, G.L., Agricultural Research Service -- USDA, Michigan State University, East Lansing, Michigan 48824, United States; and Michigan Agr. Exp. Sta.. **remarks:** Aztec Pinto Bean. Received May 29, 1992.

donor id: MSU P89430. **origin:** United States. **developed:** J.D. Kelly, G.L. Hosfield, G.V. Varner, M.A. Uebersax, N. Wassimi, J. Taylor. **origin institute:** Agricultural Research Service -- USDA, Michigan State University, East Lansing, Michigan 48824 United States. **cultivar:** AZTEC. **pedigree:** CO81-12034/P86297. **other id:** CV-101. **source:** Crop Sci. 32(6):1509 1992. **group:** CSR-OTHER LEGUMES. **other id:** W6 10531. **group:** W6. **restricted:** CSR. **remarks:** Erect type-II indeterminate growth habit. Plant ht. avg. 45cm. Lodging resistance improved. Matures 90 days after planting. Carries resistance to alpha race of anthracnose (*Colletotrichum lindemuthianum*). Seed size large 41g/100 seeds. Cooked seed texture 64kg/100g. Cooked seed color 37.5 L-units indicating the overall bright seed coat color. Spring Annual. Cultivar. Seed.

PI 561474. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Hosfield, G.L., Agricultural Research Service -- USDA, Michigan State University, East Lansing, Michigan 48824, United States; and Michigan Agr. Exp. Sta.. **remarks:** Alpine Great Northern Bean. Received May 29, 1992.

PI 561474-continued

donor id: MSU G89003. **origin:** United States. **developed:** J.D. Kelly, G. Hosfield, G.V. Varner, M.A. Uebersax, N. Wassimi, J. Taylor. **origin institute:** Agricultural Research Service -- USDA, Michigan State University, East Lansing, Michigan 48824 United States. **cultivar:** ALPINE. **pedigree:** Starlight/P86297. **other id:** CV-102. **source:** Crop Sci. 32(6):1509 1992. **group:** CSR-OTHER LEGUMES. **other id:** W6 10532. **group:** W6. **restricted:** CSR. **remarks:** Erect type-II indeterminate growth habit. Plant ht. avg. 50cm. Lodging resistance improved. Pod placement higher. Matures 93 days after planting. Carries dominant Ur-3 rust resistance gene and exhibits tolerance to the alpha race of anthracnose (*Colletotrichum lindemuthianum*). Seed size 35g/100 seeds. Cooked seed texture 43kg/100g. Spring Annual. Cultivar. Seed.

PI 561475. *Oryza sativa* L. POACEAE Rice

Donated by: Bockelman, H.E., National Small Grains Collection, Small Grains Germplasm Research Facility, P.O. Box 307, Aberdeen, Idaho 83210, United States. Received January 16, 1990.

origin: Brazil. **origin institute:** EMBRAPA Brazil. **cultivar:** CL SELECRO 63. **other id:** F 00157. Annual. Cultivar. Seed.

PI 561476. *Oryza sativa* L. POACEAE Rice

Donated by: Chang, H.E., International Rice Research Institute, P.O. Box 933, Manila, Luzon, Philippines. Received March 28, 1990.

origin: Philippines. **cultivar:** HAWARA BATU. **collector:** IRRI, Manila. **other id:** ACC 13524. **other id:** F 00296. **other id:** 2853. Annual. Cultivar. Seed.

PI 561477. *Cuphea aequipetala* Cav. LYTHRACEAE Cuphea

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received November 07, 1988.

donor id: Graham 996. **origin:** Mexico. **collector:** S. Graham. **collector id:** S. Graham 996. **other id:** Ames 9969. **source:** NC-7. **group:** Ames. **locality:** 10 km SW of La Comunidad on Hwy 134 between Toluca and Temascaltepec, pine-oak zone. **remarks:** Abundant along the roadside. Wild. Seed.

PI 561478. *Cuphea hookeriana* Walp. LYTHRACEAE

Donated by: Thompson, A.E., USDA-ARS, Water Quality Laboratory, Phoenix, Arizona, United States. Received January 09, 1986.

origin: UNCERTAIN. **other id:** Ames 4913. **source:** NC-7.
group: Ames. **other id:** AZ0024. Seed.

PI 561479. *Cuphea hookeriana* Walp. LYTHRACEAE *Cuphea*

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received November 07, 1988.

donor id: Graham 1007. **origin:** Mexico. **collected:** October 11, 1988. **collector:** S. Graham. **collector id:** S. Graham 1007. **other id:** Ames 9979. **source:** NC-7.
group: Ames. **locality:** 4 km S of Tlilapan on Orizba-Zongolica road. **elevation:** 1450m. **remarks:** Common on open, disturbed banks with *Pteridium aquilinum*; floral tube color varying from partly red to dark red; dorsal petals dark maroon, ventral petals absent; anthers pale purple. Wild. Seed.

PI 561480 to 561481. *Cuphea koehneana* Rose LYTHRACEAE *Cuphea*

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received November 07, 1988.

PI 561480 **donor id:** Graham 1001. **origin:** Mexico. **collected:** October 10, 1988. **collector:** S. Graham. **collector id:** S. Graham 1001. **other id:** Ames 9974. **source:** NC-7.
group: Ames. **locality:** 12 km east of Taxco on Hwy 95, in limestone outcrops with low, dry selva. **elevation:** 1800m. **remarks:** Plant common, very viscous. Wild. Seed.

PI 561481 **donor id:** Graham 1002. **origin:** Mexico. **collected:** October 10, 1988. **collector:** S. Graham. **collector id:** S. Graham 1002. **other id:** Ames 9975. **source:** NC-7.
group: Ames. **locality:** 2 km S of Taxco on Hwy 95, dry limestone hills, that were much disturbed. **elevation:** 1700m. **remarks:** Plants abundant in 2 color forms; red or white floral tubes. Wild. Seed.

PI 561482. *Cuphea laminuligera* Koehne LYTHRACEAE

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received April 11, 1988.

donor id: Graham 664. **origin:** Mexico. **collected:** August 26, 1978. **collector:** S. Graham. **other id:** Ames 8325. **source:** NC-7. **group:** Ames. **locality:** Collected from moist clay soil [D [D [D [D [D [D [D [D [on grassy east facing slopes. 3km N of Miltepec and 32km N of Huajuapán de León on Hwy 125 from Tehuacán, Pue. Abundant at this locality and for several km southward. **elevation:** 1850m. Perennial. Wild. Seed.

PI 561483 to 561484. *Cuphea laminuligera* Koehne LYTHRACEAE

Donated by: Knapp, S.J., Oregon State University, Corvallis, Oregon, United States. Received January 12, 1989.

PI 561483 **origin:** Mexico. **collected:** August 28, 1986. **collector:** S.J. Knapp. **collector id:** 82886323. **other id:** LA021. **source:** S.J. Knapp, Oregon State University, Corvallis, Oregon. **other id:** Ames 10126. **source:** NC-7. **group:** Ames. **locality:** Collected from roadside on Hwy 190, 3km east of Atlixco. **elevation:** 1871m. Wild. Seed.

PI 561484 **origin:** Mexico. **collected:** August 28, 1986. **collector:** S.J. Knapp. **collector id:** 82886324. **other id:** LA022. **source:** S.J. Knapp, Oregon State University, Oregon. **other id:** Ames 10127. **source:** NC-7. **group:** Ames. **locality:** Seed located at Hwy 190 east of Atlixco, hillside. **elevation:** 1811m. Wild. Seed.

PI 561485. *Cuphea lanceolata* Aiton f. LYTHRACEAE

Donated by: Thompson, A.E., USDA-ARS, Water Quality Laboratory, Phoenix, Arizona, United States. Received January 09, 1986.

origin: Mexico. **collected:** August 26, 1981. **collector:** S.A. Graham. **collector id:** Graham 704. **other id:** Ames 4891. **source:** NC-7. **group:** Ames. **other id:** AZ0058. **locality:** Collected 6.4km NE of Jacala on Hwy 85, Hidalgo. **elevation:** 1700m. Wild. Seed.

PI 561486. *Cuphea lanceolata* Aiton f. LYTHRACEAE

Donated by: Knapp, S.J., Oregon State University, Department of Crop Science, Corvallis, Oregon 97331, United States. Received .

PI 561486-continued

origin: Mexico. **collected:** August 26, 1986. **collector:** S.J. Knapp. **collector id:** 82686187-320. **other id:** LN073. **source:** Oregon State University Number. **other id:** LN078. **source:** Oregon State University Number. **other id:** Ames 10128. **source:** NC-7. **group:** Ames. **locality:** Seed collected at Highway 45, 5.6 km west of Hidalgo/Queretaro border. **elevation:** 2170m. Wild. Seed.

PI 561487. *Cuphea leptopoda* Hemsley LYTHRACEAE

Donated by: Knapp, S.J., Oregon State University, Department of Crop Science, Corvallis, Oregon 97331, United States. Received .

origin: Mexico. **collected:** August 24, 1989. **collector:** S.J. Knapp. **collector id:** 82486125. **other id:** LE024. **source:** Oregon State University Number. **other id:** Ames 10131. **source:** NC-7. **group:** Ames. **locality:** Seed collected 37 km from Urnapan on Hwy 37. **elevation:** 750m. Wild. Seed.

PI 561488 to 561489. *Cuphea lophostoma* Koehne LYTHRACEAE *Cuphea*

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received November 07, 1988.

PI 561488 **donor id:** Graham 1004. **origin:** Mexico. **collected:** October 11, 1988. **collector:** S. Graham. **collector id:** S. Graham 1004. **other id:** Ames 9976. **source:** NC-7. **group:** Ames. **locality:** 22km SE of Cuautla on Hwy 160. Abundant roadside weed. **elevation:** 1550m. Wild. Seed.

PI 561489 **donor id:** Graham 999. **origin:** Mexico. **collected:** October 10, 1988. **collector:** S. Graham. **collector id:** Graham 999. **other id:** Ames 9972. **source:** NC-7. **group:** Ames. **locality:** 12 km south of Villa Guerrero on Hwy 55 toward Ixtapande la Sal in low, wet stretch of land. **elevation:** 1950m. **remarks:** Found among grasses and sedges. Wild. Seed.

PI 561490 to 561491. *Cuphea paucipetala* S. Graham LYTHRACEAE *Cuphea*

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received November 07, 1988.

PI 561490 to 561491-continued

PI 561490 **donor id:** Graham 990. **origin:** Mexico. **collected:** October 04, 1988. **collector:** S. Graham. **collector id:** S. Graham 990. **other id:** Ames 9964. **source:** NC-7. **group:** Ames. **locality:** Trail to Tepoztlan pyramid at Tepoztlan. Along footpath in open sunny much disturbed areas. **elevation:** 1600m. Wild. Seed.

PI 561491 **donor id:** Graham 993. **origin:** Mexico. **collected:** October 09, 1988. **collector:** S. Graham. **collector id:** S. Graham 993. **other id:** Ames 9966. **source:** NC-7. **group:** Ames. **locality:** 13 km NE of Temascaltepec. **remarks:** Abundant on pine-oak slopes and at base of slopes in roadside ditches. Wild. Seed.

PI 561492. *Cuphea procumbens* Cav. LYTHRACEAE *Cuphea*

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received November 07, 1988.

donor id: Graham 1010. **origin:** Mexico. **collected:** October 11, 1988. **collector:** S. Graham. **collector id:** S. Graham 1010. **other id:** Ames 9980. **source:** NC-7. **group:** Ames. **locality:** Northern town limits of Coscomatepec on Hwy 125, in the wet, pastured fields and the low, wet roadsides. **elevation:** 1550m. **remarks:** Upper petals slightly deeper purple than pale ventral petals Plants decumbent and inflorescences erect. Wild. Seed.

PI 561493. *Cuphea racemosa* (L. f.) Sprengel LYTHRACEAE

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received April 11, 1988.

donor id: Graham 3362. **origin:** Costa Rica. **other id:** Ames 8337. **source:** NC-7. **group:** Ames. Perennial. Wild. Seed.

PI 561494 to 561495. *Cuphea* sp. LYTHRACEAE

Donated by: Campbell, T.A., USDA-ARS, Forage & Pasture, Bldg. 005, BARC-West, Beltsville, Maryland 20705, United States. Received March 18, 1987.

PI 561494 to 561495-continued

PI 561494 **donor id:** 4273. **origin:** UNCERTAIN. **origin institute:** USDA-ARS, Forage and Pasture, Bldg. 005, BARC-West, Beltsville, Maryland 20705 United States. **other id:** Ames 8130. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.

PI 561495 **donor id:** 4273Re2. **origin:** UNCERTAIN. **origin institute:** USDA-ARS, Forage and Pasture, Bldg. 005, BARC-West, Beltsville, Maryland 20705 United States. **other id:** Ames 8131. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.

PI 561496 to 561497. *Cuphea toluicana* Peyr. LYTHRACEAE

Donated by: Campbell, T.A., USDA-ARS, Forage & Pasture, Bldg. 005, BARC-West, Beltsville, Maryland 20705, United States. Received March 18, 1987.

PI 561496 **donor id:** GM749. **origin:** UNCERTAIN. **other id:** Ames 8144. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.

PI 561497 **donor id:** GM763Re3. **origin:** UNCERTAIN. **other id:** Ames 8150. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.

PI 561498. *Cuphea toluicana* Peyr. LYTHRACEAE *Cuphea*

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received November 07, 1988.

donor id: Graham 997. **origin:** Mexico. **collected:** October 1988. **collector:** S. Graham. **collector id:** Graham 997. **other id:** Ames 9970. **source:** NC-7. **group:** Ames. **locality:** 7 km N of Tenancingo on Hwy 55. **elevation:** 2400m. **remarks:** Common on pine-oak slopes. Wild. Seed.

PI 561499. *Cuphea viscosissima* Jacq. LYTHRACEAE

Donated by: Roath, W.W., Plant Introduction Station, Iowa State University, Ames, Iowa 50011, United States; and Widrlechner, M.P., Plant Introduction Station, Iowa State University, Ames, Iowa 50011, United States. Received September 28, 1987.

PI 561499-continued

origin: United States. **other id:** Ames 7897. **source:** NC-7. **group:** Ames. **locality:** Collected in gravel on edge of willow thicket, Alley Spring. Alley Spring Quad. **latitude:** 37 deg. 09 min. N. **longitude:** 91 deg. 26 min. W. **elevation:** 201m. Wild. Seed.

PI 561500 to 561501. *Cuphea viscosissima* Jacq. LYTHRACEAE

Donated by: Unknown. **Received .**

PI 561500 **origin:** United States. **collected:** October 25, 1988. **other id:** Ames 9963. **source:** NC-7. **group:** Ames. **locality:** T8N R1E SE1/4 of SW1/4 of Sec 3, growing in weedy, field on SE side of Rte 46 about 500 m SW of junction with Kent Road. Floodplain of the N fork of Salt Creek, Wildlife Management Unit #2 of the Monroe Reservoir. **latitude:** 39 deg. 09 min. N. **longitude:** 86 deg. 24 min. W. **elevation:** 167m. **remarks:** Associated plants: *Rosa*, *Oenothera*, *Setaria*, and *Lysimachia nummularia*. Wild. Seed.

PI 561501 **origin:** UNKNOWN. **other id:** Ames 10240. **source:** NC-7. **group:** Ames. Seed.

PI 561502 to 561504. *Cuphea wrightii* A. Gray LYTHRACEAE

Donated by: Knapp, S.J., Oregon State University, Department of Crop Science, Corvallis, Oregon 97331, United States. Received March 18, 1987.

PI 561502 **donor id:** WR053. **origin:** UNCERTAIN. **origin institute:** Oregon State University, Dept. of Crop Science, Corvallis, Oregon 97331 United States. **other id:** Ames 8095. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.

PI 561503 **donor id:** WR055. **origin:** UNCERTAIN. **origin institute:** Oregon State University, Dept. of Crop Science, Corvallis, Oregon 97331 United States. **other id:** Ames 8097. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.

PI 561504 **donor id:** Graham 828. **origin:** UNCERTAIN. **other id:** WR057. **source:** S.J. Knapp, Oregon St. Univ., Dept. of Crop Sci., Corvallis. **other id:** Ames 8099. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.

PI 561505 to 561511. *Cuphea wrightii* A. Gray LYTHRACEAE

Donated by: Campbell, T.A., USDA-ARS, Forage & Pasture, Bldg. 005, BARC-West, Beltsville, Maryland 20705, United States. Received March 18, 1987.

- PI 561505 **origin:** UNCERTAIN. **other id:** Ames 8102. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.
- PI 561506 **donor id:** 725Re. **origin:** UNCERTAIN. **other id:** Ames 8103. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.
- PI 561507 **donor id:** 725Re2. **origin:** UNCERTAIN. **other id:** Ames 8104. **source:** NC-7. **group:** Ames. Annual. Wild. Seed.
- PI 561508 **donor id:** GM725Re3. **origin:** UNCERTAIN. **other id:** Ames 8105. **source:** NC-7. **group:** Ames. Annual. Wild. Seed.
- PI 561509 **donor id:** GM732(175). **origin:** UNCERTAIN. **other id:** Ames 8108. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.
- PI 561510 **donor id:** GM775. **origin:** UNCERTAIN. **other id:** Ames 8111. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.
- PI 561511 **donor id:** GM828. **origin:** UNCERTAIN. **other id:** Ames 8113. **source:** NC-7. **group:** Ames. Annual. Breeding Material. Seed.

PI 561512. *Cuphea wrightii* A. Gray LYTHRACEAE *Cuphea*

Donated by: Graham, S., Kent State University, Dept. Biological Sciences, Kent, Ohio 44242-0001, United States. Received November 07, 1988.

donor id: Graham 991. **origin:** Mexico. **collected:** October 04, 1988. **collector:** S. Graham. **collector id:** Graham 991. **other id:** Ames 9965. **source:** NC-7. **group:** Ames. **locality:** Trail to Tepoztlan pyramid at Tepoztlan along footpath in the sunny, open, much disturbed areas. **elevation:** 1600m. Wild. Seed.

PI 561513. *Cuphea wrightii* A. Gray LYTHRACEAE

Donated by: Knapp, S.J., Oregon State University, Department of Crop Science, Corvallis, Oregon 97331, United States. Received .

origin: Mexico. **collected:** August 24, 1986. **collector:** S.J. Knapp. **collector id:** 8248635. **other id:** WR061.
source: Oregon State University Number. **other id:** WR091.
source: Oregon State University Number. **other id:** Ames 10166. **source:** NC-7. **group:** Ames. **locality:** Seed collected 19 km west of Morelia on Highway 15 to Quiroga, roadside. Wild. Seed.

PI 561514. *Pleurophora anomala* (A. St. Hil.) Koehne LYTHRACEAE

Donated by: CENARGEN, Brazil. **Received .**

donor id: BRA 000019. **origin:** Brazil. **collected:** March 02, 1989. **collector:** T.B. Cavalcanti, CENARGEN, Brazil W.W. Roath, NCRPIS, United States. **collector id:** TBC-WWR 368. **other id:** Ames 13687. **group:** Ames. **other id:** TBC 368. **locality:** Small grassy plateau in canyon, near spring, clays. About 5km E of Jacobina. **latitude:** 11 deg. 11 min. S. **longitude:** 40 deg. 29 min. W. **elevation:** 410m. Wild. Seed.

PI 561515 to 561537. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: York, J.O., Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701, United States. **Received** June 06, 1992.

PI 561515 **origin:** United States. **cultivar:** AR202. **pedigree:** Selected from an Ab28 outcross. Self-pollinated for 25+ generations. **remarks:** AES1000 maturity inbred. Height average 220cm, ear height 82cm. Yellow line. Cob red. Inbred produces two ears. Seed production poor in drought seasons. Pollen production average. Hybrids have good shuck coverage and strong stalks, but may root lodge. Spring Annual. Breeding Material. Seed.

PI 561516 **origin:** United States. **cultivar:** AR204. **pedigree:** [(NC24/K4)NC64]. Self-pollinated for 25+ generations. **remarks:** AES1000 maturity inbred. Height average 204cm, ear height 82cm. Yellow line. Cob red. Inbred produces two ears. Seed and pollen production fair. Hybrids stand well and have good shuck coverage. Spring Annual. Breeding Material. Seed.

- PI 561517 **origin:** United States. **cultivar:** AR206. **pedigree:** Selected from "foundation" seed of Tx601. Self-pollinated for 25+ generations. **remarks:** AES1000 maturity inbred. Height average 162cm, ear height 85cm. Yellow line. Cob large, pinkish. Inbred produces two ears. It and its Hybrids stand well. Shuck tough. Some leaf burning on inbred in drought conditions. Seed production fair. Pollen production normal. Spring Annual. Breeding Material. Seed.
- PI 561518 **origin:** United States. **cultivar:** AR208. **pedigree:** Normal line that segregated from a Gtl12 br2 backcross population after the 4th backcross to Gtl12. **remarks:** AES1000 maturity inbred. Height average 238cm, ear height 92cm. Two-eared yellow line. Cob white. Closely related to Gtl12, but is shorter and earlier. Shuck tough. Standability excellent. Seed and pollen production good. Spring Annual. Breeding Material. Seed.
- PI 561519 **origin:** United States. **cultivar:** AR218. **pedigree:** (Ark. SWEB Syn./Ark. Leaf Feed Res. Syn.). Self-pollinated for 20+ generations. **remarks:** AES900 maturity inbred. Height average 180cm, ear height 78cm. Cob red. Grain color deep yellow. Grain size small-medium. Seed production good. Spring Annual. Breeding Material. Seed.
- PI 561520 **origin:** United States. **cultivar:** AR224. **pedigree:** (Tx4804-z/Va35). Self-pollinated for 15+ generations. **remarks:** AES900 maturity inbred. Height average 173cm, ear height average 58cm. Cob white. Grain color deep yellow. Grain size medium-large. Seed and pollen production average. Spring Annual. Breeding Material. Seed.
- PI 561521 **origin:** United States. **cultivar:** AR226. **pedigree:** (Akd52/NC240). Self-pollinated for 18+ generations. **remarks:** AES1000 maturity br2 inbred. Height average 145cm, ear height 43cm. Cob white. Grain color medium yellow. Grain size small. Seed production average. Spring Annual. Breeding Material. Seed.
- PI 561522 **origin:** United States. **cultivar:** AR228. **pedigree:** Composite made from two S2 lines from Ark. SWEB Syn. Self-pollinated for 20+ generations. **remarks:** AES1000 maturity inbred. Height average 180cm, ear height 97cm. Cob white. Grain color medium yellow. Grain size medium. Spring Annual. Breeding Material. Seed.

PI 561515 to 561537-continued

- PI 561523 **origin:** United States. **cultivar:** AR234. **pedigree:** Ark. SWEB Syn. Self-pollinated for 20+ generations. **remarks:** AES900 maturity inbred. Height average 165cm, ear height 79cm. Cob white. Grain color medium deep yellow. Grain size small. Seed production good. Resistance excellent to corn virus complex (maize dwarf mosaile and maize chlorotic dwarf viruses). Spring Annual. Breeding Material. Seed.
- PI 561524 **origin:** United States. **cultivar:** AR240. **pedigree:** (Va35/NC232). Self-pollinated for 18 generations. **remarks:** AES1000 maturity inbred. Height average 175cm, ear height 66cm. Grain color medium yellow. Grain size medium. Seed and pollen production average. Spring Annual. Breeding Material. Seed.
- PI 561525 **origin:** United States. **cultivar:** AR242. **pedigree:** (NC232/Tx501 br2). Self-pollinated for 22+ generations. **remarks:** AES900 maturity br2 inbred. Height average 127cm, ear height 58 inches. Cob white. Grain color light yellow. Grain size medium. Ear shuck protection good. Is prolific. Seed production average. Spring Annual. Breeding Material. Seed.
- PI 561526 **origin:** United States. **cultivar:** AR250. **pedigree:** (AKh42/Mol8). Self-pollinated for 20 generations. **remarks:** AES1000 maturity inbred. Height average 193cm, ear height 74cm. Cob white. Grain color pale yellow. Resistant to corn virus complex (MDM and MCD). Seed and pollen production poor. Spring Annual. Breeding Material. Seed.
- PI 561527 **origin:** United States. **cultivar:** AR254. **pedigree:** (AKd52/NC234). Self-pollinated for 18 generations. **remarks:** AES1000 maturity br2 inbred. Height average 135cm, ear height 43cm. Cob white. Grain color medium yellow. Resistance to corn virus complex (MDM and MCD) good. Seed production good. Spring Annual. Breeding Material. Seed.
- PI 561528 **origin:** United States. **cultivar:** AR258. **pedigree:** (Mol8/NC232). Self-pollinated for 20 generations. **remarks:** AES1000 maturity inbred. Height average 193cm, ear height 48cm. Cob white. Grain color light yellow. Grain size medium. Seed production good. Spring Annual. Breeding Material. Seed.

PI 561515 to 561537-continued

- PI 561529 **origin:** United States. **cultivar:** AR266. **pedigree:** (B14/T204D). Self-pollinated for 20 generations. **remarks:** AES900 maturity br2 inbred. Height average 127cm, ear height 41cm. Cob red. Grain color medium yellow. Grain size medium. Seed production good. Resistance to corn virus complex (MDM and MCD) excellent. Spring Annual. Breeding Material. Seed.
- PI 561530 **origin:** United States. **cultivar:** AR268. **pedigree:** (T232/Tx601D). Self-pollinated for 20 generations. **remarks:** AES1000 maturity br2 inbred. Height average 140cm, ear height 48cm. Cob red. Grain color medium yellow. Grain size medium large. Seed production good. Resistance to corn virus complex (MDM and MCD) excellent. Spring Annual. Breeding Material. Seed.
- PI 561531 **origin:** United States. **cultivar:** AR270. **pedigree:** Derived from P.A.G. 120003. Self-pollinated for 20 generations. **remarks:** AES1000 maturity br2 inbred. Height average 160cm, ear height 33cm. Cob white. Grain color light yellow. Grain size large. Seed production average. Spring Annual. Breeding Material. Seed.
- PI 561532 **origin:** United States. **cultivar:** AR272. **pedigree:** (TX601D/Ab28) Ab 28. Self-pollinated for 15+ generations. **remarks:** AES1000 maturity br2 inbred. Height average 117cm, ear height 30cm. Cob red. Grain color light yellow. Grain size medium. Seed production average. Spring Annual. Breeding Material. Seed.
- PI 561533 **origin:** United States. **cultivar:** AR276. **pedigree:** (AR 214/Ark. S.W.C.B. Syn.). Self-pollinated for 15+ generations. **remarks:** AES1000 maturity inbred. Height average 160cm, ear height 41cm. Cob red. Grain color light yellow. Grain size large. Seed production good. Spring Annual. Breeding Material. Seed.
- PI 561534 **origin:** United States. **cultivar:** AR280. **pedigree:** (AR 224/Tx 441). Self-pollinated for 15+ generations. **remarks:** AES1000 maturity inbred. Height average 165cm, ear height 56cm. Cob red. Grain color light yellow. Seed production good. Spring Annual. Breeding Material. Seed.
- PI 561535 **origin:** United States. **cultivar:** AR296. **pedigree:** (F6/R909). Self-pollinated for 15+ generations. **remarks:** AES900 maturity br2 inbred. Ear height 46cm. Cob white. Grain color light yellow. Grain size small. Seed production average. Spring Annual. Breeding Material. Seed.

PI 561515 to 561537-continued

- PI 561536 **origin:** United States. **cultivar:** AR298. **pedigree:** (AR234/Tx441). Self-pollinated for 15+ generations. **remarks:** AES900 maturity inbred. Ear height 55cm. Cob red. Pericarp dark, brownish-yellow. Grain size medium. Seed production average. Spring Annual. Breeding Material. Seed.
- PI 561537 **origin:** United States. **cultivar:** AR400. **pedigree:** (Ark. 367/Tx 441). Self-pollinated for 15+ generations. **remarks:** AES900 maturity inbred. Ear height 73cm. Cob red. Grain color pinkish-yellow. Grain size medium. Seed production average to good. Spring Annual. Breeding Material. Seed.

PI 561538. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Cash, S.D., Dept. of Plant & Soil Science, 317 Leon Johnson Hall, MSU, Bozeman, Montana 59717, United States. **remarks:** Mede Alfalfa. Received June 06, 1992.

origin: United States. **developed:** S.D. Cash, J.L. Ohlinger, M.H. McCaslin. **origin institute:** VISTA Research, P.O. Box 1428, Woodland, California 95695 United States. **cultivar:** MEDE. **pedigree:** Synthetic with 328 parent plants. GP sources were: 3% *M. falcata*, 4% Ladak, 10% *M. varia*, 11% Turkistan, 43% Flemish, 10% Chilean, 1% Peruvian, 4% Indian, 7% African, 7% Unknown. **other id:** CV-174. **group:** CSR-ALFALFA. **other id:** W6 10526. **group:** W6. **restricted:** CSR. **remarks:** Fall dormancy similar to 'DuPuits.' Resistant to *Fusarium oxysporum* f.sp. *medicaginis*, *Therioaphis maculata*, *Acyrtosiphon kondoi*, *Colletotrichum trifolii* Race 1, *Phytophthora medicaginis*, *A. pisum*, *Clavibacter michiganense* subsp. *insidiosum*, and *Verticillium albo-atrum*. Perennial. Cultivar. Seed.

PI 561539. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Cash, S.D., Dept. of Plant & Soil Science, 317 Leon Johnson Hall, MSU, Bozeman, Montana 59717, United States. **remarks:** Express Alfalfa. Received June 06, 1992.

origin: United States. **developed:** S.D. Cash. **origin institute:** VISTA Research, P.O. Box 1428, Woodland, California 95695 United States. **cultivar:** EXPRESS. **pedigree:** Synthetic with 280 parent plants. GP sources were: 1% *M. falcata*, 2% Ladak, 10% *M. varia*, 11% Turkistan, 39% Flemish, 13% Chilean, 1% Peruvian, 5% Indian, 9% African, 9% Unknown. **other id:** CV-175. **group:** CSR-ALFALFA. **other id:** W6 10527. **group:** W6. **restricted:** CSR. **remarks:** Fall dormancy similar to 'Lahontan.' Resistant to *Phytophthora medicaginis*, *Colletotrichum trifolii* Race 1, *Verticillium albo-atrum*, *Therioaphis maculata*, *Fusarium oxysporum* f.sp. *medicaginis*, *Acyrtosiphon pisum*, *A. kondoi*, *Ditylenchus dipsaci*, and *Clavibacter michiganense* subsp. *insidiosum*. Perennial. Cultivar. Seed.

PI 561540. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Cash, S.D., Dept. of Plant & Soil Science, 317 Leon Johnson Hall, MSU, Bozeman, Montana 59717, United States. **remarks:** DK 189 Alfalfa. Received June 06, 1992.

origin: United States. **developed:** S.D. Cash. **origin institute:** VISTA Research, P.O. Box 1428, Woodland, California 95695 United States. **cultivar:** DK 189. **pedigree:** Synthetic with 370 parent plants. GP sources were: 1% *M. falcata*, 1% Ladak, 3% *M. varia*, 17% Turkistan, 1% Flemish, 7% Chilean, 12% Peruvian, 20% Indian, 35% African, 3% Unknown. **other id:** CV-176. **group:** CSR-ALFALFA. **other id:** W6 10528. **group:** W6. **restricted:** CSR. **remarks:** Fall dormancy similar to 'Moapa 69.' Resistant to *Colletotrichum trifolii* Race 1, *Verticillium albo-atrum*, *Fusarium oxysporum* f.sp. *medicaginis*, *Therioaphis maculata*, *Phytophthora medicaginis*, *Acyrtosiphon pisum*, *A. kondoi*, *Ditylenchus dipsaci*, and *Clavibacter michiganense* subsp. *insidiosum*. Perennial. Cultivar. Seed.

PI 561541. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Cash, S.D., Dept. of Plant & Soil Science, 317 Leon Johnson Hall, MSU, Bozeman, Montana 59717, United States. **remarks:** Jewel Alfalfa. Received June 06, 1992.

origin: United States. **developed:** S.D. Cash, D.E. Brown, M.H. McCaslin. **origin institute:** VISTA Research, P.O. Box 1428, Woodland, California 95695 United States. **cultivar:** JEWEL. **pedigree:** Synthetic with 56 parent plants. GP sources were: 4% *M. falcata*, 6% Ladak, 26% *M. varia*, 3% Turkistan, 55% Flemish, 6% Chilean. **other id:** CV-177. **group:** CSR-ALFALFA. **other id:** W6 10529. **group:** W6. **restricted:** CSR. **remarks:** Fall dormancy similar to 'Saranac.' Resistant to *Clavibacter michiganense* subsp. *insidiosum*, *Verticillium albo-atrum*, *Colletotrichum trifolii* Race 1, *Phytophthora medicaginis*, *Aphanomyces euteiches*, *Leptosphaerulina briosiana*, *Therioaphis maculata*, and *Fusarium oxysporum* f.sp. *medicaginis*. Approx. 85% of plants express multifoliolate character during late summer flowering. Perennial. Cultivar. Seed.

PI 561542. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Cash, S.D., Dept. of Plant & Soil Science, 317 Leon Johnson Hall, MSU, Bozeman, Montana 59717, United States. **remarks:** AlfaLeaf Alfalfa. Received June 06, 1992.

origin: United States. **developed:** S.D. Cash, D.E. Brown, M.H. McCaslin. **origin institute:** VISTA Research, P.O. Box 1428, Woodland, California 95695 United States. **cultivar:** ALFALEAF. **pedigree:** Synthetic with 215 parent plants. GP sources were 5% *M. falcata*, 4% Ladak, 26% *M. varia*, 3% Turkistan, 56% Flemish, 6% Chilean. **other id:** CV-178. **group:** CSR-ALFALFA. **other id:** W6 10530. **group:** W6. **restricted:** CSR. **remarks:** Fall dormancy similar to 'Saranac.' Resistant to *Clavibacter michiganense* subsp. *insidiosum*, *Verticillium albo-atrum*, *Colletotrichum trifolii* Race 1, *Phytophthora medicaginis*, *Aphanomyces euteiches*, *Leptosphaerulina briosiana*, *Therioaphis maculata*, and *Fusarium oxysporum* f.sp. *medicaginis*. Approx. 79% of plants express multifoliolate character during late summer flowering. Perennial. Cultivar. Seed.

PI 561543 to 561544. *Ipomoea trifida* (Kunth) G.Don CONVOLVULACEAE

Donated by: de la Puente, F., CIP, P.O. Box 5969, Lima, Peru. Received May 28, 1992.

PI 561543 **donor id:** CIP 460007. **origin:** Venezuela. Cultivated. Seed.

PI 561544 **donor id:** CIP 460021. **origin:** Venezuela. Cultivated. Seed.

PI 561545 to 561546. *Ipomoea peruviana* O'Don. CONVOLVULACEAE

Donated by: de la Puente, F., CIP, P.O. Box 5969, Lima, Peru.
Received May 28, 1992.

PI 561545 **donor id:** CIP 460126. **origin:** UNKNOWN. Cultivated.
Seed.

PI 561546 **donor id:** CIP 460130. **origin:** UNKNOWN. Cultivated.
Seed.

PI 561547 to 561548. *Ipomoea trifida* (Kunth) G.Don CONVOLVULACEAE

Donated by: de la Puente, F., CIP, P.O. Box 5969, Lima, Peru.
Received May 28, 1992.

PI 561547 **donor id:** CIP 460186. **origin:** Guatemala. Cultivated.
Seed.

PI 561548 **donor id:** CIP 460187. **origin:** Guatemala. Cultivated.
Seed.

PI 561549 to 561550. *Ipomoea x grandifolia* (Dammer) O'Don.
CONVOLVULACEAE

Donated by: de la Puente, F., CIP, P.O. Box 5969, Lima, Peru.
Received May 28, 1992.

PI 561549 **donor id:** CIP 460189. **origin:** UNKNOWN. Cultivated.
Seed.

PI 561550 **donor id:** CIP 460190. **origin:** UNKNOWN. Cultivated.
Seed.

PI 561551. *Ipomoea eriocarpa* R.Br. CONVOLVULACEAE

Donated by: Johnson, B., Queensland Herbarium, Meires Road,
Indooroopilly, Australia. Received May 28, 1992.

donor id: J 50. **origin:** Australia. Cultivated. Seed.

PI 561552. *Ipomoea hederifolia* L. CONVOLVULACEAE

Donated by: Johnson, B., Queensland Herbarium, Meires Road,
Indooroopilly, Australia. Received May 28, 1992.

donor id: J 76. **origin:** Australia. Cultivated. Seed.

PI 561553. *Ipomoea nil* (L.) Roth CONVOLVULACEAE

Donated by: Johnson, B., Queensland Herbarium, Meires Road,
Indooroopilly, Australia. Received May 28, 1992.

donor id: J 185. **origin:** Australia. Cultivated. Seed.

PI 561554. *Ipomoea triloba* L. CONVOLVULACEAE

Donated by: Johnson, B., Queensland Herbarium, Meires Road,
Indooroopilly, Australia. Received May 28, 1992.

donor id: J 217. **origin:** Australia. **restricted:** WEED.
Cultivated. Seed.

PI 561555. *Ipomoea quamoclit* L. CONVOLVULACEAE

Donated by: Johnson, B., Queensland Herbarium, Meires Road,
Indooroopilly, Australia. Received May 28, 1992.

origin: Australia. Cultivated. Seed.

PI 561556. *Ipomoea cairica* (L.) Sweet CONVOLVULACEAE

Donated by: Nagata, K., USDA-APHIS-PPQ, P.O. Box 2549, Kailua -
Kona, Hawaii 96745, United States. Received May 28, 1992.

origin: United States. **locality:** Behind Koele, Lanai.
elevation: 517m. Wild. Seed.

PI 561557. *Ipomoea umbraticola* House CONVOLVULACEAE

Donated by: McDonald, A., Botany Department, University of Texas,
Austin, Texas, United States. Received May 28, 1992.

donor id: McDonald 1989. **origin:** Mexico. Cultivated.
Seed.

PI 561558. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet potato

Donated by: McDonald, A., Botany Department, University of Texas,
Austin, Texas, United States. Received May 28, 1992.

* *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato
donor id: McDonald 1310. **origin:** Mexico. **locality:**
Behind "Vivero Caracol", N of Cd., Tamaulipas.
Cultivated. Seed.

PI 561559. *Ipomoea lacunosa* L. CONVOLVULACEAE

Donated by: Jones, A., Agricultural Research Service -- USDA, US Vegetable Lab, Old Savannah Highway, Charleston, South Carolina, United States. Received May 28, 1992.

donor id: Jones 63.36. **origin:** United States.
Cultivated. Seed.

PI 561560. *Holodiscus discolor* (Pursh) Maxim. ROSACEAE

Donated by: Hohn, T., University of Washington, Washington Park Arboretum, Seattle, Washington, United States. Received March 05, 1991.

origin: United States. **source history:** Received from Hohn to NCGR-Corvallis Dr. T. Hohn, Curator, Washington Park Arb., Seattle. **pedigree:** Collected from the wild in Washington. **locality:** King County, old Steven's Pass Road. **latitude:** 47 deg. 40 min. N. **longitude:** 122 deg. W. **elevation:** 685m. Perennial. Wild. Seed.

PI 561561. *Holodiscus discolor* (Pursh) Maxim. ROSACEAE

Donated by: Borman, Dan, Deer Harbor, Washington, United States. Received March 27, 1992.

origin: United States. **source history:** Collected wild by Borman and received at NGR-Corvallis Dan Borman, Nurseryman, Deer Harbor, Washington. **pedigree:** Collected from the wild in Washington. **collected:** March 1992. **collector:** Dan Borman. **locality:** Deer Harbor area. Perennial. Wild. Plant.

PI 561562. *Holodiscus dumosus* (Nutt.) A. A. Heller ROSACEAE

Donated by: Southwestern Native Seeds, Tucson, Arizona, United States. Received January 30, 1991.

origin: United States. **source history:** Received from Southwestern Native Seeds to NCGR-Corvallis Southwestern Native Seeds, Tucson, Arizona. **pedigree:** Uncertain. Perennial. Cultivated. Seed.

PI 561563. *Gaylussacia baccata* (Wang.) K. Koch ERICACEAE Huckleberry

Donated by: Widrlechner, M.P., USDA/ARS/PIO, Iowa State University, Ames, Iowa, United States. Received August 13, 1987.

origin: United States. **source history:** Seedlot collected wild by Widrlechner and recieved at NCGR- Corvallis M.P. Widrlechner, Plant Intro. Sta., Ames, Iowa. **pedigree:** Collected from the wild in Michigan. **collector:** M.P. Widrlechner. **locality:** Three Rivers State Game Area, Cass County. **latitude:** 42 deg. N. **longitude:** 86 deg. W. **Perennial.** Wild. Seed.

PI 561564. *Gaylussacia baccata* (Wang.) K. Koch ERICACEAE Huckleberry

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

origin: United States. **source history:** Collected wild by Ballington et al and recieved at NCGR- Corvallis Dr. K.E. Hummer, Curator, NCGR-Corvallis. **pedigree:** Collected from the wild in Pennsylvania. **local name:** Black Huckleberry. **collected:** July 23, 1991. **collector:** J.R. Ballington, M.M. Thompson, K.E. Hummer, M.M. Stahler. **locality:** Bear Meadows, top of the hill. **Perennial.** Wild. Seed.

PI 561565. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Hallauer, A.R., Iowa Agric. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011, United States; and Agricultural Research Service -- USDA. **remarks:** No Certificate Requested. Received January 24, 1992.

origin: United States. **developed:** A.R. Hallauer, K.R. Lamkey, W.A. Russell, P.R. White. **origin institute:** Iowa Agric. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011 United States. **cultivar:** B95. **pedigree:** Developed from population of Iowa Corn Borer Synthetic No. 1 after 7 cycles of reciprocal recurrent selection [BSCB1(R) C7-55]. The other population recurrent selection program was Iowa Stiff Stalk Synthetic [BSSS(R)Cn]. **other id:** PL-164. **source:** Crop Sci. 32(6):1515 1992. **group:** CSR-MAIZE. **other id:** Ames 18885. **source:** NC-7. **group:** Ames. **restricted:** CSR. **remarks:** Yellow dent variety. Maturity AES800. Good plant health with good root strength and excellent stalk strength. Greater potential as a male than as a female in the production of single-cross seed. Silk emergence tends to be delayed under heat and drought stress. Potential value in production of hybrid seed and as source of germplasm in pedigree selection breeding programs of the hybrid seed industry. Produced by self-pollination. **Breeding Material.** Seed.

PI 561566 to 561568. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Coffelt, T.A., Agricultural Research Service -- USDA, P.O. Box 7099, Suffolk, Virginia 23437, United States. Received June 11, 1992.

PI 561566 **origin:** United States. **developed:** T.A. Coffelt. **origin institute:** Agricultural Research Service -- USDA, P.O. Box 7099, Suffolk, Virginia 23437 United States. **cultivar:** VA-C 92R. **pedigree:** NC 17213/NC 7. **other id:** VNC 851. **other id:** PVP 9200252. **source:** Pending. **group:** PVPO. **patent:** PVPO. **remarks:** High yielding, Virginia market type peanut. Growth habit spreading. Maturity 145-155 days in Virginia. Pods average 78%, fancy. Kernels 42% extra large, total kernels 73%. Not resistant to common peanut diseases or insects. Averages 50% oleic and 31% linoleic fatty acids with an iodine value of 97. Seed testa pink. Spring Annual. Cultivar. Seed.

PI 561567 **origin:** United States. **developed:** T.A. Coffelt. **origin institute:** Agricultural Research Service -- USDA, P.O. Box 7099, Suffolk, Virginia 23437 United States. **cultivar:** TRC 02057-1. **pedigree:** Argentine/NC 3033. **remarks:** High degree of resistance to sclerotinia blight (*Sclerotinia minor*). Consistently had the lowest disease ratings of over 1,000 peanut lines evaluated. Yield low, making it unacceptable commercially. Growth habit erect. Runner market type. Seed testa dark tan. 100 seed weight average 58 grams. Spring Annual. Breeding Material. Seed.

PI 561568 **origin:** United States. **developed:** T.A. Coffelt. **origin institute:** Agricultural Research Service -- USDA, P.O. Box 7099, Suffolk, Virginia 23437 United States. **cultivar:** VA 910212. **pedigree:** VA 81B/VA 780839. **remarks:** Virginia market type peanut. Maturity early, 135-145 days. Growth habit erect. Branching sparse. Pods 79% fancy. Kernels 33% extra large, total kernels 71%. 51% oleic and 32% linoleic fatty acids. Iodine value 99. Testa deep pink. Major advantages are early maturity and moderate resistance to sclerotinia blight (*Sclerotinia minor*). Spring Annual. Cultivar. Seed.

PI 561569. *Trifolium incarnatum* L. FABACEAE Crimson clover

Donated by: Pratt, R.G., Agricultural Research Service -- USDA, Forage Research Unit, Mississippi State, Mississippi 39762, United States; and Mississippi Agr. and Forestry Exp. Sta.. **remarks:** MSFWRC Crimson Clover Germplasm. Received June 15, 1992.

origin: United States. **developed:** R.G. Pratt, D.E. Rowe.
origin institute: Agricultural Research Service -- USDA,
Forage Research Unit, P.O. Box 5367, Mississippi State,
Mississippi 39762 United States. **cultivar:** MSFWRC.
pedigree: Second generation synthetic from a polycross of
18 half-sib families from a polycross of 94 S4 lines
selected for resistance to Fusarium wilt. All inbred
lines derived from 3 SO plants of Tibbee. **other id:**
GP-1. **group:** CSR-CLOVER, CRIMSON. **restricted:** CSR.
remarks: First germplasm of crimson clover developed with
a high level of resistance to Fusarium wilt (*Fusarium*
oxysporum). All 18 families used manifested high levels
of resistance to Fusarium wilt in comparison to Tibbee
and five other cultivars in repeated tests. Spring
Annual. Breeding Material. Seed.

PI 561570 to 561575. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Kilen, T.C., Agricultural Research Service -- USDA, P.O.
Box 196, Stoneville, Mississippi 38776, United States; and
Mississippi Agr. and Forestry Exp. Sta.. **remarks:** Six Soybean
Germplasms. Received June 15, 1992.

PI 561570 **origin:** United States. **developed:** T.C. Kilen, L.
Lambert. **origin institute:** Agricultural Research Service
-- USDA, P.O. Box 196, Stoneville, Mississippi 38776
United States. **cultivar:** D88-5328. **pedigree:** Tracy-M7 X
D62-7812(D49-24917 X PI 200532). **other id:** GP-149.
group: CSR-SOYBEAN. **restricted:** CSR. **remarks:** One of
six lines released to provide germplasm for entomologists
and geneticists to more precisely define the role of
pubescence in soybean plants' response to foliar-feeding
insects. Near-isogenic for glabrous traits. All other
observable traits are the same as the recurrent parent
Tracy-M. Spring Annual. Breeding Material. Seed.

PI 561571 **origin:** United States. **developed:** T.C. Kilen, L.
Lambert. **origin institute:** Agricultural Research Service
-- USDA, P.O. Box 196, Stoneville, Mississippi 38776
United States. **cultivar:** D88-5320. **pedigree:** Davis7 X
D62-7812(D49-24917 X PI 200532). **other id:** GP-148.
group: CSR-SOYBEAN. **restricted:** CSR. **remarks:** One of
six lines released to provide germplasm for entomologists
and soybean geneticists to more precisely define the role
of pubescence in soybean plants' response to
foliar-feeding insects. Near-isogenic for glabrous
traits. All other observable traits are the same as the
recurrent parent Davis. Spring Annual. Breeding
Material. Seed.

PI 561570 to 561575-continued

- PI 561572 **origin:** United States. **developed:** T.C. Kilen, L. Lambert. **origin institute:** Agricultural Research Service -- USDA, P.O. Box 196, Stoneville, Mississippi 38776 United States. **cultivar:** D90-9220. **pedigree:** D75-101696 X D62-7820(D49-24914 X Majos). **other id:** GP-151. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** One of six lines released to provide germplasm for entomologists and geneticists to more precisely define the role of pubescence in soybean plants' response to foliar-feeding insects. Near-isogenic for dense pubescence. All other observable traits are the same as the recurrent parent D75-10169. Spring Annual. Breeding Material. Seed.
- PI 561573 **origin:** United States. **developed:** T.C. Kilen, L. Lambert. **origin institute:** Agricultural Research Service -- USDA, P.O. Box 196, Stoneville, Mississippi 38776 United States. **cultivar:** D90-9216. **pedigree:** D75-101696 X D62-7812(D49-24917 X PI 200532). **other id:** GP-150. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** One of six lines released to provide germplasm for entomologists and geneticists to more precisely define the role of pubescence in soybean plants' response to foliar-feeding insects. Near-isogenic for glabrous traits. All other observable traits are the same as the recurrent parent D75-10169. Spring Annual. Breeding Material. Seed.
- PI 561574 **origin:** United States. **developed:** T.C. Kilen, L. Lambert. **origin institute:** Agricultural Research Service -- USDA, P.O. Box 196, Stoneville, Mississippi 38776 United States. **cultivar:** D88-5295. **pedigree:** Davis7 X D62-7620(D49-24914 X Majos). **other id:** GP-147. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** One of six lines released to provide germplasm for entomologists and geneticists to more precisely define the role of pubescence in soybean plants' response to foliar-feeding insects. Near-isogenic for dense pubescence. All other observable traits are the same as the recurrent parent Davis. Spring Annual. Breeding Material. Seed.
- PI 561575 **origin:** United States. **developed:** T.C. Kilen, L. Lambert. **origin institute:** Agricultural Research Service -- USDA, P.O. Box 196, Stoneville, Mississippi 38776 United States. **cultivar:** D88-5272. **pedigree:** Tracy-M7 X D62-7820(D49-24914 X Majos). **other id:** GP-146. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** One of six soybean lines released to provide germplasm for entomologists and soybean geneticists to more precisely define the role of pubescence in soybean plants' response to foliar-feeding insects. Near-isogenic for dense pubescence. All other observable traits are the same as the recurrent parent Tracy-M. Spring Annual. Breeding Material. Seed.

PI 561576. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: FFR Cooperative, United States. Received June 15, 1992.

origin: United States. **origin institute:** FFR Cooperative
United States. **cultivar:** FFR 595. **other id:** PVP
9200185. **source:** Pending. **group:** PVPO. **patent:** PVPO.
Cultivar. Seed.

PI 561577. *Phaseolus vulgaris* L. FABACEAE Field bean

Donated by: Gen-Tec Seeds, Ltd., Canada. Received June 15, 1992.

origin: Canada. **origin institute:** Gen-Tec Seeds, Ltd.
Canada. **cultivar:** GTS 0686. **other id:** PVP 9200186.
source: Pending. **group:** PVPO. **patent:** PVPO. Cultivar.
Seed.

PI 561578. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Helena Chemical Company, United States; and d/b/a/
Hyperformer Seed Company, United States. Received June 15, 1992.

origin: United States. **origin institute:** Helena Chemical
Company and, d/b/a Hyperformer Seed Company United
States. **cultivar:** HSC 591. **other id:** PVP 9200187.
source: Pending. **group:** PVPO. **patent:** PVPO. Cultivar.
Seed.

PI 561579. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Levelland Delinting, Inc., United States. Received June
15, 1992.

origin: United States. **origin institute:** Levelland
Delinting, Inc. United States. **cultivar:** ALL-TEX ATLAS.
other id: PVP 9200188. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 561580. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Levelland Delinting, Inc., United States. Received June
15, 1992.

origin: United States. **origin institute:** Levelland
Delinting, Inc. United States. **cultivar:** ALL-TEX MAX-9.
other id: PVP 9200189. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 561581. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received June 15, 1992.

origin: United States. **origin institute:** Asgrow Seed Company United States. **cultivar:** A3200. **other id:** PVP 9200190. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561582. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 15, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** 9232. **other id:** PVP 9200191. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561583. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 15, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** 9351. **other id:** PVP 9200192. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561584. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 15, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** 9062. **other id:** PVP 9200193. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561585. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States. Received June 15, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** 9312. **other id:** PVP 9200194. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561586. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received June 15, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** 9831.
other id: PVP 9200195. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 561587. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Asgrow Seed Company, United States. Received June 15, 1992.

origin: United States. **origin institute:** Asgrow Seed Company United States. **cultivar:** ALLURE. **other id:** PVP 9200196. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561588. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Asgrow Seed Company, United States. Received June 15, 1992.

origin: United States. **origin institute:** Asgrow Seed Company United States. **cultivar:** FLEVORO. **other id:** PVP 9200197. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561589. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ziller Seed Company, Inc., United States. Received June 15, 1992.

origin: United States. **origin institute:** Ziller Seed Company, Inc. United States. **cultivar:** BT 2919. **other id:** PVP 9200198. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561590. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Del Monte Corporation, United States. Received June 15, 1992.

origin: United States. **origin institute:** Del Monte Corporation United States. **cultivar:** DMC 04-14. **other id:** PVP 9200199. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561591. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Del Monte Corporation, United States. Received June 15, 1992.

origin: United States. **origin institute:** Del Monte Corporation United States. **cultivar:** DMC 08-01. **other id:** PVP 9200200. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561592. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Del Monte Corporation, United States. Received June 15, 1992.

origin: United States. **origin institute:** Del Monte Corporation United States. **cultivar:** DMC 08-02. **other id:** PVP 9200201. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561593. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Pure-Seed Testing, Inc., United States. Received June 15, 1992.

origin: United States. **origin institute:** Pure-Seed Testing, Inc. United States. **cultivar:** BRIGHTSTAR. **other id:** PVP 9200202. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561594. *Carica papaya* L. CARICACEAE Papaya

Donated by: City of San Antonio, Texas, United States. Received June 15, 1992.

origin: United States. **origin institute:** City of San Antonio, Texas United States. **cultivar:** SAN ANTONIO EARLY. **other id:** PVP 9200203. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561595. *Carica papaya* L. CARICACEAE Papaya

Donated by: City of San Antonio, Texas, United States. Received June 15, 1992.

origin: United States. **origin institute:** City of San Antonio, Texas United States. **cultivar:** SAN ANTONIO SWEET. **other id:** PVP 9200204. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561596. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Company, Inc., United States. Received June 15, 1992.

origin: United States. **origin institute:** Jacob Hartz Seed Company, Inc. United States. **cultivar:** H507.
other id: PVP 9200205. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 561597. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Company, Inc., United States. Received June 15, 1992.

origin: United States. **origin institute:** Jacob Hartz Seed Company, Inc. United States. **cultivar:** H5566.
other id: PVP 9200206. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 561598. Lactuca sativa L. ASTERACEAE Lettuce

Donated by: Royal Sluis, Koninklikje, Zaaizaadbedrijven Gebroeders Sluis B.V., Netherlands. Received June 15, 1992.

origin: Netherlands. **origin institute:** Royal Sluis, Koninklikje, Zaaizaadbedrijven Gebroeders Sluis B.V. Netherlands. **cultivar:** SEDONA. **other id:** PVP 9200207.
source: Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561599. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Company, Inc., United States. Received June 15, 1992.

origin: United States. **origin institute:** Jacob Hartz Seed Company, Inc. United States. **cultivar:** H5088.
other id: PVP 9200208. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 561600 to 561618. Zea mays L. subsp. mays POACEAE Corn

Donated by: Everett, L.A., IITA-NCRE Project, IRA Bambui Station, Bamenda, Cameroon. Received May 14, 1992.

PI 561600 to 561618-continued

- PI 561600 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90113. **pedigree:** SynA1/87004. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 1, Cercospora zeae-maydis = 3, Physoderma maydis = 1, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561601 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90143. **pedigree:** SynA1/87004. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 1, Cercospora zeae-maydis = 7, Physoderma maydis = 3, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561602 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90147. **pedigree:** SynA1/87004. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 4, Cercospora zeae-maydis = 2, Physoderma maydis = 2, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561603 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90156. **pedigree:** SynA1/87004. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 2, Cercospora zeae-maydis = 2, Physoderma maydis = 2, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561604 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90176. **pedigree:** SynA1/87004. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 3, Cercospora zeae-maydis = 4, Physoderma maydis = 6, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.

PI 561600 to 561618-continued

- PI 561605 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90183. **pedigree:** SynA1/87014. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 2, Cercospora zeae-maydis = 3, Physoderma maydis = 2, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561606 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90188. **pedigree:** SynA1/87014. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 2, Cercospora zeae-maydis = 2, Physoderma maydis = 2, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561607 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90204. **pedigree:** SynA1/87014. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White dent/flint tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 3, Cercospora zeae-maydis = 2, Physoderma maydis = 3, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561608 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90219. **pedigree:** SynA1/87014. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 3, Cercospora zeae-maydis = 2, Physoderma maydis = 4, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561609 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90220. **pedigree:** SynA1/87014. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 2, Cercospora zeae-maydis = 3, Physoderma maydis = 3, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.

- PI 561610 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90263. **pedigree:** SynA1/87036. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 2, Cercospora zeae-maydis = 4, Physoderma maydis = 4, Maize streak virus = 2. Spring Annual. Breeding Material. Seed.
- PI 561611 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90267. **pedigree:** SynA1/87036. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 2, Cercospora zeae-maydis = 4, Physoderma maydis = 3, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561612 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 89320. **pedigree:** M131/S62. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 2, Cercospora zeae-maydis = 3, Physoderma maydis = 3, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561613 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90301. **pedigree:** SynB1/87036. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 3, Cercospora zeae-maydis = 1, Physoderma maydis = 3, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561614 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90313. **pedigree:** SynB1/87036. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: Exserohilum turcicum = 2, Cercospora zeae-maydis = 2, Physoderma maydis = 2, Maize streak virus = 2. Spring Annual. Breeding Material. Seed.

PI 561600 to 561618-continued

- PI 561615 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90323. **pedigree:** SynBl/87036. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: *Exserohilum turcicum* = 3, *Cercospora zeae-maydis* = 3, *Physoderma maydis* = 3, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561616 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 90332. **pedigree:** SynBl/87036. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: *Exserohilum turcicum* = 3, *Cercospora zeae-maydis* = 2, *Physoderma maydis* = 2, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.
- PI 561617 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 89343. **pedigree:** S85/C70. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: *Exserohilum turcicum* = 4, *Cercospora zeae-maydis* = 2, *Physoderma maydis* = 2, Maize streak virus = 2. Spring Annual. Breeding Material. Seed.
- PI 561618 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** 89365. **pedigree:** S85/C70. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** White flint/dent tropical midaltitude inbred. Disease scores 1-9, where 1 = most resistant: *Exserohilum turcicum* = 2, *Cercospora zeae-maydis* = 2, *Physoderma maydis* = 2, Maize streak virus = 1. Spring Annual. Breeding Material. Seed.

PI 561619. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by: Hanna, W.W., Agricultural Research Service -- USDA, University of Georgia, Tifton, Georgia 31793, United States; and Georgia Coastal Plain Exp. Station. **remarks:** Tift 89D2 Pearl Millet Parental Line. Received October 13, 1992.

origin: United States. **developed:** W.W. Hanna, H.D. Wells. **origin institute:** Agricultural Research Service -- USDA, University of Georgia, Tifton, Georgia 31793 United States. **cultivar:** TIFT 89D2. **pedigree:** Tift 23DB/rust resistant plant in variety 'SeFa' from Senegal. **other id:** PL-19. **group:** CSR-MILLET, PEARL. **restricted:** CSR. **remarks:** Highly resistant to rust (*Puccinia substriata* var. *indica*). Resistance expressed as small flecks appearing about 8 days after infection and only a low percentage of flecks develop small sporulating pustules after 12 to 14 days. Resistance appears to be dominant and controlled by more than one locus. Plants flower 64 to 68 days after planting. Plants average 4.4 and 3.2 feet tall, planted June 13 and July 18, respectively. Seeds brownish-gray in color. Spring Annual. Cultivar. Seed.

PI 561620 to 561623. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Everett, L.A., IITA-NCRE Project, IRA Bambui Station, Bamenda, Cameroon. Received May 14, 1992.

PI 561620 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** ACID TOLERANT POPULATION (ATP). **pedigree:** Parents: ESAL QYF3, Q5VF1 (Brazil), CMS 36 SAFRI (CIMMYT/Brazil), HE1066, 1049 (Limagrain), Suwan 1 (Thailand) Across 7728 (CIMMYT), COCA (Cameroon), Shaba (Zaire), MSR (IITA). **other id:** IB91B-C8-904. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Yellow flint grained, late maturing tall tropical midaltitude (1000-1500m) open pollinated variety. Resistant to *Exserohilum turcicum* and ear rots. Moderately resistant to maize streak virus and *Puccinia sorghi*. Moderate lodging resistance. Selected on acid, phosphorus deficient soils at 1200-1400m altitude in Western Highlands of Cameroon. Spring Annual. Breeding Material. Seed.

- PI 561621 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** EARLY WHITE POPULATION. **pedigree:** 50% midaltitude reselected CIMMYT Subtropical Population 34, and 50% early S3 lines from population MSR. Maintained in ear to row isolation recombination/selection. **other id:** IB91B-C8-901. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Early maturing, white flint grained, tropical midaltitude (1000-1400m) population. Moderately resistant to Exserohilum turcicum, Puccinia sorghi, and maize streak virus. Short statured and lodging resistant. Formed and improved in Western Highlands (1000-1300m altitude sites) of Cameroon. Spring Annual. Breeding Material. Seed.
- PI 561622 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** SYNTHETIC 4, WHITE. **pedigree:** Varietal synthetic formed from the following midaltitude inbred lines: M87, M131, 87036, 88069, 89199, 89243, 89258, 89292-293, 89302, 89310. Recombined three times, reselected for maize streak virus resistance. **other id:** IB91B-EN7-909. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Late maturing, medium stature, white flint/dent tropical midaltitude (1000-1500m) varietal synthetic. Resistant to Exserohilum turcicum, Puccinia sorghi, and maize streak virus. Resistant to lodging. Moderately resistant to ear rots. Highest yielding open pollinated variety in West African midaltitudes in 1991. Spring Annual. Breeding Material. Seed.
- PI 561623 **origin:** Cameroon. **developed:** L.A. Everett. **origin institute:** IITA-NCRE Project, IRA Bambui Station, Bamenda Cameroon. **cultivar:** MSR-SU SWEETCORN. **pedigree:** Population MSR and Synthetic 3 recurrent parents to BC2. Primarily U.S. inbreds as donors of su-2. **other id:** IB91B-C8-903. **locality:** African tropical midaltitudes (1000-1500m altitude, 6 deg. N latitude). **remarks:** Late maturing, mixed color, tropical midaltitude (1000-1400m) sweetcorn population obtained by backcross transfer of the su-2 gene from various sources; the MSR population and Synthetic 3 were recurrent parents. Moderate resistance to Exserohilum turcicum, Puccinia sorghi, and maize streak virus. Moderately resistant to lodging. Spring Annual. Breeding Material. Seed.

PI 561624 to 561654. *Solanum tuberosum* L. SOLANACEAE White potato

Donated by: Bamberg, John, USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin 54235, United States. Received July 16, 1991.

- * PI 561624 *Solanum ochranthum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** April 16, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5000. **other id:** Q 28468. **locality:** Calacali. 2 km by road north and then turning south of Calacali, near Finca Yacucucho. **latitude:** 00 deg. 02 min. N. **longitude:** 78 deg. 30 min. W. **elevation:** 2980m. **remarks:** Growing over bushes in sunny area. Abundant in area. Fruits mature. Petals yellow. Wild. Seed.

- * PI 561625 *Solanum colombianum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** April 18, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5004. **other id:** Q 28469. **locality:** Nevado Cayambe. By trail on west end of Laguna San Marcos, near south end of lake. **latitude:** 00 deg. 08 min. N. **longitude:** 77 deg. 58 min. W. **elevation:** 3450m. **remarks:** In mucky soil. Corolla white. Fruits maturing to mature. Wild. Seed.

- * PI 561626 *Solanum colombianum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** April 18, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5005. **other id:** Q 28470. **locality:** Nevado Cayambe. Canton Pedro Maoncayo, 4.1 km west of guardhouse at south end of Laguna San Marcos. **latitude:** 00 deg. 07 min. N. **longitude:** 77 deg. 58 min. W. **elevation:** 3680m. **remarks:** In mucky soil, on steep bank growing among *Rumex* sp. and *Stipa* sp. Corolla white, slightly tinged with blue. Leaves with 2-3 laterals. Some leaves with interjected leaflets, some without. Leaves shiny. Wild. Seed.

- * PI 561627 *Solanum colombianum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** April 18, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5006. **other id:** BE-3520. **other id:** Q 28471. **locality:** Nevado Cayambe. By road at south end of Laguna San Marcos. **latitude:** 00 deg. 08 min. S. **longitude:** 77 deg. 58 min. W. **elevation:** 3450m. **remarks:** In mucky soil. Corolla white. Fruits long-conical, maturing to mature. Wild. Seed.

- * PI 561628 *Solanum tuquerrense* Hawkes SOLANACEAE White potato
donor id: SCLp 5007. **origin:** Ecuador. **collected:** April 19, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5007. **other id:** BE-3520. **other id:** Q 28472. **locality:** Lacunga. On road from Quito to Lacunga, 8.1 km south of Pichinca-Cotopaxi Provinces; 5.3 km south from entrance to Cotopaxi National Park, about 60 m east of road. **latitude:** 0 deg. 39 min. S. **longitude:** 78 deg. 40 min. W. **elevation:** 3495m. **remarks:** In Pinus plantation, in disturbed soil near garbage dump, with *Phytolacca*. Corolla blue, rotate. Fruits long-conical, mature and maturing. Wild. Seed.

- * PI 561629 *Solanum ochranthum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** April 22, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5008. **other id:** BE-3520. **other id:** Q 28473. **locality:** In Barrio Santa Rosa de Singuna, where road from Quito-Nono crosses Quebrada Singuna, just west of Quito. **latitude:** 00 deg. 06 min. S. **longitude:** 78 deg. 30 min. W. **elevation:** 3000m. **remarks:** In moist quebrada. Fruits scarce. Wild. Seed.

- * PI 561630 *Solanum juglandifolium* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** April 23, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5010. **other id:** BE-3520. **other id:** Q 28474. **locality:** Quito. 13 km west of San Juan, on road to Chiriboga, 1.6 west of oil pumping station "El Corazon". **latitude:** 00 deg. 00 min. S. **longitude:** 17 deg. 78 min. W. **elevation:** 2706m. **remarks:** On roadside, in rainforest. Flowers and mature fruits present. Wild. Seed.

- * PI 561631 *Solanum tuquerrense* Hawkes SOLANACEAE White potato
origin: Ecuador. **collected:** April 26, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5022. **other id:** BE-3520. **other id:** Q 28478. **locality:** Nono. Mount Pichincha, on road to antennas, on west side of Quito, about antenna cluster. **latitude:** 00 deg. 10 min. S. **longitude:** 78 deg. 32 min. W. **elevation:** 3870m. **remarks:** In open sun and among bushes. Plants abundant, very variable variable. Corolla rotate to rotate-pentagonal, light blue to dark blue. Fruits conical. Wild. Seed.

- * PI 561632 *Solanum tuquerrense* Hawkes SOLANACEAE White potato
origin: Ecuador. **collected:** April 26, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5023. **other id:** BE-3520. **other id:** Q 28479.
locality: Nono. Mount Pichincha, on road to antennas, on
west side of Quito, about antenna cluster. **latitude:** 00
deg. 10 min. S. **longitude:** 78 deg. 32 min. W.
elevation: 3870m. **remarks:** In open sun and among bushes.
Plants abundant, very variable. Corollas rotate to
rotate-pentagonal, light blue to dark blue. Fruits
ovoid-conical. Wild. Seed.

- * PI 561633 *Solanum colombianum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** April 27, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5025. **other id:** BE-3520. **other id:** Q 28480.
locality: Quito. 15.5 km west of Lloa, in Quebreda de
Palma, on north side of road. **latitude:** 00 deg. 12 min.
S. **longitude:** 78 deg. 38 min. W. **elevation:** 2720m.
remarks: In open sun, in moist soil among grasses,
Calceolaria, *Solanum nigrum*, Gunnera, Chusquea. Leaves
pub. above, not shiny, with 4-5 laterals and interjected
leaflets. Corolla small, white, rotate pentagonal. Fruits
long-conical, 43 fruits collected from 5 plants. Wild.
Seed.

- * PI 561634 *Solanum juglandifolium* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** April 29, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5029. **other id:** BE-3520. **other id:** Q 28481.
locality: Manuel Cornejo A. Along south side of new road
from Quito- Santo Domingo de Los Colorados. 1.5 km
northwest of crossing with Rio Corazon. **latitude:** 00
deg. 27 min. S. **longitude:** 78 deg. 46 min. W.
elevation: 1750m. **remarks:** On slope. Fruits maturing to
mature. Wild. Seed.

- * PI 561635 *Solanum albornozii* Correll SOLANACEAE White potato
origin: Ecuador. **collected:** May 01, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5030. **other id:** BE-3520. **other id:** Q 28482.
locality: Catamayo. 300-500 m south of old road from
Loja-Catamayo, about 2 km west of junction with dirt road
to Duraznillo (at site of shrine by road). **latitude:** 04
deg. 00 min. S. **longitude:** 79 deg. 17 min. W.
elevation: 2350m. **remarks:** Among bushes and in open sun
along stream. Topotype collection (collected in same area
as the type specimen) of *S. albornozii*. Corolla white,
rotate-stellate. Fruits maturing to mature. 100 fruits
collected from 10 plants. Wild. Seed.

- * PI 561636 *Solanum albornozii* Correll SOLANACEAE White potato
origin: Ecuador. **collected:** May 01, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5032. **other id:** BE-3520. **other id:** Q 28483.
locality: Catamayo. On old road from Loja to Catamayo,
on south slope of Cerro Villonaco, at junction of dirt
road to Duraznillo. **latitude:** 04 deg. 00 min. S.
longitude: 70 deg. 16 min. W. **elevation:** 2630m.
remarks: Under shrubs along stream. Corolla white,
rotate-stellate. Fruits maturing to mature. 100 fruits
collected from 8 plants. Wild. Seed.

- * PI 561637 *Solanum albornozii* Correll SOLANACEAE White potato
origin: Ecuador. **collected:** May 01, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5033. **other id:** BE-3520. **other id:** Q 28484.
locality: Catamayo. 3.6 km southwest (on way to Loja),
of junction of old Loja-Catamayo road and dirt road to
Duraznillo, on slope facing (to west) of Loja. **latitude:**
04 deg. 00 min. S. **longitude:** 79 deg. 15 min. W.
elevation: 2610m. **remarks:** On slope among bushes.
Corolla white, rotate-stellate. Fruits maturing to
mature. Wild. Seed.

- * PI 561638 *Solanum juglandifolium* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** May 03, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5039. **other id:** BE-3520. **other id:** Q 28485.
locality: Loja Norte. 8.9 km west of Sabanillas on old
road to Loja, 2.5 km west of divergence of old and new
roads. **latitude:** 03 deg. 58 min. S. **longitude:** 79 deg.
05 min. W. **elevation:** 2200m. **remarks:** Growing over
bushes. Fruits abundant, mature. Wild. Seed.

- * PI 561639 *Solanum ochranthum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** May 05, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5042. **other id:** BE-3520. **other id:** Q 28487.
locality: Santiago. On new road from Loja-Cuenca, 7.8 km
north of bridge in Santiago. **latitude:** 03 deg. 42 min.
S. **longitude:** 79 deg. 17 min. W. **elevation:** 2400m.
remarks: Growing on rocky cliffs. Note: Because the map
used does not have the new road drawn, the coordinates
are approximate. Fruits maturing to mature. Wild. Seed.

- * PI 561640 *Solanum colombianum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** May 09, 1991. **collector:**
 D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5062. **other id:** BE-3520. **other id:** Q 28493.
locality: Canar. H. Cocha Huma, 200-400 m west of dirt
 road, on hill on east side of flat bog called Cocha Huma,
 about 22 km (by air) east-southeast of town of Canar.
latitude: 02 deg. 32 min. S. **longitude:** 78 deg. 47 min.
 W. **elevation:** 3410m. **remarks:** Growing in 10 year old
 pine plantation among grasses, area little if any
 disturbed by cattle. Type locality is vague. Corolla
 white, rotate. Fruits conical, maturing to mature. Wild.
 Seed.

- * PI 561641 *Solanum colombianum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** May 09, 1991. **collector:**
 D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5063. **other id:** BE-3520. **other id:** Q 28494.
locality: Canar. H. Cocha Huma, 200-400 m west of dirt
 road, on hill on east side of flat bog called Cocha Huma,
 about 22km (by air) east-southeast of town of Canar.
latitude: 02 deg. 32 min. S. **longitude:** 78 deg. 47 min.
 W. **elevation:** 3410m. **remarks:** In ten year old pine
 plantation among grasses. Little if any disturbed by
 cattle. Corolla light blue, rotate. Fruits conical.
 Maturing to mature. Wild. Seed.

- * PI 561642 *Solanum acaule* Bitter subsp. *acaule* SOLANACEAE White
 potato
origin: Ecuador. **collected:** May 11, 1991. **collector:**
 D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5070. **other id:** BE-3520. **other id:** Q 28495.
locality: Palmira. On Loma Mayocancha, at Estacion
 Experimental Paramo Moyocancha, 11.4 km east of
 Tixan-Palmira road, 3.3 km south of Cocan. **latitude:** 02
 deg. 09 min. S. **longitude:** 78 deg. 43 min. W.
elevation: 3750m. **remarks:** Growing among *Stipa ichu*.
 Plants in all stages of maturity from flowers to mature
 fruit. Wild. Seed.

- * PI 561643 *Solanum paucijugum* Bitter SOLANACEAE White potato
origin: Ecuador. **collected:** May 17, 1991. **collector:**
 D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5084. **other id:** BE-3520. **other id:** Q 28499.
locality: Sicalpa. In Quebrada Camal, on north side of
 road from Sicalpa-Pallatanga, 13.2 km southwest of
 Sicalpa road junction with road to Ocpote. **latitude:** 1
 deg. 44 min. S. **longitude:** 78 deg. 48 min. W.
elevation: 3770m. **remarks:** In valley among *Stipa ichu*.
 Corolla light blue to dark purple, rotate-pentagonal.
 Acumens medium to long. Fruits medium-conical. Leaves
 vary much in size. Wild. Seed.

- * PI 561644 *Solanum paucijugum* Bitter SOLANACEAE White potato
donor id: SCLp 5094. **origin:** Ecuador. **collected:** May 21, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5094. **other id:** BE-3520. **other id:** Q 28504. **locality:** Cotopaxi. In Parque Nacional Cotopaxi, on north side of park road, 0.8 km east of northernmost park control station off of Quito-Latacunga Road. **latitude:** 00 deg. 36 min. S. **longitude:** 78 deg. 40 min. W. **elevation:** 3460m. **remarks:** Growing in pine plantation. Note: latitude & longitude approximate as Latacunga topographic map unavailable. Corolla blue, rotate. Fruits maturing to mature. Wild. Seed.

- * PI 561645 *Solanum paucijugum* Bitter SOLANACEAE White potato
donor id: SCLp 5097. **origin:** Ecuador. **collected:** May 21, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5097. **other id:** BE-3520. **other id:** Q 28508. **locality:** Cotopaxi. In parque Nacional Cotopaxi, at KM 6, about 200m north of Rio Daule on park road to Mariscal Sucre. **latitude:** 00 deg. 40 min. S. **longitude:** 78 deg. 39 min. W. **elevation:** 3350m. **remarks:** Growing in pine plantation. Corolla blue, rotate. Fruits maturing to mature. 25 fruits collected from 8 plants. Wild. Seed.

- * PI 561646 *Solanum tuquerrense* Hawkes SOLANACEAE White potato
origin: Ecuador. **collected:** May 27, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5111. **other id:** BE-3520. **other id:** Q 28513. **locality:** San Pablo del Lago. At Curiquingue, about 6 km (by air) east-southeast of Ibarra, 17.0 km from main road from Ibarra to Tulcan at El Olivo (on road that passes Yuracruz). **latitude:** 00 deg. 20 min. N. **longitude:** 78 deg. 04 min. W. **elevation:** 3450m. **remarks:** In recently cut and burned forest on steep slope. Corolla blue, rotate. Fruits maturing to mature. Wild. Seed.

- * PI 561647 *Solanum tuquerrense* Hawkes SOLANACEAE White potato
origin: Ecuador. **collected:** May 31, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5119. **other id:** BE-3520. **other id:** Q 28515. **locality:** Papallacta. Along old Quito-Baeza Road, 4.9 km east of statue of Virgin at crest of Sierra, 9.5 km west of police control station at Papallacta. **elevation:** 3720m. **remarks:** Corolla white, rotate, Fruits conical, maturing to mature. Root fibrous. Wild. Seed.

- * PI 561648 *Solanum andreanum* Baker SOLANACEAE White potato
origin: Ecuador. **collected:** June 02, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5126. **other id:** BE-3520. **other id:** Q 28518.
locality: Cosanga. About 2 hr. walk west of Baeza-Tena
Road, south of Rio Bermejo, on farm of Jose Guaranda
Guambi in Nueva Andalucia de Bermejo. **latitude:** 00 deg.
32 min. S. **longitude:** 77 deg. 55 min. W. **elevation:**
2100m. **remarks:** Growing in pasture in recently cut
forest. Corolla purple, rotate-pentagonal. Fruits
maturing to mature, ovoid. 60 fruits collected from 10
plants. Wild. Seed.
- * PI 561649 *Solanum andreanum* Baker SOLANACEAE White potato
origin: Ecuador. **collected:** June 02, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5127. **other id:** BE-3520. **other id:** Q 28519.
locality: Baeza. About trail to antennas on south side
of Baeza, about 1 km (by air) south-southwest of center
of town. **latitude:** 00 deg. 27 min. S. **longitude:** 77
deg. 53 min. W. **elevation:** 2220m. **remarks:** Growing in
grassy pasture and under shade of trees. Corolla purple,
rotate-pentagonal. Fruits maturing to mature, ovoid. 75
fruits collected from 15 plants. Wild. Seed.
- * PI 561650 *Solanum paucijugum* Bitter SOLANACEAE White potato
origin: Ecuador. **collected:** June 03, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5129. **other id:** BE-3520. **other id:** Q 28520.
locality: Macachi. In Parque Nacional Cotopaxi, 10.5 km
east of Proyecto Llamas Station on road to Refugio
Cotopaxi, 0.4 km west of Centro Administrativo Mariscal
Sucre. **latitude:** 00 deg. 39 min. S. **longitude:** 78 deg.
30 min. W. **elevation:** 3610m. **remarks:** Scattered in duff
of pine plantation. Corolla blue, rotate. Fruits maturing
to mature. 15 fruits collected from 5 plants. Wild.
Seed.
- * PI 561651 *Solanum paucijugum* Bitter SOLANACEAE White potato
origin: Ecuador. **collected:** June 05, 1991. **collector:**
D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector**
id: SCLp 5130. **other id:** BE-3520. **other id:** Q 28521.
locality: Simiatug. 30.5 km southeast of Ambato on road
to Guaranda, beginning at junction of road in Ambato, at
Tamboloma. **latitude:** 01 deg. 18 min. S. **longitude:** 78
deg. 46 min. W. **elevation:** 3580m. **remarks:** Growing
under pine trees. Corolla blue, rotate. Fruits maturing
to mature. Wild. Seed.

PI 561624 to 561654-continued

- * PI 561652 *Solanum colombianum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** June 10, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5135. **other id:** BE-3520. **other id:** Q 28522. **locality:** Banos. 1 km south of end of new stone road to Runtun, which ends 12.0 km from main east-west road through Banos. **latitude:** 01 deg. 26 min. S. **longitude:** 78 deg. 25 min. W. **elevation:** 3200m. **remarks:** Growing at edges of cleared forest. Corolla white, rotate-pentagonal. Fruits conical. Wild. Seed.

- * PI 561653 *Solanum colombianum* Dunal SOLANACEAE White potato
origin: Ecuador. **collected:** June 16, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5140. **other id:** BE-3520. **other id:** Q 28524. **locality:** Juncal. In Quebrada Talanquera, just south of Cerro Torre, north of San Antonio, on road from Guayaquil-Canar. **latitude:** 02 deg. 28 min. S. **longitude:** 78 deg. 56 min. W. **elevation:** 3500m. **remarks:** Growing in mucky soil in shade of cliff with water running down it. Corolla pale blue. Fruits conical, maturing to mature. Wild. Seed.

- * PI 561654 *Solanum paucijugum* Bitter SOLANACEAE White potato
origin: Ecuador. **collected:** June 19, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5151. **other id:** BE-3520. **other id:** Q 28527. **locality:** Palmira. 36 km from Guamote main north-south road on road to Atillo. **latitude:** 02 deg. 05 min. S. **longitude:** 78 deg. 37 min. W. **elevation:** 3600m. **remarks:** Growing among *Stipa* itchu grassland and among bushes. Stems low growing. Corolla blue, rotate, Fruits round to short- conical, abundant. Wild. Seed.

PI 561655 to 561663. *Solanum* sp. SOLANACEAE Potato

Donated by: Bamberg, John, USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin 54235, United States. Received August 12, 1991.

- * PI 561655 *Solanum ochranthum* Dunal SOLANACEAE Potato
donor id: SCLp 5043. **origin:** Ecuador. **collected:** May 05, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5043. **other id:** BE-3569. **other id:** Q 28574. **locality:** Santiago. Growing under bridge, 9.1 km north of bridge in Santiago on new road from Loja-Cuenca. **latitude:** 03 deg. 41 min. S. **longitude:** 79 deg. 17 min. W. **elevation:** 2440m. **remarks:** Growing on rocky cliff. Note: Because the map used does not have the new road drawn, the coordinates are approximate. Fruits maturing to mature. Wild. Seed.

- * PI 561656 *Solanum ochranthum* Dunal SOLANACEAE Potato
donor id: SCLp 5109. **origin:** Ecuador. **collected:** May 27, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5109. **other id:** BE-3569. **other id:** Q 28588. **locality:** San Pablo del Lago. Along stream in Quebrada de Chilca, about 3 km southeast of La Rinconada. **latitude:** 00 deg. 15 min. N. **longitude:** 78 deg. 03 min. W. **elevation:** 3000m. **remarks:** Growing in full sun over bushes next to stream in grazed area. Flowers, maturing to mature. Fruits present. Wild. Seed.

- * PI 561657 *Solanum colombianum* Dunal SOLANACEAE Potato
donor id: SCLp 5118. **origin:** Ecuador. **collected:** May 31, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5118. **other id:** BE-3569. **other id:** Q 28590. **locality:** Oyacachi. Along Quito-Baeza Road, 7.2 km west of statue of Virgin at crest of sierra. **latitude:** 00 deg. 17 min. S. **longitude:** 78 deg. 14 min. W. **elevation:** 3660m. **remarks:** Growing among *Stipa ichu*. Corolla blue, rotate. Fruits just forming, conical. Tubers moniliform, white to light brown, abundant. Wild. Seed.

- * PI 561658 *Solanum andreanum* Baker SOLANACEAE Potato
donor id: SCLp 5133. **origin:** Ecuador. **collected:** June 07, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5133. **other id:** BE-3569. **other id:** Q 28593. **locality:** San Miguel de Bolivar. Loma Chuchi, by road to antennas of IETEL station, near El Tambo de Gobierno. **latitude:** 01 deg. 42 min. S. **longitude:** 79 deg. 05 min. W. **elevation:** 3000m. **remarks:** In recently cleared or burned fields, among grasses and other low vegetation. Corollas white tinged with blue to all blue (on separate plants). Fruits maturing to mature, round to ovoid-conical. Wild. Seed.

- * PI 561659 *Solanum colombianum* Dunal SOLANACEAE Potato
donor id: SCLp 5139. **origin:** Ecuador. **collected:** June 15, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5139. **other id:** BE-3569. **other id:** Q 28595. **locality:** Juncal. On Cerro Carshau, 500 m northeast of road to antennas in Quebrada Guallicanga, 8.0 km north of main Guayaquil-Canar road at Paico Alto. **latitude:** 02 deg. 28 min. S. **longitude:** 78 deg. 57 min. W. **elevation:** 3480m. **remarks:** At base of rock with water running over it, in mucky soil, in partial shade. Plants to 3m long. Corolla blue, rotate. Fruits maturing to mature. Wild. Seed.

- * PI 561660 *Solanum andreanum* Baker SOLANACEAE Potato
donor id: SCLp 5152. **origin:** Ecuador. **collected:** June 19, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5152. **other id:** BE-3569. **other id:** Q 28600. **locality:** Morona Santiago. About 16 km NW of San Vicente, on old footpath on south side of Rio Upano on way to San Vicente and Nueve de Octubre, in Sanay. **latitude:** 02 deg. 10 min. S. **longitude:** 78 deg. 25 min. W. **elevation:** 2650m. **remarks:** Growing in recently cleared forest area in full sun among fallen logs and brush. Leaves green to blue underneath. Corolla violet, rotate. Fruits round to round-ovate, maturing to mature. Coordinates approximate as no topographic map available. Wild. Seed.
- * PI 561661 *Solanum andreanum* Baker SOLANACEAE Potato
origin: Ecuador. **collected:** June 20, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5155. **other id:** BE-3569. **other id:** Q 28602. **locality:** Morona Santiago. About 10 km NW of San Vicente, on old footpath on south side of Rio Upano, on way to San Vicente and Nueve de Octubre. **latitude:** 02 deg. 10 min. S. **longitude:** 78 deg. 24 min. W. **elevation:** 2550m. **remarks:** Growing in sunny area by path. Leaves green to blue underneath. Corolla violet, rotate. Fruits round to round-ovate, maturing to mature. Coordinates approximate as no topographic map available. Wild. Seed.
- * PI 561662 *Solanum andreanum* Baker SOLANACEAE Potato
donor id: SCLp 5157. **origin:** Ecuador. **collected:** June 20, 1991. **collector:** D.M. Spooner, R. Castillo T., L.E. Lopez J.. **collector id:** SCLp 5157. **other id:** BE-3569. **other id:** Q 28603. **locality:** On old footpath from San Vicente to Nueve de Octubre, about 7 km east of San Vicente, on south side of Rio Upano, about 300 m west of Rio San Francisio. **latitude:** 02 deg. 12 min. S. **longitude:** 78 deg. 23 min. W. **elevation:** 2350m. **remarks:** In wet organic soil by shaded footpath. Leaves green to blue underneath. Corolla violet, rotate. Fruits round to ovoid maturing to mature. Coordinates approximate as no topographic map available. Type specimen locality of *S. serratoris*. Wild. Seed.

PI 561655 to 561663-continued

- * PI 561663 *Solanum juglandifolium* Dunal SOLANACEAE Potato
donor id: SCLp 5158. origin: Ecuador. collected: June
27, 1991. collector: D.M. Spooner, R. Castillo T., L.E.
Lopez J.. collector id: SCLp 5158. other id: BE-3569.
other id: Q 28604. locality: Morona Santiago. Cordillera
de los Huacamayos, 10.0 km SE of bridge over Rio Cosanga,
in Cosanga, in headwaters of Rio Urcusiqui, by roadside.
latitude: 00 deg. 37 min. S. longitude: 77 deg. 49 min.
W. elevation: 2200m. remarks: On slope by roadside.
Maturing and mature fruits present. Wild. Seed.

PI 561664 to 561671. *Fagopyrum esculentum* Moench POLYGONACEAE
Buckwheat

Donated by: NBPGR, Regional Station, Phagli, Shimla-171 004, India.
Received June 19, 1992.

- PI 561664 donor id: I.C. 42417. origin: India. locality:
Darjeeling district. Cultivated. Seed.
- PI 561665 donor id: I.C. 79204. origin: India. locality: Kinnaur
district. Cultivated. Seed.
- PI 561666 donor id: I.C. 41644. origin: India. Cultivated. Seed.
- PI 561667 donor id: I.C. 79218. origin: India. locality: Mandi
district. Cultivated. Seed.
- PI 561668 donor id: E.C. 101485. origin: Poland. Cultivated.
Seed.
- PI 561669 donor id: E.C. 286378. origin: Hungary. Cultivated.
Seed.
- PI 561670 donor id: N.C. 67098. origin: India. locality: Chamba
district. Cultivated. Seed.
- PI 561671 donor id: N.C. 67103. origin: India. locality: Chamba
district. Cultivated. Seed.

PI 561672. *Gossypium hirsutum* L. MALVACEAE Upland cotton

Donated by: Opondo, R.M., Kenya Agr. Res. Inst., National Fibre
Research Ctr, Kibos, P.O. Box 1490, Kisumu, Kenya. remarks: KSA81M
Upland Cotton. Received June 25, 1992.

origin: Kenya. **developed:** R.M. Opondo, R.S. Pathak, G.A. Ombakho. **origin institute:** Kenya Agr. Res. Inst., National Fibre Research Ctr, Kibos, P.O. Box 1490, Kisumu Kenya. **cultivar:** KSA81M. **pedigree:** Selection in Nigerian Allen yielded Albar 51. This cv. crossed to Mwanza Local cvs, and subsequent selection produced UKA67. Further sel. in UKA67 yielded UKA59/240. KSA8M is multiline of selections in UKA59/240. **other id:** CV-102. **group:** CSR-COTTON. **remarks:** Height 98cm. Matures 140 days after emergence. Leaves and uppermost section of stem are pubescent. Seed cotton weight per boll is 5g. Lint percentage 35.1. Seed index 9.4g. Seeds fuzzy, of grade 5.83, based on a visual grading of 1 to 8 for seedcoat fuzz. Major pests for this cv. in Kenya are *Helicoverpa armigera*, *Dysdercus* spp., *Earias* spp., *Tetranychus* spp., *Bemisia tabaci*, *Lygus* spp., and *Pectinophora gossypiella*. Resistant to *Xanthomonas campestris* pv *malvacearum*, *Empoasca* spp., and *Aphis gossypii*. Spring Annual. Cultivar. Seed.

PI 561673. *Arachis hypogaea* subsp. *fastigiata* Waldron FABACEAE
Groundnut

Donated by: Dwivedi, S.L., ICRISAT, Patancheru P.O., Andhra Pradesh 502 324, India; and Nyankpala Agr. Exp. Sta.. **remarks:** Sinkarzei Groundnut. Received June 25, 1992.

origin: India. **developed:** S.N. Nigam, K.O. Marfo, M.A. Assibi, S.L. Dwivedi, Y.L.C. Rao, R.W. Gibbons. **origin institute:** ICRISAT, Patancheru P.O., Andhra Pradesh 502 324 India. **cultivar:** SINKARZEI. **pedigree:** [(Gaug 1/NC Ac 17090)/Kadiri 3] F2-B1-B3-B4-B2-B1. **other id:** CV-48. **group:** CSR-PEANUT. **remarks:** Spanish cultivar group. Growth habit decumbent-1. Leaves medium sized. Matures in 102 days. 2-1 seeded pods with moderate constriction and reticulation. Meat content 78%. Seeds deep red colored, weigh 62g/100 seed. Oil content averages 45%. Spring Annual. Cultivar. Seed.

PI 561674. *Secale cereale* L. subsp. *cereale* POACEAE

Donated by: California Agr. Exp. Sta., California, United States. Received 1960.

origin: UNKNOWN. **cultivar:** SVALOF FOUREX. **remarks:** Tetraploid, does best in lighter soils. Excels in plant height and dry matter production. Normally a spring rye, not especially winter hardy. Yellow dwarf and root rot resistant. Cultivar. Seed.

PI 561675. *Secale cereale* L. subsp. *cereale* POACEAE

Donated by: Tennessee Agr. Exp. Sta., Tennessee, United States.
Received 1967.

origin: United States. **developed:** C.O. Qualset, P.E. Hoskinson. **origin institute:** Tennessee Agr. Exp. Sta., Knoxville, Tennessee United States. **cultivar:** TENN 4062. **pedigree:** Population developed from 43 collections of Balbo from 14 states and 10 other cultivars (Caribou, Emory, Elbon, Elk, Explorer, Gator, Pierre, Rosen, Weser, Wrens Abruzzi). **remarks:** Erect fall growth habit. Adequate winter hardiness for much of the winter regions. Seed for source population is a composite harvested from open-pollinated Balbo collections. Crop Sci. 6(2):219 1966. Cultivar. Seed.

PI 561676 to 561689. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Hammons, R. O., USDA, ARS, Crops Research Unit, Tifton, Georgia 31794, United States. Received 1981.

PI 561676 **origin:** United States. **cultivar:** TIFRUST-1. **other id:** GP-18. **source:** Crop Sci. 22(2):453 1982. **group:** CSR-PEANUT. **remarks:** Purple testa, 59A in R.H.S. colour chart. Cultivar. Seed.

PI 561677 **origin:** United States. **cultivar:** TIFRUST-2. **other id:** GP-19. **source:** Crop Sci. 22(2):453 1982. **group:** CSR-PEANUT. **remarks:** Light tan testa, 173D in R.H.S. colour chart. Cultivar. Seed.

PI 561678 **origin:** United States. **cultivar:** TIFRUST-3. **other id:** GP-20. **source:** Crop Sci. 22(2):453 1982. **group:** CSR-PEANUT. **remarks:** Purple testa, 79A in R.H.S. colour chart. Cultivar. Seed.

PI 561679 **origin:** United States. **cultivar:** TIFRUST-4. **other id:** GP-21. **source:** Crop Sci. 22(2):453 1982. **group:** CSR-PEANUT. **remarks:** Tan testa, 174D in R.H.S colour chart. Cultivar. Seed.

PI 561680 **origin:** United States. **cultivar:** TIFRUST-5. **other id:** GP-22. **source:** Crop Sci. 22(2):452 1982. **group:** CSR-PEANUT. **remarks:** Testa light tan with purple stripes, 174C/79A in R.H.S. colour chart. Cultivar. Seed.

PI 561681 **origin:** United States. **cultivar:** TIFRUST-6. **other id:** GP-23. **source:** Crop Sci. 22(2):452 1982. **group:** CSR-PEANUT. **remarks:** Light tan testa, 173D in R.H.S. colour chart. Cultivar. Seed.

PI 561676 to 561689-continued

- PI 561682 **origin:** United States. **cultivar:** TIFRUST-7. **other id:** GP-24. **source:** Crop Sci. 22(2):452 1982. **group:** CSR-PEANUT. **remarks:** Purple testa, 59B in R.H.S. colour chart. Cultivar. Seed.
- PI 561683 **origin:** United States. **cultivar:** TIFRUST-8. **other id:** GP-25. **source:** Crop Sci. 22(2):452 1982. **group:** CSR-PEANUT. **remarks:** Testa is white with red blotches, 155D/42A in R.H.S colour chart. Cultivar. Seed.
- PI 561684 **origin:** United States. **cultivar:** TIFRUST-9. **other id:** GP-26. **source:** Crop Sci. 22(2):452 1982. **group:** CSR-PEANUT. **remarks:** Testa is off white, 158A in R.H.S. colour chart. Cultivar. Seed.
- PI 561685 **origin:** United States. **cultivar:** TIFRUST-10. **other id:** GP-27. **source:** Crop Sci. 22(2):452 1982. **group:** CSR-PEANUT. **remarks:** Purple testa color, 79A in R.H.S. colour chart. Cultivar. Seed.
- PI 561686 **origin:** United States. **cultivar:** TIFRUST-11. **other id:** GP-28. **source:** Crop Sci. 22(2):452 1982. **group:** CSR-PEANUT. **remarks:** Testa is tan with purple stripes, 174B/79C in R.H.S colour chart. Cultivar. Seed.
- PI 561687 **origin:** United States. **cultivar:** TIFRUST-12. **other id:** GP-29. **source:** Crop Sci. 22(2):452 1982. **group:** CSR-PEANUT. **remarks:** Red testa color, 53A in R.H.S colour chart. Cultivar. Seed.
- PI 561688 **origin:** United States. **cultivar:** TIFRUST-13. **other id:** GP-30. **source:** Crop Sci. 22(3):697 1982. **group:** CSR-PEANUT. **remarks:** Resistance to peanut rust fungus. Habit semi-erect. Pods comparatively larger than other rust-resistant types, mostly two segmented. Testa off-white. Susceptible to leafspots. USDA/ARS, Univ. of Georgia Coastal Pl. Sta., ICRISAT & Israel ministry of Agr. Release of Tifrust-13 peanut. (see app. & files for more info.). Cultivar. Seed.
- PI 561689 **origin:** United States. **cultivar:** TIFRUST-14. **other id:** GP-31. **source:** Crop Sci. 22(3):697 1982. **group:** CSR-PEANUT. **remarks:** Resistance to peanut rust fungus. Plants bunch. Maturity 135-140 days. Pods mainly 3 seeded. Testa light tan. Moderately susceptible to Cercospora arachidicola and Cercosporidium personatum. USDA/ARS, Univ. of Georgia Coastal Plain Station & Int'l Crops Res. Inst. for Semi-Arid Tropics Release of Tifrust-14. (see app. & files for more info). Cultivar. Seed.

PI 561690 to 561693. *Astragalus cicer* L. FABACEAE *Cicer* milkvetch

Donated by: Townsend, C.E., Agricultural Research Service -- USDA, Crops Research Lab., 1701 Center Avenue, Fort Collins, Colorado 80526, United States; and Colorado Agr. Exp. Sta.; and Montana Agr. Exp. Sta.. **remarks:** C-18, C-19, C-20 and C-21 Germplasms of *Cicer* Milkvetch. Received June 23, 1992.

PI 561690 **origin:** United States. **developed:** C.E. Townsend, R.L. Ditterline.. **origin institute:** Agricultural Research Service -- USDA, Crops Research Lab., 1701 Center Avenue, Fort Collins, Colorado 80526 United States. **cultivar:** C-18. **pedigree:** 26 parental clones trace to the following: PI 362229 (5), PI 362231 (2), PI 362234 (1), PI 362239 (1), PI 362248 (1), PI 362250 (5), PI 362251 (3), PI 362252 (1), PI 362254 (1), PI 362255 (3), PI 362264 (1), and PI 362266 (2). **other id:** GP-109. **group:** CSR-OTHER LEGUMES. **other id:** W6 10533. **group:** W6. **restricted:** CSR. **remarks:** Parental clones were selected for excellent mature plant vigor under irrigated conditions at Fort Collins, Colorado. Seed weight of the parental clones ranged from 2.91 to 3.87 g/1000 seeds with a mean of 3.30 g. Perennial. Breeding Material. Seed.

PI 561691 **origin:** United States. **developed:** C.E. Townsend, R.L. Ditterline. **origin institute:** Agricultural Research Service -- USDA, Crops Research Laboratory, 1701 Center Avenue, Fort Collins, Colorado 80526 United States. **cultivar:** C-19. **pedigree:** Traces to 10 of the 40 parental clones of cv. Monarch. Four of the 10 clones trace to the Blacksburg (VA) Composite, three to PI 206405, and three to PI 66515. **other id:** GP-110. **group:** CSR-OTHER LEGUMES. **other id:** W6 10534. **group:** W6. **restricted:** CSR. **remarks:** Selected for improved seedling emergence in the field, and mature plant vigor. Seedling emergence of the polycross progenies ranged from 82 - 144% of that of Monarch (17 seedlings/m of row) with a mean of 109%. Seed weight of the parental clones ranged from 3.46 - 5.00 g/1000 seeds with a mean of 4.07 g. Perennial. Breeding Material. Seed.

PI 561690 to 561693-continued

PI 561692 **origin:** United States. **developed:** C.E. Townsend, R.L. Ditterline. **origin institute:** Agricultural Research Service -- USDA, Crops Research Laboratory, 1701 Center Avenue, Fort Collins, Colorado 80526 United States. **cultivar:** C-20. **pedigree:** 54 parental clones trace to the following: C-14 (7), C-15 (8), C-16 (4), C-17 (8), C-19 (14), and the original B population (13). **other id:** GP-111. **group:** CSR-OTHER LEGUMES. **other id:** W6 10535. **group:** W6. **restricted:** CSR. **remarks:** Selected for improved seedling vigor and mature plant vigor. Seedling emergence of the component polycross progenies (54) ranged from 82 to 207% of that of Monarch (14 seedlings/m of row) with a mean of 148%. Seed weight of the parental clones ranged from 3.37 to 5.56 g/1000 seeds with a mean of 4.29 g. Seed weight of Monarch is 4.14 g/1000 seeds. Perennial. Breeding Material. Seed.

PI 561693 **origin:** United States. **developed:** C.E. Townsend, R.L. Ditterline.. **origin institute:** Agricultural Research Service -- USDA, Crops Research Laboratory, 1701 Center Avenue, Fort Collins, Colorado 80526 United States. **cultivar:** C-21. **pedigree:** Sel. from cv. Lutana. **other id:** GP-112. **group:** CSR-OTHER LEGUMES. **other id:** W6 10536. **group:** W6. **restricted:** CSR. **remarks:** Selected for persistence from a dryland planting of the cv. Lutana near Sidney, Montana. Reselected for mature plant vigor. Some of the polycross progenies had good seedling emergence. Seed weight of the parental clones ranged from 2.96 to 4.29 g/1000 seeds with a mean of 3.64 g. Perennial. Breeding Material. Seed.

PI 561694 to 561695. Zea mays L. subsp. mays POACEAE Maize

Donated by: Smith, M.E., Cornell University Agr. Exp. Sta., 252 Emerson Hall, Ithaca, New York 14853-1902, United States. **remarks:** NYLB31 and NYRD4058 Maize Parental Lines. Received June 23, 1992.

PI 561694 to 561695-continued

PI 561694 **origin:** United States. **developed:** M.E. Smith, V.E. Gracen. **origin institute:** Cornell University, 252 Emerson Hall, Ithaca, New York 14853-1902 United States. **cultivar:** NYRD4058. **pedigree:** Mo17/W153R//Mo17, selfed four generations. **other id:** RD4058. **other id:** LB58. **other id:** PL-166. **group:** CSR-MAIZE. **restricted:** CSR. **remarks:** Carries a single dominant gene for hypersensitive resistance to anthracnose leaf blight (*Colletotrichum graminicola*). Resistance is expressed at both seedling and mature plant stages. Medium-tall inbred. Leaves long, semi-upright, dark green. Ears long, slender. Kernels yellow. Flowering slightly earlier than either Mo17 or W153R. Also carries hypersensitive resistance to southern corn leaf blight (*Bipolaris maydis*). Facultative Annual. Breeding Material. Seed.

PI 561695 **origin:** United States. **developed:** M.E. Smith, V.E. Gracen. **origin institute:** Cornell University, 252 Emerson Hall, Ithaca, New York 1483-1902 United States. **cultivar:** NYLB31. **pedigree:** International Synthetic, selfed six generations. **other id:** LB31. **other id:** LB31B. **other id:** PL-165. **group:** CSR-MAIZE. **restricted:** CSR. **remarks:** Carries a single dominant gene for resistance to anthracnose stalk rot (*Colletotrichum graminicola*). Height medium. Tassel small, highly branched. Kernels white. Cob short, thick, white. Facultative Annual. Breeding Material. Seed.

PI 561696. *Phaseolus vulgaris* L. FABACEAE Common bean

Donated by: Saindon, G., Lethbridge Res. Sta.--Agriculture Canada, P.O. Box 3000 Main, Lethbridge, Alberta T1J 4B1, Canada. **remarks:** LRS92-1 Common Bean Germplasm. Received June 23, 1992.

origin: Canada. **developed:** G. Saindon, H.C. Huang, H.-H. Mundel, G.A. Kemp. **origin institute:** Lethbridge Res. Sta.--Agriculture Canada, P.O. Box 3000 Main, Lethbridge, Alberta T1J 4B1 Canada. **cultivar:** LRS92-1. **pedigree:** Redcloud/Kentwood//Swan Valley/3/Redcloud/Kentwood. **other id:** GP-108. **group:** CSR-OTHER LEGUMES. **other id:** W6 10537. **group:** W6. **remarks:** Semi-determinate navy bean. Height averages 44cm. Matures in 109 days. Seeds white, and average 180mg seed-1. Not genetically resistant to *S. sclerotiorum*, but avoids the disease due to its upright growth habit. Field observations suggest resistance to *P. syringae*, and some resistance to *X. campestris*. Spring Annual. Breeding Material. Seed.

PI 561697 to 561699. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Fioritto, R.J., Ohio Agricultural Research & Dev. Center, Ohio State University, Wooster, Ohio 44691-4096, United States. **remarks:** HM2, HM3, and HM4 Soybean Germplasms. Received June 23, 1992.

PI 561697 **origin:** United States. **developed:** B.A. McBlain, R.J. Fioritto, A.F. Schmitthenner, S.J. Carson, A.K. Walker. **origin institute:** Ohio Agricultural Research & Dev. Center, Ohio State University, Wooster, Ohio 44691-4096 United States. **cultivar:** HM2. **pedigree:** Derived from the fourth cycle of recurrent selection of the population *Phytophthora megasperma* f. sp. *glycinea* Tolerance. **other id:** GP-142. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Flowers purple. Pods brown. Pubescence tawny. Seed dull yellow with black hila. Resistant to Race 1 of *Phytophthora sojae*, but susceptible to Races 16 and 25. Intermediate reactions to Races 3, 4, 7, 8 and 10. Spring Annual. Breeding Material. Seed.

PI 561698 **origin:** United States. **developed:** B.A. McBlain, R.J. Fioritto, A.F. Schmitthenner, S.J. Carson, A.K. Walker. **origin institute:** Ohio Agricultural Research & Dev. Center, Ohio State University, Wooster, Ohio 44691-4096 United States. **cultivar:** HM3. **pedigree:** Derived from the fourth cycle of recurrent selection of the population *Phytophthora megasperma* f. sp. *glycinea* Tolerance. **other id:** GP-143. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Resistant to Race 1 of *Phytophthora sojae*, and Races 16 and 25, than that of HM2. Intermediate reactions to Races 3, 4, 7, 16 and 25. Susceptible to Races 8 and 10. Pigmentation the same as HM2. Spring Annual. Breeding Material. Seed.

PI 561699 **origin:** United States. **developed:** B.A. McBlain, R.J. Fioritto, A.F. Schmitthenner, S.J. Carson, A.K. Walker. **origin institute:** Ohio Agricultural Research & Dev. Center, Ohio State University, Wooster, Ohio 44691-4096 United States. **cultivar:** HM4. **pedigree:** Derived from the fourth cycle of recurrent selection of the population *Phytophthora megasperma* f.sp. *glycinea* Tolerance. **other id:** GP-144. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Intermediate reaction to *Phytophthora sojae* Race 1. Pubescence gray and tawny. Hila black and imperfect black. Spring Annual. Breeding Material. Seed.

PI 561700. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Fioritto, R.J., Ohio Agricultural Research & Dev. Center, Wooster, Ohio 44691-4096, United States; and Agricultural Research Service -- USDA. **remarks:** Erie Soybean. Received June 23, 1992.

origin: United States. **developed:** B.A. McBlain, R.J. Fioritto, S.K. St. Martin, A. Calip-DuBois, A.F. Schmitthenner, R.L. Cooper, R.J. Martin. **origin institute:** Ohio Agricultural Research & Dev. Center, The Ohio State University, Wooster, Ohio 44691 United States. **cultivar:** Erie. **pedigree:** A78-123018 2 X Century 84. **other id:** CV-302. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Early group II cultivar, about 2 days later than Vickery. Purple flowers. Pods brown. Pubescence tawny. Seed dull yellow with brown hila. Resistant to phytophthora rot (*Phytophthora sojae*). Yield is 5% higher, 10gm/kg seed protein content is higher, and has resistance to Race 4 of phytophthora rot, when compared to Vickery. Moderately resistant to brown stem rot (*Phialophora gregata*). Spring Annual. Cultivar. Seed.

PI 561701. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Boerma, H.R., Georgia Agr. Exp. Sta., University of Georgia, Athens, Georgia 30602-7272, United States. **remarks:** G88-20092 Soybean Germplasm. Received June 24, 1992.

origin: United States. **developed:** H.R. Boerma, R.S. Hussey, P.F. Reese, Jr., S.L. Finnerty, E.D. Wood. **origin institute:** Georgia Agr. Exp. Sta., University of Georgia, Athens, Georgia 30602-7272 United States. **cultivar:** G88-20092. **pedigree:** F6-derived line from PI 97100 X Wright. **other id:** GP-145. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Maturity Group IV germplasm line. Matures 4 days earlier than Wright and 5 days earlier than PI 97100. Tolerant to soybean cyst nematode (SCN) (*Heterodera glycines* Ichinohe). Flowers white. Pubescence grey. Pod walls tan. Growth habit determinate. Seed coats yellow. Hila buff. Susceptible to bacterial pustule (*Xanthomonas campestris*). Spring Annual. Breeding Material. Seed.

PI 561702. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Montoya, C.L., CIANO-INFAP-SARH, Centro de Investigaciones Agropecuarias, Cd. Obregon, Sonora, Mexico. **remarks:** Harbar 88. Received June 24, 1992.

origin: Mexico. **developed:** L. Montoya C., T.N. Castillo.
origin institute: CIANO-INFAP-SARH, Centro de Investigaciones Agropecuarias, Cd. Obregon, Sonora Mexico. **cultivar:** Harbar 88. **pedigree:** Cajeme X Rad.
other id: CV-300. **group:** CSR-SOYBEAN. **remarks:** Maturity Group VI. Begins flowering about 47 days after planting. Physiological maturity in about 119 days. Mature plant height averages 90cm. Flowers purple. Pubescence tawny. Seed yellow. Hila black or gray. Seed weight averages 14.9g per 100 seeds. Seed protein averages 391g kg-1. Oil content 233g kg-1. Resistant to both lodging and shattering. Susceptible to cold injury and defoliating insects. Tolerant to virus, cercospora and mildew. Facultative Annual. Cultivar. Seed.

PI 561703. *Carthamus tinctorius* L. ASTERACEAE Safflower

Donated by: Musa, G.L.C., Northwest Agric. Research Centre (CIANO), Yaqui Valley Agric. Exp. Stn., Obregon, Sonora CP 85000, Mexico.
remarks: San Jose 89 Safflower. Received June 24, 1992.

origin: Mexico. **developed:** G.L.C. Musa, S. Munoz-Valenzuela, R.D. Garcia-Perez. **origin institute:** Northwest Agric. Research Centre (CIANO), Yaqui Valley Agric. Exp. Stn., Apartado Postal 515, Cd. Obregon, Sonora CP 85 000 Mexico. **cultivar:** San Jose 89.
pedigree: Sl-Cen-1368/Sl-Cen-1178//PO1-5. **other id:** CV-19. **group:** CSR-SAFFLOWER. **other id:** W6 10538.
group: W6. **remarks:** Flowering and maturity 120 and 150 days, respectively. Plant height 150cm. Seed color white, hull normal. Seed size 8mm long, 4.1mm wide. Seed shape oval. Oil content 37.6%. Protein content 17.7%. Linoleic acid 56.2%. Oleic acid 33.4%. Iodine value 130.5. Moderately resistant to *Alternaria carthami* and *Puccinia carthami*. Resistant to *Lodaina*. Winter Annual. Cultivar. Seed.

PI 561704. *Sesamum indicum* L. PEDALIACEAE Sesame

Donated by: Munoz-Valenzuela, S., Campo Experimental Valle del Yaqui, (CEVY-INFAP-SARH), Ciudad Obregon, Sonora, Mexico; and CIANO-INFAP-SARH. **remarks:** Ostimuri Sesame. Received June 24, 1992.

origin: Mexico. **developed:** S. Munoz-Valenzuela, G.L.C. Musa. **origin institute:** Campo Experimental "Valle del Yaqui", (CEVY-INIFAP-SARH), Ciudad Obregon, Sonora Mexico. **cultivar:** OSTIMURI 89. **pedigree:** IGUALA 278/EVA. **other id:** CV-4. **group:** CSR-OTHER OILSEEDS. **remarks:** Flowers about 45 days after planting. Physiological maturity at 95 days. Mature plant height average 134cm. Height of first capsules 48cm. Seed white stained, averaging 3.2mm long and 2.0mm wide. Seed weight averages 2.9g 1000-1 seeds and weight 59.0kg hl-1. Seed oil average 440g kg-1, protein 295g kg-1, and carbohydrates 166g kg-1. Fatty acid balance averages for oleic acid 377g, linoleic acid 457g, palmitic acid 121g, and stearic acid 46g kg-1 of oil. Oil iodine number 116.5. Spring Annual. Seed.

PI 561705. *Sesamum indicum* L. PEDALIACEAE Sesame

Donated by: Munoz-Valenzuela, S., Campo Experimental Valle del Yaqui, (CEVY-INIFAP-SARH), Ciudad Obregon, Sonora, Mexico; and CIANO-INIFAP-SARH. **remarks:** Turinoca Sesame. Received June 24, 1992.

origin: Mexico. **developed:** S. Munoz-Valenzuela, G.L.C. Musa. **origin institute:** Campo Experimental "Valle del Yaqui", (CEVY-INIFAP-SARH), Ciudad Obregon, Sonora, Sonora Mexico. **cultivar:** TURINOCA 89. **pedigree:** IGUALA 101/Denisse. **other id:** CV-6. **group:** CSR-OTHER OILSEEDS. **remarks:** Flowers about 49 days after planting. Physiological maturity at 100 days. Mature plant height average 138cm. Height of first capsules averages 50cm. Seed white, averaging 3.1mm long and 2.0mm wide. Seed weight averages 3.0g 1000-1 seeds and test weight 60.1kg hL-1. Seed oil average 416g kg-1, protein 282g kg-1, and carbohydrates 196g kg-1. Fatty acid balance averages for oleic acid 415g, linoleic acid 419g, palmitic acid 110g, and stearic acid 55g kg-1 of oil. Oil iodine number 113.5. Spring Annual. Cultivar. Seed.

PI 561706. *Sesamum indicum* L. PEDALIACEAE Sesame

Donated by: Munoz-Valenzuela, S., Campo Experimental Valle del Yaqui, (CEVY-CIFAPSON-INIFAP-SARH), Ciudad Obregon, Sonora, Mexico; and CIANO-INIFAP-SARH. **remarks:** Ontagota Sesame. Received June 24, 1992.

origin: Mexico. **developed:** S. Munoz-Valenzuela, G.L.C. Musa. **origin institute:** Campo Experimental Valle del Yaqui, (CEVY-INIFAP-SARH), Ciudad Obregon, Sonora Mexico. **cultivar:** ONTAGOTA 89. **pedigree:** Eva/Pachequeno//Instituto 15/Ciano 27. **other id:** CV-5. **group:** CSR-OTHER OILSEEDS. **remarks:** Flowers about 66 days after planting. Physiological maturity at 115 days. Mature plant average 163cm in height. Height of first capsules averages 70cm. Seed creamy white, averaging 3.0mm long and 2.0mm wide. Seed weight averages 2.7g 1000-1, test weight 59.8kg hL-1. Seed oil average 400g kg-1, protein 311g kg-1, and carbohydrates 176g kg-1. Fatty acid balance averages for oleic acid 389g, linoleic acid 419g, palmitic acid 130g, and stearic acid 65g kg-1 of oil. Oil iodine number 111.0. Spring Annual. Seed.

PI 561707. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Lofts Seed, Inc., United States. Received July 01, 1992.

origin: United States. **origin institute:** Lofts Seed, Inc. United States. **cultivar:** PALMER II. **other id:** PVP 9200209. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561708. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Lofts Seed, Inc., United States. Received July 01, 1992.

origin: United States. **origin institute:** Lofts Seed, Inc. United States. **cultivar:** PRELUDE II. **other id:** PVP 9200210. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561709. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Lofts Seed, Inc., United States. Received July 01, 1992.

origin: United States. **origin institute:** Lofts Seed, Inc. United States. **cultivar:** REPELL II. **other id:** PVP 9200211. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561710. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Lofts Seed, Inc., United States. Received July 01, 1992.

origin: United States. **origin institute:** Lofts Seed, Inc. United States. **cultivar:** YORKTOWN III. **other id:** PVP 9200212. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561711. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received July 01, 1992.

origin: United States. **origin institute:** Asgrow Seed Company United States. **cultivar:** A3237. **other id:** PVP 9200213. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561712. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Company, Inc., United States. Received July 01, 1992.

origin: United States. **origin institute:** Jacob Hartz Seed Company, Inc. United States. **cultivar:** H8558. **other id:** PVP 9200217. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561713. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Pioneer Hi-Bred International, Inc., United States. Received July 01, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** 5454. **other id:** PVP 9200218. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561714. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Pioneer Hi-Bred International, Inc., United States. Received July 01, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** 5151. **other id:** PVP 9200219. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561715. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Woodward, W.T.W., Pioneer Hi-Bred International, Inc., P.O. Box 287, Johnston, Iowa 50131, United States. **remarks:** 5246 Alfalfa. Received July 01, 1992.

origin: United States. **developed:** W.T.W. Woodward, D.J. Miller, G.E. Hoard, D.L. Jessen, E.F. Poynor, R. Salter, L.D. Satterlee, M.A. Smith.. **origin institute:** Pioneer Hi-Bred International, Inc., P.O. Box 287, Johnston, Iowa 50131 United States. **cultivar:** 5246. **pedigree:** Synthetic with 315 parent plants originating from an experimental line tracing to cultivars 5373 and 5262. **other id:** PVP 9200220. **source:** Pending. **group:** PVPO. **other id:** CV-183. **group:** CSR-ALFALFA. **other id:** XAE92. **restricted:** CSR. **patent:** PVPO. **remarks:** Dormant cultivar with fall dormancy similar to Ranger. Flower color in the Syn 1 generation approx. 73% purple and 27% variegated with traces of yellow, white, and cream. Growth habit erect in midsummer and semi-erect in fall. High resistance to anthracnose (Race 1), bacterial wilt, Fusarium wilt, and Phytophthora root rot. Resistance to Verticillium wilt, spotted alfalfa aphid and pea aphid. Moderate resistance to Aphanomyces (Race1) and stem nematode. Cultivar. Seed.

PI 561716. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Pioneer Hi-Bred International, Inc., United States. Received July 01, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** CAPITAL. **other id:** PVP 9200221. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561717. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received July 01, 1992.

origin: United States. **origin institute:** Asgrow Seed Company United States. **cultivar:** A2506. **other id:** PVP 9200222. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561718. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Asgrow Seed Company, United States. Received July 01, 1992.

PI 561718-continued

origin: United States. **origin institute:** Asgrow Seed Company United States. **cultivar:** A2835. **other id:** PVP 9200223. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561719. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Levelland Delinting, Inc., United States. Received July 01, 1992.

origin: United States. **origin institute:** Levelland Delinting, Inc. United States. **cultivar:** ALL-TEX EXCESS. **other id:** PVP 9200224. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561720. *Crotalaria juncea* L. FABACEAE Sunn hemp

Donated by: Instituto Agronomico de Campinas, Av. Barao de Itapura, 1481, Caixa Postal 28, 13020-902, Campinas, Sao Paulo, Brazil. Received July 13, 1992.

origin: Brazil. **developed:** Manoel A.C. de Miranda. **origin institute:** Instituto Agronomico de Campinas, Av. Barao de Itapura, 1481, Caixa Postal 28, 13020-902, Campinas, Sao Paulo Brazil. **cultivar:** IAC-1. **remarks:** Maturity 160-180 days (summer), 120 days (mild winter). Plants highly photosensitive. Flowers bee-pollinated. Primary uses - green manure (40-50 t/ha at flowering time) and control of root knot nematodes. Seed yield 1500 kg/ha (summer), 700-1000 kg/ha (winter). Resistant to *Ceratocystis fimbriata*. Spring Annual. Cultivar. Seed.

PI 561721. *Panicum amarum* Ell. POACEAE Beach grass

Donated by: Soil Conservation Service, Plant Materials Center, 14119 Broad Street, Brookville, Florida 34601, United States. **remarks:** Received through National Plant Materials Center, USDA-SCS, Bldg. 509, BARC-East, Beltsville, MD 20705. Received July 07, 1992.

donor id: 9003324. **origin:** United States. **collected:** July 14, 1977. **collector:** R.E. Sommer. **locality:** Beach sand, 0.75 miles S of Carlin Park at Hwy 1A near edge of blacktop. T41 R43 S5, MLRA 155, Palm Beach County. **elevation:** 5m. Wild. Plant.

PI 561722 to 561727. *Triticum aestivum* L., nom. cons. POACEAE Hard red winter wheat

Donated by: Carver, B.F., Oklahoma Agr. Exp. Sta., Oklahoma State University, Stillwater, Oklahoma 74078-0507, United States.
remarks: Six Wheat Near-Isoline Germplasms. Received July 08, 1992.

PI 561722 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith, L. Bona. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK91G103. **pedigree:** Chisholm*4/Atlas 66. **other id:** GP-360. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Chisholm in plant appearance, seed characteristics, and pest resistance. Resembles Chisholm in agronomic performance under field conditions with the recommended soil pH. Significant increases have been noted in spike density, total plant and grain yield, kernel weight, and seedling root mass, under acid-soil stress conditions. Winter Annual. Breeding Material. Seed.

PI 561723 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith, L. Bona. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK91G104. **pedigree:** Chisholm*4/Atlas 66. **other id:** GP-361. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Chisholm in plant appearance, seed characteristics, and pest resistance. Resembles Chisholm in agronomic performance under field conditions with the recommended soil pH. Significant increases have been noted in spike density, total plant and grain yield, kernel weight, and seedling root mass, under acid-soil stress conditions. Winter Annual. Breeding Material. Seed.

PI 561724 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith, L. Bona. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK91G105. **pedigree:** Century*4/Atlas 66. **other id:** GP-362. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Century in plant appearance, seed characteristics, and pest resistance. Resembles Century in agronomic performance under field conditions with the recommended soil pH. Significant increases have been noted in spike density, total plant and grain yield, kernel weight, and seedling root mass, under acid-soil stress conditions. Winter Annual. Breeding Material. Seed.

PI 561725 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith, L. Bona. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK91G106. **pedigree:** Century*4/Atlas 66. **other id:** GP-363. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Century in plant appearance, seed characteristics, and pest resistance. Resembles Century in agronomic performance under field conditions with the recommended soil pH. Significant increases have been noted in spike density, total plant and grain yield, kernel weight, and seedling root mass, under acid-soil stress conditions. Winter Annual. Breeding Material. Seed.

PI 561726 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith, L. Bona. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK91G107. **pedigree:** Chisholm*4/Atlas 66. **other id:** GP-364. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Chisholm in plant appearance, seed characteristics, and pest resistance. Resembles Chisholm in agronomic performance under field conditions with the recommended soil pH. Aluminum toxicity susceptible near-isoline of OK91G103. Winter Annual. Breeding Material. Seed.

PI 561727 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith, L. Bona. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK91G108. **pedigree:** Century*4/Atlas 66. **other id:** GP-365. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Century in plant appearance, seed characteristics, and pest resistance. Resembles Century in agronomic performance under field conditions with the recommended soil pH. Aluminum toxicity susceptible near-isoline of OK91G106. Winter Annual. Breeding Material. Seed.

PI 561728 to 561733. *Triticum aestivum* L., nom. cons. POACEAE Hard red winter wheat

Donated by: Carver, B.F., Oklahoma Agr. Exp. Sta., Oklahoma State University, Stillwater, Oklahoma 74078-0507, United States.
remarks: Six Wheat Near-Isoline Germplasms. Received July 08, 1992.

- PI 561728 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK92G201. **pedigree:** Tam 107*5/McNair 1003. **other id:** GP-345. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Tam 107 in plant appearance, seed characteristics and pest resistance. Awnletted. Formed by bulking seed from several BC4F2 plants in 5 to 7 BC4F1 families. Breeder seed will be maintained by advancing BC4F1 families (duplicate lines) separately. Winter Annual. Breeding Material. Seed.
- PI 561729 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK92G202. **pedigree:** Tam 107*5/McNair 1003. **other id:** GP-348. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles TAM 107 in plant appearance, seed characteristics and pest resistance. Awned. Formed by bulking seed from several BC4F2 plants in 5 to 7 BC4F1 families. Breeder seed will be maintained by advancing BC4F1 families (duplicate lines) separately. Winter Annual. Breeding Material. Seed.
- PI 561730 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK92G203. **pedigree:** Mustang*5/McNair 1003. **other id:** GP-346. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Mustang in plant appearance, seed characteristics and pest resistance. Awnletted. Formed by bulking seed from several BC4F2 plants in 5 to 7 BC4F1 families. Breeder seed will be maintained by advancing BC4F1 families (duplicate lines) separately. Winter Annual. Breeding Material. Seed.

PI 561731 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK92G204. **pedigree:** Mustang*5/McNair 1003. **other id:** GP-349. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Mustang in plant appearance, seed characteristics and pest resistance. Awned. Formed by bulking seed from several BC4F2 plants in 5 to 7 BC4F1 families. Breeder seed will be maintained by advancing BC4F1 families (duplicate lines) separately. Winter Annual. Breeding Material. Seed.

PI 561732 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK92G205. **pedigree:** Century*5/McNair 1003. **other id:** GP-347. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Century in plant appearance, seed characteristics and pest resistance. Awnletted. Formed by bulking seed from several BC4F2 plants in 5 to 7 BC4F1 families. Breeder seed will be maintained by advancing BC4F1 families (duplicate lines) separately. Winter Annual. Breeding Material. Seed.

PI 561733 **origin:** United States. **developed:** B.F. Carver, W.E. Whitmore, E.L. Smith. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078-0507 United States. **origin institute id:** OK92G206. **pedigree:** Century*5/McNair 1003. **other id:** GP-350. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Developed by backcross breeding. Resembles Century in plant appearance, seed characteristics and pest resistance. Awned. Formed by bulking seed from several BC4F2 plants in 5 to 7 BC4F1 families. Breeder seed will be maintained by advancing BC4F1 families (duplicate lines) separately. Winter Annual. Breeding Material. Seed.

PI 561734. *Oryza sativa* L. POACEAE Rice

Donated by: Linscombe, S., Louisiana Agr. Exp. Sta., Rice Research Station, Crowley, Louisiana 70527-1429, United States; and Agricultural Research Service -- USDA. **remarks:** Cypress Rice. Received July 08, 1992.

origin: United States. **developed:** S.D. Linscombe, F. Jodari, K.S. McKenzie, P.K. Bollich, L.M. White, D.E. Groth, R.T. Dunand. **origin institute:** Louisiana Agr. Exp. Sta., Rice Research Station, P.O. Box 1429, Crowley, Louisiana 70527-1429 United States. **cultivar:** CYPRESS. **pedigree:** L-202/Lemont. **other id:** CV-91. **group:** CSR-RICE. **restricted:** CSR. **remarks:** Early maturing (approx. 85 days from emergence to 50% heading), semidwarf. Height average 95cm. Leaves and grain glabrous. Apiculus purple, but coloration fades as grain approaches maturity. Endosperm non-glutinous, non-aromatic. Pericarp light brown. Apparent starch amylose content average 215g kg-1. Spring Annual. Cultivar. Seed.

PI 561735. *Oryza sativa* L. POACEAE Rice

Donated by: Linscombe, S., Louisiana Agr. Exp. Sta., Rice Research Station, Crowley, Louisiana 70527-1429, United States; and Agricultural Research Service -- USDA. **remarks:** Bengal Rice. Received July 08, 1992.

origin: United States. **developed:** S.D. Linscombe, F. Jodari, K.S. McKenzie, P.K. Bollich, L.M. White, D.E. Groth, R.T. Dunand. **origin institute:** Louisiana Agr. Exp. Sta., Rice Research Station, P.O. Box 1429, Crowley, Louisiana 70527-1429 United States. **cultivar:** BENGAL. **pedigree:** MARS//M201/MARS. **other id:** CV-92. **group:** CSR-RICE. **restricted:** CSR. **remarks:** Early maturing (approx. 82 days from emergence to 50% heading). Short-statured, height average 94cm. Flagleaf narrow, erect, ending approx. 17cm above the midpoint of the panicle at maturity. Leaves glabrous. Lemma keel has a small amount of pubescence. Plant color dark green under normal growing conditions. Endosperm non-glutinous, non-aromatic. Pericarp light brown. Apparent starch amylose content average 137g kg-1. Alkali spreading reaction average of 5.6. Spring Annual. Cultivar. Seed.

PI 561736. *Arachis hypogaea* L. subsp. *hypogaea* FABACEAE Peanut

Donated by: Branch, W.D., Georgia Agr. Exp. Sta., University of Georgia, Tifton, Georgia 31793-0748, United States. **remarks:** Variegated-leaf Peanut Genetic Stock. Received July 08, 1992.

origin: United States. **developed:** W.D. Branch. **origin institute:** Georgia Agr. Exp. Sta., University of Georgia, Coastal Plain Experiment Station, Tifton, Georgia 31793-0748 United States. **cultivar:** VARIEGATED-LEAF. **pedigree:** Originally selected as an aberrant off-type within the 'Florunner' cultivar. **other id:** Georgia GS-113. **other id:** GS-2. **group:** CSR-PEANUT. **restricted:** CSR. **remarks:** Attractive as a potted plant. Readily available seed source for albinism studies. Leaflets distinctively white & green. Plants somewhat similar to Florunner plants, except for abnormal leaf characteristic. Growth habit spreading. Flowers generally absent on mainstems. Maturity medium in south Georgia. Pod typical runner market-type with only slight constriction & smooth reticulation. Two pink-colored seed per pod are most common, but an occasional one-seeded pod can be observed. Sound mature seed weight average usually smaller than Florunner (ca. 48g vs 58g/100). Spring Annual. Genetic Material. Seed.

PI 561737 to 561792. *Secale cereale* L. subsp. *cereale* POACEAE Rye

Donated by: Metzger, R.J., Oregon State University, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon 97331, United States. **remarks:** Seed was increased at the Botanical Garden of the Polish Academy of Sciences under USDA-OICD Project No. PL-ARS-140B. Received May 1992.

PI 561737 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK008-043C. **locality:** 34 km southeast of Bunyan. **elevation:** 1430m. Cultivated. Seed.

PI 561738 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK010-048. **locality:** 10 km northeast of Pinarbasi. **elevation:** 1510m. Cultivated. Seed.

PI 561739 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK010-049. **locality:** 10 km northeast of Pinarbasi. **elevation:** 1510m. Cultivated. Seed.

PI 561740 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK014-064. **locality:** 41 km southeast of Darende. **elevation:** 1610m. Cultivated. Seed.

PI 561737 to 561792-continued

- PI 561741 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK017-075. **locality:** 12 km southeast of Elazig. **elevation:** 1100m. Cultivated. Seed.
- PI 561742 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK029-147. **locality:** 13 km southwest of Tatvan. **elevation:** 1780m. Cultivated. Seed.
- PI 561743 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK029-151. **locality:** 13 km southwest of Tatvan. **elevation:** 1780m. Cultivated. Seed.
- PI 561744 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK029-153. **locality:** 13 km southwest of Tatvan. **elevation:** 1780m. Cultivated. Seed.
- PI 561745 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK029-154. **locality:** 13 km southwest of Tatvan. **elevation:** 1780m. Cultivated. Seed.
- PI 561746 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK030-172. **locality:** 11 km northeast of Tatvan. **elevation:** 1680m. Cultivated. Seed.
- PI 561747 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK032-174. **locality:** 30 km northeast of Tatvan. **elevation:** 1640m. Cultivated. Seed.
- PI 561748 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK033-175. **locality:** 33 km northeast of Tatvan. **elevation:** 1650m. Cultivated. Seed.

PI 561737 to 561792-continued

- PI 561749 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK042-261. **locality:** 20 km southwest of Ercis. **elevation:** 1700m. Cultivated. Seed.
- PI 561750 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK049-202. **locality:** 36 km southeast of Van. **elevation:** 1840m. Cultivated. Seed.
- PI 561751 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK068-229. **locality:** 9 km southeast of Baskale. **elevation:** 1950m. Cultivated. Seed.
- PI 561752 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK068-367. **locality:** 9 km southeast of Baskale. **elevation:** 1950m. Cultivated. Seed.
- PI 561753 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK078-413. **locality:** 21 km northwest of Ercis. **elevation:** 1930m. Cultivated. Seed.
- PI 561754 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK079-417. **locality:** Patnos. **elevation:** 1690m. Cultivated. Seed.
- PI 561755 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK082-429. **locality:** 45 km west of Dogubayazit. **elevation:** 1820m. Cultivated. Seed.
- PI 561756 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK090-453. **locality:** Tuzluca. **elevation:** 1000m. Cultivated. Seed.

PI 561737 to 561792-continued

- PI 561757 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK092-466. **locality:** 6 km southwest of Kagizman-Igdir-Erzurum road junction. **elevation:** 1190m. Cultivated. Seed.
- PI 561758 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK094-480. **locality:** 30 km southeast of Karakurt. **elevation:** 1300m. Cultivated. Seed.
- PI 561759 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK101-537. **locality:** 4 km southeast of Cildir. **elevation:** 1900m. Cultivated. Seed.
- PI 561760 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK106-557. **locality:** 10 km north of Gole. **elevation:** 1930m. Cultivated. Seed.
- PI 561761 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK107-571. **locality:** 19 km north of Gole. **elevation:** 1880m. Cultivated. Seed.
- PI 561762 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK109-592. **locality:** Tortum-Yukari Sivri village. **elevation:** 1700m. Cultivated. Seed.
- PI 561763 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK110-599. **locality:** 33 km north of Erzurum. **elevation:** 2010m. Cultivated. Seed.
- PI 561764 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK112-1074. **locality:** 18 km northeast of Erzurum. **elevation:** 1810m. Cultivated. Seed.

PI 561737 to 561792-continued

- PI 561765 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK114-1083. **locality:** 56 km northwest of Eleskirt. **elevation:** 1700m. Cultivated. Seed.
- PI 561766 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK116-617. **locality:** 37 km northwest of Eleskirt. **elevation:** 2000m. Cultivated. Seed.
- PI 561767 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK118-1098. **locality:** 13 km south of Erzurum-Hinis road junction. **elevation:** 1600m. Cultivated. Seed.
- PI 561768 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK121-624. **locality:** 76 km north of Hinis. **elevation:** 1620m. Cultivated. Seed.
- PI 561769 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK123-653. **locality:** 37 km southeast of Bayburt. **elevation:** 1920m. Cultivated. Seed.
- PI 561770 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK124-698. **locality:** Tercan. **elevation:** 1420m. Cultivated. Seed.
- PI 561771 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK126-663. **locality:** 56 km west of Erzincan. **elevation:** 1670m. Cultivated. Seed.
- PI 561772 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK132-718. **locality:** 22 km southeast of Yilizeli. **elevation:** 1310m. Cultivated. Seed.

PI 561737 to 561792-continued

- PI 561773 **origin:** Turkey. **collected:** 1979. **collector:** A. Sencer, M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, J.A. Hoffman, USDA-ARS. **collector id:** 79TK134-728. **locality:** 17 km southwest of Yozgat, Basibuyuklu village. **elevation:** 1100m. Cultivated. Seed.
- PI 561774 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK001-003. **locality:** 1 km north of Selimiye. **elevation:** 450m. Cultivated. Seed.
- PI 561775 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK080-051. **locality:** 10 km north of Bensî. **elevation:** 600m. Cultivated. Seed.
- PI 561776 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK140-027.1. **locality:** 20 km east of Golbasi. **elevation:** 670m. Cultivated. Seed.
- PI 561777 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK143-43.2. **locality:** 9 km northeast of Pazarcik. **elevation:** 800m. Cultivated. Seed.
- PI 561778 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK311-002. **locality:** 3 km north of of Sinop/Corum provinces border. **elevation:** 260m. Cultivated. Seed.
- PI 561779 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK312-005. **locality:** 14 km north of Sinop/Corum provinces border. **elevation:** 350m. Cultivated. Seed.
- PI 561780 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK588-001.1. **locality:** 14 km northwest of junction toward Nemrut Lake. **elevation:** 1800m. Cultivated. Seed.

PI 561737 to 561792-continued

- PI 561781 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK589-003.1. **locality:** east side of Nemrut Lake; grazed area. **elevation:** 2750m. Cultivated. Seed.
- PI 561782 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK589-003.2. **locality:** east side of Nemrut Lake; grazed area. **elevation:** 2750m. Cultivated. Seed.
- PI 561783 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK591-001.1. **locality:** 25 km northeast of Tatvan. **elevation:** 1660m. Cultivated. Seed.
- PI 561784 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK591-001.2. **locality:** 25 km northeast of Tatvan. **elevation:** 1660m. Cultivated. Seed.
- PI 561785 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK591-001.3. **locality:** 25 km northeast of Tatvan. **elevation:** 1660m. Cultivated. Seed.
- PI 561786 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK593-002. **locality:** 8 km northeast of Muradiye. **elevation:** 1875m. Cultivated. Seed.
- PI 561787 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK597-003.1. **locality:** 19 km northeast of Caldiran. **elevation:** 2175m. Cultivated. Seed.
- PI 561788 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK597-003.14. **locality:** 19 km northeast of Caldiran. **elevation:** 2175m. Cultivated. Seed.
- PI 561789 **origin:** United States. **collector:** R.J. Metzger, USDA-ARS, Corvallis. **collector id:** H80-37-17. Breeding Material. Seed.

PI 561737 to 561792-continued

- PI 561790 **origin:** United States. **collector:** R.J. Metzger, USDA-ARS, Corvallis. **collector id:** H80-5-1. **Breeding Material.** **Seed.**
- PI 561791 **origin:** Turkey. **collected:** 1979. **collector:** R.J. Metzger, USDA-ARS. **collector id:** RJM 20321. **Cultivated.** **Seed.**
- PI 561792 **origin:** Turkey. **collected:** 1979. **collector:** R.J. Metzger, USDA-ARS. **collector id:** RJM-JAH 20320. **Cultivated.** **Seed.**

PI 561793 to 561810. *Secale* sp. POACEAE Rye

Donated by: Metzger, R.J., Oregon State University, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon 97331, United States. **remarks:** Seed was increased at the Botanical Garden of the Polish Academy of Sciences under USDA-OICD Project No. PL-ARS-140B. Received May 1992.

- PI 561793 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK150-060.1. **locality:** 1 km east of road junction to Selemdi on Izmir Highway. **elevation:** 490m. **Cultivated.** **Seed.**
- PI 561794 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen; G. Kimber, R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK161-052. **locality:** 23 km north of Buldan junction, or 12 km south of Sarigol. **elevation:** 320m. **Cultivated.** **Seed.**
- PI 561795 **origin:** Turkey. **collected:** June 1984. **collector:** R.J. Metzger, USDA-ARS. **collector id:** 84TK179-001. **Cultivated.** **Seed.**
- PI 561796 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK277-001. **locality:** 10 km east of Akcakoca. **elevation:** 20m. **Cultivated.** **Seed.**
- PI 561797 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK290-005.1. **locality:** 16 km east of 7 Lakes Park. **elevation:** 200m. **Cultivated.** **Seed.**

PI 561793 to 561810-continued

- PI 561798 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK318-004. **locality:** 20 km west of Erfelek. **elevation:** 600m. Cultivated. Seed.
- PI 561799 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK319-001. **locality:** 19 km southeast of Ayancik. **elevation:** 630m. Cultivated. Seed.
- PI 561800 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK324-001. **locality:** 16 km southeast of Yenikonak-Boyabat junction. **elevation:** 300m. Cultivated. Seed.
- PI 561801 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK454-001. **locality:** 51 km northwest of Tunceli. **elevation:** 1175m. Cultivated. Seed.
- PI 561802 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK478-001.2. **locality:** 3 km west of Tatvan. **elevation:** 1700m. Cultivated. Seed.
- PI 561803 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK494-005. **locality:** 9 km east of Van toward Ozalp. **elevation:** 1875m. Cultivated. Seed.
- PI 561804 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK505-007. **locality:** 23 km southeast of Van. **elevation:** 1825m. Cultivated. Seed.
- PI 561805 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK510-003.1. **locality:** 30 km southeast of Guzelsu. **elevation:** 2090m. Cultivated. Seed.

PI 561793 to 561810-continued

- PI 561806 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK608-002. **locality:** 6 km south of Erzurum toward Cat. **elevation:** 1840m. Cultivated. Seed.
- PI 561807 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK609-001.1. **locality:** 47 km south of Erzurum toward Cat. **elevation:** 2240m. Cultivated. Seed.
- PI 561808 **origin:** Turkey. **collected:** August 1984. **collector:** M. Kanbertay, Aegean Agric. Res. Inst., Menemen R.J. Metzger, USDA-ARS. **collector id:** 84TK624-001. **locality:** 23 km east of Tortum-Norman junction. **elevation:** 2000m. Cultivated. Seed.
- PI 561809 **origin:** Pakistan. **collected:** July 1986. **collector:** R.J. Metzger, USDA-ARS. **collector id:** 86PK1271-002. **locality:** Slulmish, 10 km north of Gilgit on Naltar road. **latitude:** 35 deg. 55 min. N. **longitude:** 74 deg. 20 min. E. **elevation:** 1320m. Cultivated. Seed.
- PI 561810 **origin:** Pakistan. **collected:** July 1986. **collector:** R.J. Metzger, USDA-ARS. **collector id:** 86PK1305-002. **locality:** 20 km from Gilgit on Hunza road. **latitude:** 36 deg. 02 min. N. **longitude:** 74 deg. 20 min. E. **elevation:** 1450m. Cultivated. Seed.

PI 561811. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: Atkins, R.E., Iowa State University, Agronomy Building, Ames, Iowa 50011, United States. Received 1980.

origin: United States. **cultivar:** IAP1R(M)C4. **pedigree:** Derived from controlled pollinations of 10 fertility restorer lines (R-lines) onto bagged genetic male-sterile heads of NP3R populations. **other id:** GP-69. **source:** Crop Sci. 20(5):676 1980. **group:** CSR-SORGHUM. **remarks:** Random-mating population. Highly variable for plant and seed characteristics. Provides reservoir of genetic recombinations and serves as diverse source for R-line selection. Breeding Material. Seed.

PI 561812. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: Atkins, R.E., Iowa State University, Agronomy Building, Ames, Iowa 50011, United States. Received 1981.

origin: United States. **cultivar:** IAP3BR(M)C3. **pedigree:** Derived from controlled pollinations of 30 lines onto bagged genetic male-sterile, ms3, heads of IAP1R(M)C1 population. **other id:** GP-74. **source:** Crop Sci. 22(1):165 1982. **group:** CSR-SORGHUM. **remarks:** Random-mating population. Plant height short to medium. Good agronomic type. Highly variable for plant and seed characteristics. Useful for selection of large-seeded types with wide expression of other agronomic characteristics. Breeding Material. Seed.

PI 561813. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: Atkins, R.E., Iowa State University, Agronomy Building, Ames, Iowa 50011, United States. Received 1982.

origin: United States. **cultivar:** IAP2B(M)C3. **pedigree:** Derivation included selection from NP2B (constituted from intermated seed of backcrosses of 8 B-lines to A1 cytoplasm -- Combine Kafir-60, Martin, Reliance, Westland, Wheatland, Redlan, Dwarf Redlan, and Tx606). **other id:** GP-131. **source:** Crop Sci. 22(6):1275 1982. **group:** CSR-SORGHUM. **remarks:** Plant medium to moderately short. Random-mating population. Highly variable for other plant and seed characteristics. Breeding Material. Seed.

PI 561814 to 561825. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: Atkins, R.E., Iowa State University, Agronomy Building, Ames, Iowa 50011, United States. Received 1983.

PI 561814 **origin:** United States. **cultivar:** IA17. **pedigree:** Derived from (CK60 x Redlan) x IS2541c. **other id:** PL-90. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Compact panicle type. Glume color black. Awnless. Seed color light red. Testa present. Plant height medium tall. Maturity medium early. Breeding Material. Seed.

PI 561815 **origin:** United States. **cultivar:** IA18. **pedigree:** Derived from (Martin x Redlan) x IS2563c. **other id:** PL-91. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Compact panicle type. Glume color straw. Awnless. Seed color light red. Testa absent. Plant height medium short. Maturity medium late. Cultivated. Breeding Material. Seed.

PI 561814 to 561825-continued

- PI 561816 **origin:** United States. **cultivar:** IA19. **pedigree:** Derived from (Martin x Redlan) x IS3063c. **other id:** PL-92. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Medium compact panicle type. Glume color mahogany. Awnless. Seed color dark red. Testa present. Plant height medium tall. Maturity medium early. Cultivated. Breeding Material. Seed.
- PI 561817 **origin:** United States. **cultivar:** IA20. **pedigree:** Derived from (CK60 x Redlan) x IS7435c. **other id:** PL-93. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Medium open panicle type. Glume color sienna. Awns present. Seed color white. Testa absent. Plant height medium. Maturity medium early. Cultivated. Breeding Material. Seed.
- PI 561818 **origin:** United States. **cultivar:** IA21. **pedigree:** Derived from (CK60 x Redlan) x IS7720c. **other id:** PL-94. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Compact panicle type. Glume color black. Awns present. Seed color white. Testa absent. Plant height medium short. Maturity medium early. Cultivated. Breeding Material. Seed.
- PI 561819 **origin:** United States. **cultivar:** IA22. **pedigree:** Derived from (CK60 x Redlan) x IS12610c. **other id:** PL-95. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Compact panicle type. Glume color mahogany. Awnless. Seed color dark red. Testa absent. Plant height medium. Maturity medium early. Cultivated. Breeding Material. Seed.
- PI 561820 **origin:** United States. **cultivar:** IA23. **pedigree:** Derived from (CK60 x Redlan) x IS2573c. **other id:** PL-96. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Medium compact panicle type. Glume color sienna. Awnless. Seed color white. Testa absent. Plant height medium. Maturity medium early. Cultivated. Breeding Material. Seed.

PI 561814 to 561825-continued

- PI 561821 **origin:** United States. **cultivar:** IA24. **pedigree:** Derived from (CK60 x Martin) x IS12610c. **other id:** PL-97. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Medium compact panicle type. Glume color mahogany. Awnless. Seed color light red. Testa absent. Plant height medium short. Maturity medium. Cultivated. Breeding Material. Seed.
- PI 561822 **origin:** United States. **cultivar:** IA25. **pedigree:** Derived from KS24 x IS2403c. **other id:** PL-98. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Medium compact panicle type. Glume color mahogany. Awnless. Seed color red. Testa absent. Plant height medium short. Maturity medium early. Cultivated. Breeding Material. Seed.
- PI 561823 **origin:** United States. **cultivar:** IA26. **pedigree:** Derived from KS24 x IS2573c. **other id:** PL-99. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Medium compact panicle type. Glume color mahogany. Awnless. Seed color red. Testa absent. Plant height medium tall. Maturity medium late. Cultivated. Breeding Material. Seed.
- PI 561824 **origin:** United States. **cultivar:** IA27. **pedigree:** Derived from CK60 x IS12569c. **other id:** PL-100. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Compact panicle type. Glume color sienna. Awnless. Seed color white. Testa absent. Plant height medium short. Maturity medium late. Cultivated. Breeding Material. Seed.
- PI 561825 **origin:** United States. **cultivar:** IA28. **pedigree:** Derived from IS3464c Sel., S4 (4 is subscript) of Temp. Bulk. **other id:** PL-101. **source:** Crop Sci. 23(6):1229 1983. **group:** CSR-SORGHUM. **remarks:** Inbred line. Good agronomic type. Seed large. Compact panicle type. Glume color black. Awnless. Seed color dark red. Testa absent. Plant height medium short. Maturity medium late. Cultivated. Breeding Material. Seed.

PI 561826 to 561837. Sorghum bicolor (L.) Moench POACEAE

Donated by: Atkins, R.E., Iowa State University, Agronomy Building, Ames, Iowa 50011, United States. **Received** 1984.

PI 561826 to 561837-continued

- PI 561826 **origin:** United States. **cultivar:** IA29. **pedigree:** Derived from A2Tx2753 x B2 "Martin" (SA398). **other id:** PL-144. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material.
- PI 561827 **origin:** United States. **cultivar:** IA30. **pedigree:** Derived from A2Tx2753 x B2 "Combine Kafir 60" (SA3197). **other id:** PL-145. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material.
- PI 561828 **origin:** United States. **cultivar:** IA31. **pedigree:** Derived from A2Tx2753 x B2 "Redbine 58". **other id:** PL-146. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material. Seed.
- PI 561829 **origin:** United States. **cultivar:** IA32. **pedigree:** Derived from A2Tx2753 x B2 "Wheatland" (SA399). **other id:** PL-147. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material.
- PI 561830 **origin:** United States. **cultivar:** IA33. **pedigree:** Derived from A2Tx2753 x B2 Redlan (SA378). **other id:** PL-148. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material.
- PI 561831 **origin:** United States. **cultivar:** IA34. **pedigree:** Derived from A2Tx2753 x BS KS24. **other id:** PL-149. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material. Seed.

- PI 561832 **origin:** United States. **cultivar:** IA35. **pedigree:** Derived from A2Tx2753 x B2 Dwarf Redlan, Tx2749. **other id:** PL-150. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material.
- PI 561833 **origin:** United States. **cultivar:** IA36. **pedigree:** Derived from A2Tx2753 x B2, 83AS2296 (Sel. of TAM Bk-43). **other id:** PL-151. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material.
- PI 561834 **origin:** United States. **cultivar:** IA37. **pedigree:** Derived from A2Tx2753 x B2, 83AS2297 (Sel. of TAM Bk-44). **other id:** PL-152. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material. Seed.
- PI 561835 **origin:** United States. **cultivar:** IA38. **pedigree:** Derived from A1 Redbine 58 x B1, 83AS2296 (Sel. of TAM Bk-43). **other id:** PL-153. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material.
- PI 561836 **origin:** United States. **cultivar:** IA39. **pedigree:** Derived from A1 Redbine 58 x B1, 83AS2297 (Sel. of TAM Bk-44). **other id:** PL-154. **source:** Crop Sci. 24(6):1227 1984. **group:** CSR-SORGHUM. **remarks:** Maintainer line. Used to provide additional cytoplasmic and genetic diversity as germplasm and as potential parents for hybrid seed production. Cultivated. Breeding Material.
- PI 561837 **origin:** United States. **cultivar:** IAP5R(M)C3. **pedigree:** Derived from controlled pollinations of 28 fertility-restorer lines (R-lines to milo A1 cytoplasm system) onto bagged genetic male-sterile (ms3) panicles of IAP1R(M)C3. **other id:** GP-143. **source:** Crop Sci. 24(6):1219 1984. **group:** CSR-SORGHUM. **remarks:** Random-mating population. Highly variable for many plant and seed characteristics. Cultivated. Breeding Material. Seed.

PI 561838 to 561839. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: Ross, W.M., University of Nebraska, East Campus, 329 Keim Hall, Lincoln, Nebraska 68583, United States. Received 1985.

PI 561838 **origin:** United States. **cultivar:** RP2B(S1)C3(ECB). **pedigree:** Derived from RP2B. **other id:** GP-208. **source:** Crop Sci. 27(3):614 1987. **group:** CSR-SORGHUM. **remarks:** Random-mating populations with resistance to European corn borer. Desirable agronomic traits. Source of useful B-lines. Segregates for genetic male sterility. Cultivated. Breeding Material.

PI 561839 **origin:** United States. **cultivar:** RP4BR(S1)C3(ECB). **pedigree:** Derived from recurrent selection in NP11BR. **other id:** GP-209. **source:** Crop Sci. 27(3):614 1987. **group:** CSR-SORGHUM. **remarks:** Random-mating populations with resistance to European corn borer. Desirable agronomic traits. Source of useful B-lines. Segregates for genetic male sterility. Cultivated. Breeding Material.

PI 561840. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: Atkins, R.E., Iowa State University, Agronomy Building, Ames, Iowa 50011, United States. Received 1985.

origin: United States. **cultivar:** IAP4R(S1)C3. **pedigree:** Derived from 10 fertility restorer lines -- Tx7078, Tx7000 (Caprock), Tx2536, NB9040, Iowa selections Redbine 58 x Ak 9-2, & Redlan x OKY7, IS2403c, IS3063c, IS12567c, & IS12608c, & IS12608c temperate bulks. **other id:** GP-181. **source:** Crop Sci. 26(2):391 1986. **group:** CSR-SORGHUM. **remarks:** Random-breeding population. Highly variable for plant and seed characteristics. Used to provide genetic recombinations for grain yield and other traits. Cultivated. Breeding Material.

PI 561841. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: Iowa Agr. Exp. Sta., Iowa, United States. Received 1989.

origin: United States. **cultivar:** IAP6B(M)C3. **pedigree:** Derived from controlled pollinations of 21 nonrestorer lines (B-lines to the milo A1 cytoplasm system) onto bagged genetic male-sterile (ms3) panicles of IAP2B(M)C3 population. **other id:** GP-198. **source:** Crop Sci. 26(6):1263 1986. **group:** CSR-SORGHUM. **remarks:** Random-mating population. Highly variable for many plant and seed characteristics. Cultivated. Breeding Material.

PI 561842. *Triticum aestivum* L., nom. cons. POACEAE Wheat

Donated by: Johnson, J.W., Georgia Agr. Exp. Sta., University of Georgia, Griffin, Georgia 30223-1797, United States; and Agricultural Research Service -- USDA. **remarks:** GA-GORE. Received July 16, 1992.

origin: United States. **developed:** J.W. Johnson, B.M. Cunfer, P.L. Bruckner, G.D. Buntin, J.J. Roberts, D. Bland. **origin institute:** Georgia Agr. Exp. Sta., University of Georgia, Griffin, Georgia 30223-1797 United States. **cultivar:** GA-GORE. **pedigree:** Coker 797/Stacy. **other id:** 79118-1-7. **other id:** CV-782. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Soft red winter wheat, apically awnletted, white chaffed. Maturity late. Height medium. Spikes middense, fusiform, and erect. Kernels red, midlong and oval. Resistant to biotypes E, G, M, and O of Hessian fly. Resistant to leaf rust. Moderate resistance to powdery mildew. Resistant to glume blotch. Facultative Annual. Cultivar. Seed.

PI 561843. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Johnson, J.W., Georgia Agr. Exp. Sta., University of Georgia, Griffin, Georgia 30223-1797, United States; and Agricultural Research Service -- USDA. **remarks:** GA-ANDY. Received July 16, 1992.

origin: United States. **developed:** J.W. Johnson, G.D. Buntin, P.L. Bruckner, B.M. Cunfer, J.J. Roberts, D. Bland. **origin institute:** Georgia Agr. Exp. Sta., University of Georgia, Griffin, Georgia 30223-1797 United States. **cultivar:** GA-ANDY. **pedigree:** Coker 68-15 *2//Libellula/Aurora. **other id:** 781197-3. **other id:** CV-783. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Soft red winter wheat, apically awnletted, white chaffed. Maturity early. Straw stiff. Height medium. Spikes middense, oblong and erect. Kernels red, midlong, and elliptical. Resistant to biotypes E, G, M, and O of Hessian fly. Resistant to leaf rust. Moderate resistance to powdery mildew and glume blotch. Spring Annual. Cultivar. Seed.

PI 561844. X *Triticosecale* sp. POACEAE Triticale

Donated by: Wilson, J.P., Agricultural Research Service -- USDA, Univ. of Georgia Coastal Plain Exp. Sta., Tifton, Georgia 31793, United States; and Georgia Agr. Exp. Sta.; and Purdue University Agr. Exp. Sta.. **remarks:** GA-SRT Slow Leaf-Rusting Triticale Germplasm. Received July 23, 1992.

origin: United States. **developed:** J.P. Wilson, P.L. Bruckner, G. Shaner, J.W. Johnson. **origin institute:** Agricultural Research Service -- USDA, Univ. of Georgia Coastal Plain Exp. Sta., Tifton, Georgia 31793 United States. **cultivar:** GA-SRT. **pedigree:** PI 429220/PI 434889. **other id:** GP-13. **group:** CSR-TRITICALE. **restricted:** CSR. **remarks:** Slow-rusting resistance to leaf rust (*Puccinia recondita* f. sp. *tritici*). Both parents are complete, hexaploid triticales which express long-latent period resistance to leaf rust. Combines excellent leaf rust resistance of parental lines with improved agronomic characteristics. Exhibits spring growth habit with early maturity and is 10-11 dm in height under Georgia conditions. Spring Annual. Breeding Material. Seed.

PI 561845. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Sorensen, E.L., Agricultural Research Service -- USDA, Kansas State University, Manhattan, Kansas 66506, United States; and Kansas Agr. Exp. Sta.. **remarks:** KS 220 Alfalfa Germplasm. Received July 23, 1992.

origin: United States. **developed:** E.L. Sorensen, D.L. Stuteville, E.K. Horber, R.N. Peaden, D.Z. Skinner. **origin institute:** Agricultural Research Service -- USDA, Kansas State University, Manhattan, Kansas 66506 United States. **cultivar:** KS 220. **pedigree:** Derived from NC-83-2. **other id:** GP-260. **group:** CSR-ALFALFA. **other id:** W6 10659. **group:** W6. **restricted:** CSR. **remarks:** Resistant to anthracnose (*Colletotrichum trifolii*, race 1), bacterial wilt (*Clavibacter michiganense* subsp. *insidiosum*), fusarium wilt (*Fusarium oxysporum* f. sp. *medicaginis*), downy mildew (*Peronospora trifoliorum*) phytophthora root rot (*Phytophthora medicaginis* sp. nov.), verticillium wilt (*Verticillium albo-atrum*), blue alfalfa aphid (*Acyrtosiphon kondoi*), spotted alfalfa aphid (*Therioaphis maculata*) and pea aphid (*Acyrtosiphon pisum*). Perennial. Breeding Material. Seed.

PI 561846 to 561855. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Ejeta, G., Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150, United States; and Texas Agr. Exp. Sta.. **remarks:** Ten Sorghum Parental Lines. Received July 23, 1992.

PI 561846 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89001. **pedigree:** (TAM428*M62641)-8-bk-3-1-bk-bk-bk. **other id:** PL-237. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in A1 cytoplasm but fertility restoration in other cytoplasms is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds buff, translucent, & 2.70gm per 100. Epicarp white or colorless, mesocarp thin, endosperm white, & no testa. Spring Annual. Breeding Material. Seed.

PI 561847 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89002. **pedigree:** (TAM428*M62641)-17-bk-3-3-bk-bk-bk. **other id:** PL-238. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in A1 cytoplasm but fertility restoration in other cytoplasms is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds buff, translucent, & 2.15gm per 100. Epicarp white or colorless, mesocarp thin, endosperm white, & no testa. Spring Annual. Breeding Material. Seed.

PI 561848 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89003. **pedigree:** (TX2794*K22/35)-3-bk-1-1-bk-bk-bk. **other id:** PL-239. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in A1 cytoplasm but fertility restoration in other cytoplasms is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds yellow, translucent, & 2.11gm per 100. Epicarp white or colorless, mesocarp thin, endosperm yellow, & no testa. Spring Annual. Breeding Material. Seed.

PI 561849 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89004. **pedigree:** (TX2794*K22/35)-10-bk-3-3-bk-bk-bk. **other id:** PL-240. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in A1 cytoplasm but fertility restoration in other cytoplasms is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds yellow, translucent, & 2.39gm per 100. Epicarp white or colorless, mesocarp thin, endosperm yellow, & no testa. Spring Annual. Breeding Material. Seed.

- PI 561850 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89005. **pedigree:** (TX2794*K22/35)-15-bk-2-2-bk-bk-bk. **other id:** PL-241. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in Al cytoplasm but fertility restoration in other cytoplasms is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds yellow, translucent, & 2.57gm per 100. Epicarp white or colorless, mesocarp thin, endosperm yellow, & no testa. Spring Annual. Breeding Material. Seed.
- PI 561851 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89006. **pedigree:** (TX430*K1597)-10-bk-1-1-bk-bk-bk. **other id:** PL-242. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in Al cytoplasm but fertility restoration in other cytoplasms is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds yellow, translucent, & 3.22gm per 100. Epicarp white or colorless, mesocarp thin, endosperm yellow, & no testa. Spring Annual. Breeding Material. Seed.

- PI 561852 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89007. **pedigree:** (TX430*K1597)-3-bk-2-2-bk-bk-bk. **other id:** PL-243. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in A1 cytoplasm but fertility restoration in other cytoplasms is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds yellow, translucent, & 2.35gm per 100. Epicarp white or colorless, mesocarp thin, endosperm yellow, & no testa. Spring Annual. Breeding Material. Seed.
- PI 561853 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89008. **pedigree:** (TX430*K443)-8-bk-1-1-bk-bk-bk. **other id:** PL-244. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in A1 cytoplasm but fertility restoration in other cytoplasms is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds yellow, translucent, & 3.90gm per 100. Epicarp white or colorless, mesocarp thin, endosperm yellow, & no testa. Spring Annual. Breeding Material. Seed.

PI 561854 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89009. **pedigree:** (TX430*K22/35)-1-bk-3-3-bk-bk-bk. **other id:** PL-245. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in Al cytoplasm but fertility restoration in other cytoplasm is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds yellow, translucent, & 3.45gm per 100. Epicarp white or colorless, mesocarp thin, endosperm yellow, & no testa. Spring Annual. Breeding Material. Seed.

PI 561855 **donor id:** 47900. **origin:** United States. **developed:** G. Ejeta, D.T. Rosenow. **origin institute:** Purdue University Indiana Agr. Exp. Sta., Dept. of Agronomy, West Lafayette, Indiana 47907-1150 United States. **cultivar:** P89010. **pedigree:** (TAM428*K1/4)-2-bk-2-1-bk-bk-bk. **other id:** PL-246. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Restores fertility in Al cytoplasm but fertility restoration in other cytoplasm is not known. Line showed broad adaptation with excellent potential for use both in US & Sudan, Africa. Superior drought tolerance, evident grain quality, & agronomic merit both as a germplasm line per se & in hybrid combinations. Excellent pollen shedder, leaf mid-ribs green, & endosperm texture hard. Panicles semi-compact & erect. Seeds buff, translucent, & 3.36gm per 100. Epicarp white or colorless, mesocarp thin, endosperm yellow, & no testa. Spring Annual. Breeding Material. Seed.

PI 561856. *Stenotaphrum secundatum* (Walter) Kuntze POACEAE St. Augustinegrass

Donated by: Busey, P., Florida Agr. Exp. Sta., Fort Lauderdale Res. Educ. Center, Fort Lauderdale, Florida 33314, United States.
remarks: FX-10 St. Augustinegrass. Received June 30, 1992.

origin: United States. **developed:** P. Busey. **origin institute:** Florida Agr. Exp. Sta., Fort Lauderdale Res. Educ. Center, University of Florida, Fort Lauderdale, Florida 33314 United States. **cultivar:** FX-10. **pedigree:** (PI 290888/PI 293666)/(PI 300127/PI 300130). **other id:** CV-153. **group:** CSR-OTHER GRASSES. **restricted:** CSR. **remarks:** Vegetatively propagated genotype. Resistant to PDP southern chinch bug and to seasonal drought. Moderately resistant to gray leaf spot. Hairs sparse on adaxial surfaces of young leaf blades. Leaves very coarse, bluish-colored. Spikelets average 4.5mm long. Anther color approx. 10YR 7/10 and stigma color 5RP 3/10. Unreduced chromosome number is $2n=30$ and chromosomes associate in diakinesis principally as bivalents with regular disjunction. Perennial. Cultivar. Cutting.

PI 561857. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by: Gupta, S.C., SADCC/ICRISAT, P.O. Box 776, Bulawayo, Zimbabwe. **remarks:** SDML 89107 Brown Midrib Pearl Millet. Received August 07, 1992.

origin: Zimbabwe. **developed:** S.C. Gupta, E.S. Monyo, S. Appa Rao. **origin institute:** SADCC/ICRISAT, P.O. Box 776, Bulawayo Zimbabwe. **cultivar:** SDML 89107. **pedigree:** Bulk of S3 seed derived from a brown mid rib plant identified from IP 16493. **other id:** GP-28. **group:** CSR-MILLET, PEARL. **restricted:** CSR. **remarks:** Brown mid rib line. 10.7% more dry matter digestibility than its normal counterpart. Height medium 1.8-2.8m. Stem robust. Resistant to lodging. Flowers in 61-93 days. Matures in 95-120 days. Anther color yellow to purple. Spikes medium long 27-43cm. Thickness 25-35mm. Spikes conicle to spindle shape, and nonbristled. Grain medium size 8.3-10.3mg per grain, globular, yellow, and partly corneus endosperm. Resistance good to downy mildew and smut. Spring Annual. Breeding Material. Seed.

PI 561858. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Graef, G.L., Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915, United States. **remarks:** Holt Soybean. Received August 13, 1992.

origin: United States. **developed:** G.L. Graef, J.E. Specht, D.M. White, L.L. Korte. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Dept. of Agronomy, Lincoln, Nebraska 68583-0915 United States. **cultivar:** Holt. **pedigree:** Sherman X Harper. **other id:** CV-303. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Early maturity group II. Flowers white. Pods brown. Growth habit indeterminate. Seeds dull yellow. Hila buff. Average plant height 0.81m. Lodging resistance excellent. Seed size average 177mg seed-1, protein 40.0%, and oil content 21.6% on dry weight basis. Susceptible to most major soybean diseases. Spring Annual. Cultivar. Seed.

PI 561859. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Widstrom, N.W., Agricultural Research Service -- USDA, IBPMRL - Georgia Coastal Plain Exp. Sta., Tifton, Georgia 31793, United States; and Georgia Agr. Exp. Sta.. **remarks:** No Certificate Requested. Received August 13, 1992.

origin: United States. **developed:** W.W. McMillian, N.W. Widstrom, D.M. Wilson. **origin institute:** Agricultural Research Service -- USDA, IBPMRL - Georgia Coastal Plain Exp. Sta., P.O. Box 748, Tifton, Georgia 31793 United States. **cultivar:** GT-MAS:GK. **pedigree:** Base population 100-200 kernels from a single open-pollinated hybrid ear of unknown origin. **other id:** GP-241. **group:** CSR-MAIZE. **restricted:** CSR. **remarks:** Selected kernels not infected by *Aspergillus flavus*. Population maintained by bulk sibbing of at least 100 plants. Cob red, population variable for most agronomic traits. Plants vary in maturity. Grain quality average. Yield potential moderate, but ears susceptible to insect feeding. Resistance to aflatoxin is believed to have a chemical basis. Spring Annual. Breeding Material. Seed.

PI 561860. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Graef, G.L., Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915, United States. **remarks:** Lancaster Soybean. Received July 30, 1992.

origin: United States. **developed:** G.L. Graef, J.E. Specht, L.L. Korte, D.M. White. **origin institute:** Nebraska Agr. Exp. Sta., University of Nebraska, Dept. of Agronomy, Lincoln, Nebraska 68583-0915 United States. **cultivar:** Lancaster. **pedigree:** K1047 X Mead. **other id:** CV-304. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Determinate maturity group III. Average plant height 0.56m and seed size 173mg seed-1. Flowers purple. Pods tan. Seeds dull yellow with black hila. Seed protein content averages approx. 44% on a 0% moisture basis. Heterogeneous for resistance to race 4 of Phytophthora rot (Phytophthora megasperma f. sp. glycinea). Spring Annual. Cultivar. Seed.

PI 561861 to 561914. *Triticum aestivum* L., nom. cons. POACEAE Hard red winter wheat

Donated by: Carver, B.F., Oklahoma Agr. Exp. Sta., Oklahoma State University, Stillwater, Oklahoma 74078-0507, United States. **remarks:** Wheat Genetic Stocks: 1B, 1RS.1BL Near-isolines. Received July 30, 1992.

PI 561861 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G109. **pedigree:** OK83398/Chisholm. **other id:** GS-7. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561862 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G110. **pedigree:** OK83398/Chisholm. **other id:** GS-8. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561863 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G111. **pedigree:** OK83398/Chisholm. **other id:** GS-9. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561864 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G112. **pedigree:** OK83398/Chisholm. **other id:** GS-10. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561865 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G113. **pedigree:** OK83398/Chisholm. **other id:** GS-11. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561866 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G114. **pedigree:** OK83398/Chisholm. **other id:** GS-12. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561867 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G115. **pedigree:** OK83398/Chisholm. **other id:** GS-13. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561868 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G116. **pedigree:** OK83398/Chisholm. **other id:** GS-14. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561869 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G117. **pedigree:** OK83398/Chisholm. **other id:** GS-15. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561870 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G118. **pedigree:** OK83398/Chisholm. **other id:** GS-16. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561871 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G119. **pedigree:** OK83398/Chisholm. **other id:** GS-17. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561872 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G120. **pedigree:** OK83398/Chisholm. **other id:** GS-18. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561873 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G121. **pedigree:** OK83398/Chisholm. **other id:** GS-19. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561874 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G122. **pedigree:** OK83398/Chisholm. **other id:** GS-20. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561875 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G123. **pedigree:** OK83398/Chisholm. **other id:** GS-21. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561876 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G124. **pedigree:** OK83398/Chisholm. **other id:** GS-22. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561877 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G125. **pedigree:** OK83398/Chisholm. **other id:** GS-23. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561878 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G126. **pedigree:** OK83398/Chisholm. **other id:** GS-24. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561879 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G127. **pedigree:** OK83398/Chisholm. **other id:** GS-25. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561880 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G128. **pedigree:** OK83398/Chisholm. **other id:** GS-26. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561881 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G129. **pedigree:** OK83398/Chisholm. **other id:** GS-27. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561882 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G130. **pedigree:** OK83398/Chisholm. **other id:** GS-28. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561883 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G131. **pedigree:** OK83398/Chisholm. **other id:** GS-29. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561884 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G132. **pedigree:** OK83398/Chisholm. **other id:** GS-30. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561885 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G133. **pedigree:** OK83398/Chisholm. **other id:** GS-31. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561886 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G134. **pedigree:** OK83398/Chisholm. **other id:** GS-32. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561887 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G135. **pedigree:** OK83398/Chisholm. **other id:** GS-33. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561888 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G136. **pedigree:** OK83398/Chisholm. **other id:** GS-34. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561889 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G137. **pedigree:** OK83398/Chisholm. **other id:** GS-35. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561890 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G138. **pedigree:** OK83398/Chisholm. **other id:** GS-36. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561891 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G139. **pedigree:** OK83398/Chisholm. **other id:** GS-37. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561892 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G140. **pedigree:** OK83398/Chisholm. **other id:** GS-38. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561893 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G141. **pedigree:** OK83398/Chisholm. **other id:** GS-39. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561894 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G142. **pedigree:** OK83398/Chisholm. **other id:** GS-40. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561895 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G143. **pedigree:** OK83398/Chisholm. **other id:** GS-41. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561896 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G144. **pedigree:** OK83398/Chisholm. **other id:** GS-42. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561897 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G145. **pedigree:** OK83398/Chisholm. **other id:** GS-43. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561898 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G146. **pedigree:** OK83398/Chisholm. **other id:** GS-44. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of lRS.1BL were developed by selfing heterozygous plants (lRS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or lRS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561899 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G147. **pedigree:** OK83398/Arkan. **other id:** GS-45. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of lRS.1BL were developed by selfing heterozygous plants (lRS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or lRS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561900 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G148. **pedigree:** OK83398/Arkan. **other id:** GS-46. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561901 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G149. **pedigree:** OK83398/Arkan. **other id:** GS-47. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561902 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G150. **pedigree:** OK83398/Arkan. **other id:** GS-48. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561903 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G151. **pedigree:** OK83398/Arkan. **other id:** GS-49. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561904 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G152. **pedigree:** OK83398/Arkan. **other id:** GS-50. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561905 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G153. **pedigree:** OK83398/Arkan. **other id:** GS-51. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561906 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G154. **pedigree:** OK83398/Arkan. **other id:** GS-52. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561907 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G155. **pedigree:** OK83398/Arkan. **other id:** GS-53. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561908 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G156. **pedigree:** OK83398/Arkan. **other id:** GS-54. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561909 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G157. **pedigree:** OK83398/Arkan. **other id:** GS-55. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561910 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G158. **pedigree:** OK83398/Arkan. **other id:** GS-56. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561911 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G159. **pedigree:** OK83398/Arkan. **other id:** GS-57. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

- PI 561912 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G160. **pedigree:** OK83398/Arkan. **other id:** GS-58. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.
- PI 561913 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G161. **pedigree:** OK83398/Arkan. **other id:** GS-59. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

PI 561861 to 561914-continued

PI 561914 **origin:** United States. **developed:** B.F. Carver, A.L. Rayburn, R.M. Hunger, E.L. Smith W.E. Whitmore. **origin institute:** Oklahoma Agr. Exp. Sta., Oklahoma State University, Dept. of Agronomy, Stillwater, Oklahoma 74078 United States. **origin institute id:** OK91G162. **pedigree:** OK83398/Arkan. **other id:** GS-60. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Pairs of near-isolines differing for the presence or absence of 1RS.1BL were developed by selfing heterozygous plants (1RS.1BL//1B) in the F2 to F4 generations. One pair of homozygous near-isolines was isolated in each of 27 F5 families descending from a different F2 plant. No selection was imposed except for chromosome type. Segregation has been observed for plant stature (mostly semi-dwarf, some dwarf), and reaction to soil-born mosaic virus and tan spot (*Pyrenophora tritici-repentis*). This variation is not linked to chromosome type 1B or 1RS.1BL. Winter Annual. Genetic Material. Seed.

PI 561915. *Cucumis metuliferus* E. Mey. ex Naud. CUCURBITACEAE Horned cucumber jelly melon

Donated by: Providenti, R., New York State Agr. Exp. Sta., Cornell University, P.O. Box 462, Geneva, New York 14456, United States. Received July 23, 1992.

origin: United States. **pedigree:** PI 292190 (S. Africa)/No. 2459 (Angola). **remarks:** F2 seeds, hence, plants segregate in the ratio 3 resistant: 1 susceptible for papaya ringspot virus W, previously known as watermelon mosaic virus 1. Spring Annual. Genetic Material. Seed.

PI 561916. *Arachis hypogaea* subsp. *fastigiata* Waldron FABACEAE Groundnut

Donated by: Dwivedi, S.L., ICRISAT, Patancheru P.O., Andhra Pradesh 502 324, India. **remarks:** ICGL6 (Puckered Leaf) Peanut Genetic Stock. Received July 31, 1992.

origin: India. **developed:** S.N. Nigam, S.L. Dwivedi, M.D. Khaja, V. Papaiah. **origin institute:** ICRISAT, Patancheru P.O., Andhra Pradesh 502 324 India. **cultivar:** ICGL 6. **pedigree:** Stabilized natural mutant isolated from peanut cultivar OG 66-6-1. **other id:** GS-1. **group:** CSR-PEANUT. **other id:** Puckered leaf mutant. **remarks:** Compact spanish type leaf mutant. Leaves yellow stripe along leaf margin. Growth habit erect. Flowers orange standard & yellow wing petals similar to OG 66-6-1. Main axis & canopy breadth smaller than OG 66-6-1. Two-seeded pods, slight-to-moderate pod beak, constriction, & reticulation. Pod ridges absent. Similar meat content, seed testa color tan, & oil content, but 100-seed mass lower than OG 66-6-1. Protein content relatively higher than OG 66-6-1. Spring Annual. Genetic Material. Seed.

PI 561917. *Arachis hypogaea* subsp. *fastigiata* Waldron FABACEAE
Groundnut

Donated by: Dwivedi, S.L., ICRISAT, Patancheru P.O., Andhra Pradesh 502 324, India. **remarks:** ICGV 86031, Groundnut. Received July 31, 1992.

origin: India. **developed:** S.L. Dwivedi, D.V.R. Reddy, S.N. Nigam, G.V. Ranga Rao, J.A. Wightman, P.W. Amin, G.V.S. Nagabhushanam, A.S. Reddy. **origin institute:** ICRISAT, Patancheru P.O., Andhra Pradesh 502 324 India. **cultivar:** ICGV 86031. **pedigree:** (F334A-B-14/NC Ac 2214) F2-B1-B3-B2-B3-B2-B3. **other id:** GP-58. **group:** CSR-PEANUT. **remarks:** Resistance to thrips (*Thrips palmi*), jassid (*Empoasca kerri*), *Spodoptera* (*Spodoptera litura*), groundnut leaf miner (*Aproaerema modicella*) & bud necrosis virus (BNV). Photoperiod insensitive & resistant to iron deficiency chlorosis. Growth habit erect. Branching sequential. Leaves elliptic to obovate, dark green, & waxy. Maturity 110 days. 2-1 seeded small-sized pods with slight-to-moderate reticulation & ridges. Seeds rose-tan, 39g/100 seeds. Oil content averages 52%. Protein content averages 20%. Spring Annual. Breeding Material. Seed.

PI 561918 to 561921. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Miller, J.F., Agricultural Research Service -- USDA, Northern Crop Science Laboratory, Fargo, North Dakota 58105, United States; and North Dakota Agr. Exp. Sta.. **remarks:** Two Reduced Height & Two Early Maturity Sunflower Germplasms Germplasms. Received July 31, 1992.

- PI 561918 **origin:** United States. **developed:** J.F. Miller. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab, P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** HA 378. **pedigree:** F6-derived F7 maintainer lines selected from HA 821/DDR. **other id:** GP-177. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Converted to cytoplasmic male sterility (PET 1 cytoplasm) by backcross method. Produced hybrids which were 3-4 days later in both flowering and maturity, and 47cm shorter than check hybrids. May produce hybrids that have significantly less upright head inclination than Hybrid 894 or Hybrid cms HA 821/RHA 274. Homozygous for resistance to North American races of verticillium wilt (*Verticillium dahliae*). Level of self fertility slightly less than HA 821. Spring Annual. Breeding Material. Seed.
- PI 561919 **origin:** United States. **developed:** J.F. Miller. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab, P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** HA 379. **pedigree:** F6-derived F7 maintainer lines selected from HA 821/DDR. **other id:** GP-178. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Converted to cytoplasmic male sterility (PET 1 cytoplasm) by backcross method. Produced hybrids with equivalent flowering and maturity and 51cm shorter than check hybrids. May produce hybrids that have significantly less upright head inclination than Hybrid 894 or Hybrid cms HA 821/RHA 274. Homozygous for resistance to North American races of verticillium wilt (*Verticillium dahliae*). Level of self fertility slightly less than HA 821. Spring Annual. Breeding Material. Seed.
- PI 561920 **origin:** United States. **developed:** J.F. Miller. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab, P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** HA 380. **pedigree:** BC3F5-derived F8 maintainer line selected from USDA 1858-7/3* HA 89. **other id:** GP-179. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Converted to cytoplasmic male sterility (PET 1 cytoplasm) by backcross method. Early maturity germplasm line. Height 97cm. Oil content 469g kg-1. Leaf number 18. Spring Annual. Breeding Material. Seed.

PI 561918 to 561921-continued

PI 561921 **origin:** United States. **developed:** J.F. Miller. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab, P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** RHA 381. **pedigree:** BC3F6-derived F9 restorer line selected from USDA 1869-3/3* RHA 274. **other id:** GP-180. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Restores fertility of the PET 1 sterile cytoplasm. Expresses upper-stem branching conditioned by recessive gene. Early maturity germplasm line. Homozygous for resistance to race 2 downy mildew (*Plasmopara halstedii*). Height 97cm. Oil content 469g kg-1. Leaf number 18. Spring Annual. Breeding Material. Seed.

PI 561922. *Saccharum* hybrid POACEAE Sugarcane

Donated by: Miller, J.D., Agricultural Research Service -- USDA, Sugarcane Field Station, Star Route, Box 8, Canal Point, Florida 33438, United States; and Florida Agr. Exp. Sta.; and Florida Sugar Cane League, Inc.. **remarks:** CP 81-1384 Sugarcane. Received July 31, 1992.

origin: United States. **developed:** P.Y.P. Tai, J.M. Shine, Jr., B. Glaz, J.D. Miller, C.W. Deren, J.C. Comstock. **origin institute:** Agricultural Research Service -- USDA, Sugarcane Field Station, Star Route, Box 8, Canal Point, Florida 33438 United States. **cultivar:** CP 81-1384. **pedigree:** CP 68-1067 (1)/CP 74-2013. **other id:** CV-92. **group:** CSR-SUGARCANE. **restricted:** CSR. **remarks:** Higher cane yields results in 103% & 107% of sugar per acre of CP70-1133 & CP72-1210 checks. Med. to large dia. stalks yellow green under leaf sheath, brownish in areas exposed to sun. Normally doesn't flower under FL conditions. Recommend planting on warm muck & sandy soils. Disease resistance adequate (for commercial production in FL) to sugarcane mosaic virus, leaf scald (*Xanthomonas albilineans*), eye spot (*Bipolaris sacchari*) & smut (*Ustilago scitaminea*). Sporulating pustules of rust (*Puccinia melanocephala*) have been observed, yet no evidence of economic impact. Cultivar. Cutting.

PI 561923 to 561925. *Gossypium barbadense* L. MALVACEAE Cotton

Donated by: Percy, R.G., Agricultural Research Service -- USDA, Maricopa Agricultural Center, Maricopa, Arizona 85239, United States; and Arizona Agr. Exp. Sta.. **remarks:** Three Germplasm Lines of Pima Cotton. Received August 06, 1992.

PI 561923 to 561925-continued

- PI 561923 **origin:** United States. **developed:** R.G. Percy, E.L. Turcotte. **origin institute:** Agricultural Research Service -- USDA, Maricopa Agricultural Center, Maricopa, Arizona 85239 United States. **cultivar:** 8327. **pedigree:** Individual plant selection within an F2 population created from a mass cross of shorter-statured, earlier maturing Pima experimental strains. A subsequent single plant selection was made in the F3 generation. **other id:** American Pima. **other id:** GP-508. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Short-statured. Maturity early. Plant height averages 70cm and matured 60% of its total yield 180 days after planting. Yields averaged 1218kg ha⁻¹ in small plot tests. Fiber properties average 31.2mm for 2.5% staple length, 49.3% for length uniformity, 287kN m kg⁻¹ for T1 strength, and 4.14 for micronaire. Tested as a parent for interspecific F1 hybrids and found to significantly reduce hybrid plant size and maturity time. Breeding Material. Seed.
- PI 561924 **origin:** United States. **developed:** R.G. Percy, E.L. Turcotte. **origin institute:** Agricultural Research Service -- USDA, Maricopa Agricultural Center, Maricopa, Arizona 85239 United States. **cultivar:** 84514. **pedigree:** Pima experimental strains 8004-95-5/7907-38-5-4. **other id:** American Pima. **other id:** GP-509. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Short-statured. Maturity early. Plant height averages 63cm and matured 73% of its total yield 180 days after planting. Yields averaged 998kg ha⁻¹ lint in small plot tests. Fiber properties average 28.9mm for 2.5% staple length, 50.5% for length uniformity, 288kN m kg⁻¹ for T1 strength, and 5.07 for micronaire. Tested as a parent for interspecific F1 hybrids and found to significantly reduce hybrid plant size and maturity time. Breeding Material. Seed.
- PI 561925 **origin:** United States. **developed:** R.G. Percy, E.L. Turcotte. **origin institute:** Agricultural Research Service -- USDA, Maricopa Agricultural Center, Maricopa, Arizona 85239 United States. **cultivar:** 84524. **pedigree:** Pima experimental strains 7804/b2067Ge. **other id:** American Pima. **other id:** GP-510. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Short-statured. Maturity early. Plant height averages 60cm and matured 75% of its total yield 180 days after planting. Yields averaged 643kg ha⁻¹ in small plot tests. Fiber properties average 27.4mm for 2.5% staple length, 45.1% for length uniformity, 235kN m kg⁻¹ for T1 strength, and 3.96 for micronaire. Tested as a parent for interspecific F1 hybrids and found to significantly reduce hybrid plant size and maturity time. Breeding Material. Seed.

PI 561926. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Northrup King Company, United States. Received August 11, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** R160. **other id:** PVP 9200225. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561927. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: Farmers Marketing Corporation, United States. Received August 11, 1992.

origin: United States. **origin institute:** Farmers Marketing Corporation United States. **cultivar:** MAX. **other id:** PVP 9200226. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561928. *Triticum turgidum* L. POACEAE Durum wheat

Donated by: Farmers Marketing Corporation, United States. Received August 11, 1992.

origin: United States. **origin institute:** Farmers Marketing Corporation United States. **cultivar:** D 5456. **other id:** PVP 9200227. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561929. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Limagrain Genetics, United States. Received August 11, 1992.

origin: United States. **origin institute:** Limagrain Genetics United States. **cultivar:** L171. **other id:** PVP 9200228. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561930. *Cucurbita pepo* L. CUCURBITACEAE Pumpkin

Donated by: Johnny's Selected Seeds, United States. Received August 11, 1992.

origin: United States. **origin institute:** Johnny's Selected Seeds United States. **cultivar:** BABY BEAR. **other id:** PVP 9200230. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561931. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Del Monte Corporation, United States. Received August 11, 1992.

origin: United States. **origin institute:** Del Monte Corporation United States. **cultivar:** DMC 04-60. **other id:** PVP 9200231. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561932. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Del Monte Corporation, United States. Received August 11, 1992.

origin: United States. **origin institute:** Del Monte Corporation United States. **cultivar:** DMC 04-61. **other id:** PVP 9200232. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561933. *Triticum aestivum* L., nom. cons. POACEAE Wheat

Donated by: Texas Agr. Exp. Sta., Texas, United States. Received August 11, 1992.

origin: United States. **origin institute:** Texas Agr. Exp. Sta., Texas United States. **cultivar:** TAM 202. **other id:** PVP 9200233. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561934. *Lobelia erinus* L. CAMPANULACEAE Lobelia

Donated by: John Bodger & Sons Company, United States. Received August 11, 1992.

origin: United States. **origin institute:** John Bodger & Sons Company United States. **cultivar:** PALACE BLUE/EYE. **other id:** PVP 9200234. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561935. *Lobelia erinus* L. CAMPANULACEAE Lobelia

Donated by: John Bodger & Sons Company, United States. Received August 11, 1992.

origin: United States. **origin institute:** John Bodger & Sons Company United States. **cultivar:** ROYAL PALACE. **other id:** PVP 9200235. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561936. *Tagetes patula* L. ASTERACEAE Marigold

Donated by: John Bodger & Sons Company, United States. Received August 11, 1992.

origin: United States. **origin institute:** John Bodger & Sons Company United States. **cultivar:** LITTLE HERO FLAME. **other id:** PVP 9200236. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561937. *Tagetes patula* L. ASTERACEAE Marigold

Donated by: John Bodger & Sons Company, United States. Received August 11, 1992.

origin: United States. **origin institute:** John Bodger & Sons Company United States. **cultivar:** LITTLE HERO ORANGE. **other id:** PVP 9200237. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561938. *Tagetes patula* L. ASTERACEAE Marigold

Donated by: John Bodger & Sons Company, United States. Received August 11, 1992.

origin: United States. **origin institute:** John Bodger & Sons Company United States. **cultivar:** LITTLE HERO YELLOW. **other id:** PVP 9200238. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561939. *Pisum sativum* L. FABACEAE Garden pea

Donated by: Rogers NK Seed Company, United States. Received August 11, 1992.

origin: United States. **origin institute:** Rogers NK Seed Company United States. **cultivar:** PJ7625-5-1-1. **other id:** PVP 9200239. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561940. *Allium cepa* L. LILIACEAE Onion

Donated by: Shamrock Seed Company, United States. Received August 11, 1992.

origin: United States. **origin institute:** Shamrock Seed Company United States. **cultivar:** SSC 8380. **other id:** PVP 9200240. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 561941. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Seed Source, Inc., United States. Received August 11, 1992.

origin: United States. **origin institute:** Seed Source, Inc. United States. **cultivar:** SS 109-5. **other id:** PVP 9200241. **source:** Pending. **group:** PVPO. **patent:** PVPO. **Cultivar.** Seed.

PI 561942 to 561944. *Trifolium incarnatum* L. FABACEAE Crimson clover

Donated by: Owsley, C.M., Soil Conservation Service -- USDA, Americus Plant Materials Center, Rt. 6, Box 417 Morris Drive, Americus, Georgia 31709, United States. **remarks:** Received through USDA-SCS, National Plant Materials Center, Bldg. 509, BARC-East, Beltsville, Maryland 20705. Received July 31, 1992.

PI 561942 **origin:** United States. **cultivar:** TRIN3 LINE (CYCLE) 1. **pedigree:** Selected from composite evaluation and selection from 11 crimson clover accessions. **remarks:** Erect cool season annual legume. Growth, vigor, disease & insect resistance good. Bloom dates early compared to Tibbee. Plant ht. 32-62cm. Leaf color 28% dark green, 20% green, 10% green w/red tips, 34% green w/yellow splotches, .08% green w/yellow splotches & red tips. Foliage open. Leaf surface smooth/dull. Fruit head shape cylindrical. Seeds per head 11-96. Seed shape ovate, oval. Seed color yellow. Seed coat smooth. Can be used in conservation tillage systems as cool season cover crop. Potential area of adaptation Southeastern United States. Cultivated. Seed.

PI 561943 **origin:** United States. **cultivar:** TRIN3 LINE (CYCLE) 2. **pedigree:** Selected from composite evaluation and from 11 crimson clover accessions. **remarks:** Erect cool season annual legume. Growth, vigor, disease and insect resistance good. Bloom dates early compared to Tibbee. Plant ht. 32-62cm. Leaf color 28% dark green, 20% green, 10% green w/red tips, 34% green w/yellow splotches, .08% green w/yellow splotches & red tips. Foliage open. Leaf surface smooth/dull. Fruit head shape cylindrical. Seeds per head 11-96. Seed shape ovate, oval. Seed color yellow. Seed coat smooth. Can be used in conservation tillage systems as cool season cover crop. Potential area of adaptation Southeastern United States. Cultivated. Seed.

PI 561942 to 561944-continued

PI 561944 **origin:** United States. **cultivar:** TRIN3 LINE (CYCLE) 3. **pedigree:** Selected from composite evaluation and 11 crimson clover accessions. **remarks:** Erect cool season annual legume. Growth, vigor, disease and insect resistance good. Bloom dates early compared to Tibbee. Plant ht. 32-62cm. Leaf color 28% dark green, 20% green, 10% green w/red tips, 34% green w/yellow splotches, .08% green w/yellow splotches & red tips. Foliage open. Leaf surface smooth/dull. Fruit head shape cylindrical. Seeds per head 11-96. Seed shape ovate, oval. Seed color yellow. Seed coat smooth. Can be used in conservation tillage systems as cool season cover crop. Potential area of adaptation Southeastern United States. Cultivated. Seed.

PI 561945 to 561947. *Vicia villosa* Roth FABACEAE Hairy vetch

Donated by: Owsley, C.M., Soil Conservation Service -- USDA, Americus Plant Materials Center, Rt. 6, Box 417 Morris Drive, Americus, Georgia 31709, United States. **remarks:** Received through USDA-SCS, National Plant Materials Center, Bldg 509, BARC-East, Beltsville, Maryland 20705. Received July 31, 1992.

PI 561945 **origin:** United States. **cultivar:** VIVI LINE 8. **pedigree:** Selection from 9053961. **remarks:** Decumbent cool season annual legume. Growth, vigor, disease and insect resistance good. Bloom dates early compared to commercial hairy vetch. Plant ht. 220-740mm, wd. 660-2100mm. Habit procumbent, (stems trail along ground without putting down roots). Foliage open. Leaf surface smooth/dull. Seeds per pod 2-8. Seed coat smooth. Seed color 59% black, 23% dark brown, 12% very dark brown, 6% olive green. Seed shape round. Can be used in conservation tillage systems as cool season cover crop. Potential adaptation Southeastern United States. Cultivated. Seed.

PI 561946 **origin:** United States. **cultivar:** VIVI LINE 12. **pedigree:** Selection from 9053961. **remarks:** Decumbent cool season annual legume. Growth, vigor, disease and insect resistance good. Bloom dates early compared to commercial hairy vetch. Plant ht. 250-820mm, wd. 550-2000mm. Habit procumbent, (stems trail along ground without putting down roots). Foliage open. Leaf surface smooth/dull. Seeds per pod 3-7. Seed coat smooth. Seed color 66% black, 19% very dark brown, 15% very dark grayish brown. Seed shape round. Can be used in conservation tillage systems as cool season cover crop. Potential adaptation Southeastern United States. Cultivated. Seed.

PI 561945 to 561947-continued

PI 561947 **origin:** United States. **cultivar:** VIVI LINE 26.
pedigree: Selection from 9053961. **remarks:** Decumbent cool season annual legume. Growth, vigor, disease and insect resistance good. Bloom dates early compared to commercial hairy vetch. Plant ht. 200-830mm, wd. 480-1860mm. Habit procumbent, (stems trail along ground without putting down roots). Foliage open. Leaf surface smooth/dull. Seeds per pod 2-9. Seed coat smooth. Seed color 69% black, 22% dark grayish brown, 9% olive green. Seed shape round. Can be used in conservation tillage systems as cool season cover crop. Potential adaptation Southeastern United States. Cultivated. Seed.

PI 561948. *Triticum aestivum* L., nom. cons. POACEAE Wheat

Donated by: Porter, D.R., Agricultural Research Service -- USDA, 1301 N Western St., Stillwater, Oklahoma 74075, United States; and Oklahoma Agr. Exp. Sta.. **remarks:** GRS1201 Wheat Germplasm. Received August 20, 1992.

origin: United States. **developed:** D.R. Porter, J.A. Webster, R.L. Burton, E.L. Smith. **origin institute:** Agricultural Research Service -- USDA, 1301 N. Western St., Stillwater, Oklahoma 74075 United States. **origin institute id:** GRS1201. **pedigree:** Short wheat selection/Scout (TX69A345-2)///Insave F.A.///TAM W-101. **other id:** GP-357. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** 1AL/1RS wheat/rye (*Secale cereale*) translocation line developed by x-ray irradiating mature pollen of an alien substitution wheat X rye hybrid & pollinating TAM W-101. X1 plants selected for fertility & underwent 7 generations of selfing & selecting for fertility. Res. to biotypes B, C, E, G & I of greenbug (*Schizaphis graminum*), conditioned by a single dominant gene located, presumably, on 1RS chromosome derived for Insave F.A. rye. Carries stem rust (*Puccinia graminis*) resistance genes Sr5, Sr7b & Srl7. Matures approx. 2 days later, & slightly taller than TAM W-101. Winter Annual. Breeding Material. Seed.

PI 561949 to 562027. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: McCarty, J.C., Agricultural Research Service -- USDA, Crop Science Research Laboratory, Mississippi State, Mississippi 39762, United States. **remarks:** Seventy-nine Day-Neutral Primitive Cotton Germplasms. Received August 20, 1992.

- PI 561949 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0002. **pedigree:** T-0002/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-511. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0002. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561950 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0007. **pedigree:** T-0007/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-512. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0007. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561951 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0017. **pedigree:** T-0017/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-513. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0017. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561952 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0024. **pedigree:** T-0024/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-514. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0024. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

PI 561953 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0030. **pedigree:** T-0030/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-515. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0030. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

PI 561954 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0031. **pedigree:** T-0031/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-516. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0031. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561955 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0032. **pedigree:** T-0032/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-517. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0032. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561956 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0033. **pedigree:** T-0033/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-518. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0033. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561957 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0036. **pedigree:** T-0036/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-519. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0036. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561958 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0040. **pedigree:** T-0040/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-520. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0040. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561959 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0043. **pedigree:** T-0043/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-521. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0043. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561960 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0045. **pedigree:** T-0045/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-522. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0045. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561961 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0048. **pedigree:** T-0048/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-523. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0048. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561962 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0053. **pedigree:** T-0053/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-524. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0053. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561963 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0055. **pedigree:** T-0055/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-525. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0055. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561964 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0057. **pedigree:** T-0057/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-526. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0057. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561965 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0060. **pedigree:** T-0060/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-527. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0060. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561966 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0061. **pedigree:** T-0061/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-528. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0061. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561967 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0062. **pedigree:** T-0062/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-529. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0062. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561968 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0063. **pedigree:** T-0063/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-530. **group:** CSR-COTTON. **other id:** W6 9808. **group:** W6. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0063. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561969 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0067. **pedigree:** T-0067/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-531. **group:** CSR-COTTON. **other id:** W6 9809. **group:** W6. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0067. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561970 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0068. **pedigree:** T-0068/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-532. **group:** CSR-COTTON. **other id:** W6 9810. **group:** W6. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0068. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561971 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0072. **pedigree:** T-0072/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-533. **group:** CSR-COTTON. **other id:** W6 9811. **group:** W6. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0072. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561972 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0074. **pedigree:** T-0074/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-534. **group:** CSR-COTTON. **other id:** W6 9812. **group:** W6. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0074. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561973 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0076. **pedigree:** T-0076/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-535. **group:** CSR-COTTON. **other id:** W6 9813. **group:** W6. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0076. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561974 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0077. **pedigree:** T-0077/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-536. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0077. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561975 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0078. **pedigree:** T-0078/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-537. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0078. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561976 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0087. **pedigree:** T-0087/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-538. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0087. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561977 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0088. **pedigree:** T-0088/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-539. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0088. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561978 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0091. **pedigree:** T-0091/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-540. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0091. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561979 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0096. **pedigree:** T-0096/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-541. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0096. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561980 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0100. **pedigree:** T-0100/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-542. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0100. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561981 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0101. **pedigree:** T-0101/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-543. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0101. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561982 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0102. **pedigree:** T-0102/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-544. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0102. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561983 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0104. **pedigree:** T-0104/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-545. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0104. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561984 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0106. **pedigree:** T-0106/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-546. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0106. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561985 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0113. **pedigree:** T-0113/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-547. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0113. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561986 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0117. **pedigree:** T-0117/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-548. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0117. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561987 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0119. **pedigree:** T-0119/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-549. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0119. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561988 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0120. **pedigree:** T-0120/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-550. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0120. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561989 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0121. **pedigree:** T-0121/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-551. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0121. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561990 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0124. **pedigree:** T-0124/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-552. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0124. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561991 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0140. **pedigree:** T-0140/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-553. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0140. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561992 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0150. **pedigree:** T-0150/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-554. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0150. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561993 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0151. **pedigree:** T-0151/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-555. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0151. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561994 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0154. **pedigree:** T-0154/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-556. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0154. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561995 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0155. **pedigree:** T-0155/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-557. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0155. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561996 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0156. **pedigree:** T-0156/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-558. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0156. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561997 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0158. **pedigree:** T-0158/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-559. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0158. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 561998 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0162. **pedigree:** T-0162/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-560. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0162. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 561999 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0164. **pedigree:** T-0164/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-561. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0164. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562000 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0165. **pedigree:** T-0165/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-562. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0165. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562001 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0168. **pedigree:** T-0168/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-563. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0168. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562002 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0170. **pedigree:** T-0170/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-564. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0170. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562003 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0174. **pedigree:** T-0174/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-565. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0174. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562004 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0175. **pedigree:** T-0175/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-566. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0175. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562005 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0180. **pedigree:** T-0180/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-567. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0180. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562006 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0182. **pedigree:** T-0182/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-568. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0182. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562007 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0197. **pedigree:** T-0197/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-569. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0197. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562008 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0206. **pedigree:** T-0206/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-570. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0206. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562009 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0212. **pedigree:** T-0212/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-571. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0212. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562010 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0215. **pedigree:** T-0215/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-572. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0215. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562011 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0226. **pedigree:** T-0226/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-573. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0226. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562012 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0228. **pedigree:** T-0228/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-574. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0228. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562013 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0237. **pedigree:** T-0237/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-575. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0237. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562014 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0239. **pedigree:** T-0239/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-576. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0239. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562015 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8844-0243. **pedigree:** T-0243/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-577. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0243. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562016 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0244. **pedigree:** T-0244/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-578. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0244. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

PI 562017 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0245. **pedigree:** T-0245/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-579. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0245. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

PI 562018 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0247. **pedigree:** T-0247/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-580. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0247. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562019 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0257. **pedigree:** T-0257/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-581. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0257. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562020 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0326. **pedigree:** T-0326/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-582. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0326. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562021 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0570. **pedigree:** T-0570/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-583. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0570. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562022 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-0612. **pedigree:** T-0612/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-584. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0612. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562023 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0633. **pedigree:** T-0633/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-585. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0633. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562024 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0634. **pedigree:** T-0634/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-586. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0634. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

- PI 562025 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-0641. **pedigree:** T-0641/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-587. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-0641. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.
- PI 562026 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-9044-1000. **pedigree:** T-1000/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-588. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-1000. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

PI 562027 **origin:** United States. **developed:** J.C. McCarty, Jr., J.N. Jenkins. **origin institute:** Agricultural Research Service -- USDA, Crop Science Research Laboratory, P.O. Box 5367, Mississippi State, Mississippi 39762 United States. **cultivar:** M-8744-1149. **pedigree:** T-1149/Deltapine 16. Day-neutral plants were selected in the F2. Day-neutral progenies were then backcrossed four times to the primitive parent and selected for day-neutrality in the F2 following each backcross. [BC4F4]. **other id:** GP-589. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Day-neutral line developed from photoperiodic primitive race stock T-1149. Agronomic and fiber data can be found in the following publication: McCarty, Jack C., Jr., and J.N. Jenkins. 1992. Cotton germplasm: Characteristics of 79 day-neutral primitive accessions. Mississippi Agric. and For. Exp. Stn. Tech Bull. 184 (In Press). Breeding Material. Seed.

PI 562028 to 562030. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: Kolding, M.F., Oregon Agr. Exp. Sta., 1910 SW 44, Pendleton, Oregon 97801-4221, United States. Received August 01, 1992.

PI 562028 **origin:** United States. **developed:** M.F. Kolding. **origin institute:** Oregon Agr. Exp. Sta., Corvallis, Oregon 97331-2201 United States. **origin institute id:** FB87107-a2012. **pedigree:** FB79019HY/FB77818/2/FB73258/3/DR68-1608/L1/2/S1r/3/FB79198, dwf. **remarks:** Six-row, mid-short, winter habit. Center kernels rough awned. Lateral kernels awnleted to awnless. Spikes semi-dense. Stem normal. Kernels covered, white hulled, white aleurone. Basal rachis short. Rachilla short haired abortive. Lemma hairs wanting. BYDV tolerant. Mid-late. Breeding Material. Seed.

PI 562029 **origin:** United States. **developed:** M.F. Kolding. **origin institute:** Oregon Agr. Exp. Sta., Corvallis, Oregon 97331-2201 United States. **origin institute id:** FB87107-A2001. **pedigree:** FB79019HY/FB77818/2/FB73258/3/DR68-1608/L1/2/S1r/3/FB79198, dwf. **remarks:** Six-row, mid-short, winter habit. Rough awned 10 to 15cm. Spikes semi-dense. Stem normal. Kernels covered, white hulled, white aleurone. Basal rachis short. Glume normal awned. Rachilla short-haired. BYDV tolerant. Mid-late. Breeding Material. Seed.

PI 562030 **origin:** United States. **developed:** M.F. Kolding. **origin institute:** Oregon Agr. Exp. Sta., Corvallis, Oregon 97331-2201 United States. **origin institute id:** FB84279-B0023. **pedigree:** Ltr/Hiproly-235/3/Boyer/DR68-1608, FB81037/ORMB763167-917. **remarks:** Six-row, mid-tall, stiff-straw, winter habit. Rough awned. Kernels covered, white hulled, tend to blue aleurone. Stem normal. Basal rachis short, straight, collar "V" shaped. Normal awned glume. Rachilla near smooth. BYDV tolerant. Medium maturity. Breeding Material. Seed.

PI 562031. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Williams, D.E., Agricultural Research Service -- USDA, National Germplasm Resources Lab, Bldg. 003, 4th Floor, Beltsville, Maryland 20705-2350, United States. Received August 24, 1992.

origin: Haiti. **collected:** May 18, 1989. **collector:** D.E. Williams. **collector id:** 1204. **locality:** Laval, Commune Anse a Veau. Dry, rocky area. North coast of South Peninsula, Sud-Ouest Dept. **latitude:** 18 deg. 30 min. N. **longitude:** 73 deg. 30 min. W. **elevation:** 500m. **remarks:** Fruits very small, 2.5-3.0cm long, 1cm diam., with medium constriction, slight beak. Reticulation fairly smooth, containing 2 tan seeds. Said to be "typical variety of Haitian peanuts". Cultivated. Seed.

PI 562032. *Cicer arietinum* L. FABACEAE Chickpea

Donated by: Singh, O., ICRISAT, Legumes Program, Patancheru, Andhra Pradesh 502 324, India; and Nat. Grain Leg. Res. Prog.(NGLRP), Nepal. **remarks:** Kalika Chickpea. Received August 13, 1992.

donor id: ICCL 82108. **origin:** Nepal. **developed:** K.R. Tiwari, B.B. Dewan, Onkar Singh, R.P. Sah. **origin institute:** Nat. Grain Legumes Res.Prog.(NGLRP)Nepal, Rampur, Chitawan Nepal. **cultivar:** KALIKA. **pedigree:** (JG 62/WR 315)/(P1363/PRR1). **other id:** CV-104. **group:** CSR-OTHER LEGUMES. **remarks:** Plant height approx. 50cm, semispreading. Foliage green with anthocyanin pigmentation. Flowers pink. Leaf compound. Twin-podded, flowers and matures 80-150 days respectively in Nepal. Seeds brown, shaped like rain head. 100-seed mass 19g. Resistant to race 1 of *Fusarium oxysporum*. Less susceptible to *Helicoverpa armigera* podborer, gray mold, root knot nematodes and soil acidity. Good nodulation ability. Does well under both irrigated and nonirrigated conditions. Winter Annual. Cultivar. Seed.

PI 562033 to 562034. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: ICRISAT, Patancheru P.O., Andhra Pradesh 502 324, India. **remarks:** Received through R.A. Fredriksen, Texas A&M University, College Station, Texas 77843. Received August 06, 1992.

PI 562033 **origin:** India. **cultivar:** ICSV 247. Cultivated. Seed.

PI 562034 **origin:** India. **cultivar:** IRAT 204. Cultivated. Seed.

PI 562035. *Glycyrrhiza uralensis* Fischer ex DC. FABACEAE Legume

Donated by: Central Siberian Botanical Garden, Siberian Dept., Russian Acad. of Sci., Zolotodolirskaia St., 101, Novosibirsk, 90 630090, Russian Federation. Received August 20, 1992.

donor id: 263. **origin:** Russian Federation. **collected:** September 1991. **other id:** BE 4224. **other id:** W6 10962. **group:** W6. **locality:** Solonetz soil, steppe bordered with birch-aspen, Burlinsky Region, Altai. **remarks:** Leaflets egg-shaped, covered with numerous glands. Fruits in dense clews. Pods twisted, curved, with small glanded thorns. Associated plants *Festuca pseudovina* and *Stipa capillata*. Wild. Seed.

PI 562036 to 562044. *Elymus lanceolatus* (Scribner & J. G. Smith) Gould subsp. *lanceolatus* POACEAE

Donated by: Jones, T.A., Agricultural Research Service -- USDA, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received August 28, 1992.

PI 562036 **donor id:** ACC:312. **origin:** United States. **collected:** August 22, 1980. **collector:** Kay H. Asay, Kevin B. Jensen. **collector id:** ACC:312. **other id:** W6 10174. **group:** W6. **locality:** 15m W Farson, Sweetwater County. Perennial. Wild. Seed.

PI 562037 **donor id:** ACC:512. **origin:** United States. **collected:** July 16, 1975. **collector:** Kay H. Asay. **collector id:** ACC:512. **other id:** W6 10175. **group:** W6. **locality:** W of Blackfoot on Rt. 26, Bingham County. Perennial. Wild. Seed.

PI 562038 **donor id:** ACC:519. **origin:** United States. **collected:** July 21, 1975. **collector:** Kay H. Asay. **collector id:** ACC:519. **other id:** W6 10176. **group:** W6. **locality:** Decker Coal Corp., Bighorn County. Perennial. Cultivated. Seed.

PI 562036 to 562044-continued

- PI 562039 **donor id:** ACC:521. **origin:** United States. **collected:** July 13, 1975. **collector:** Kay H. Asay. **collector id:** ACC:521. **other id:** W6 10177. **group:** W6. **locality:** Amax Coal Corp., Gillette, Campbell County. Perennial. Cultivated. Seed.
- PI 562040 **donor id:** ACC:522. **origin:** United States. **collected:** July 16, 1975. **collector:** Kay H. Asay. **collector id:** ACC:522. **other id:** W6 10178. **group:** W6. **locality:** Amax Coal Corp., Gillette, Campbell County. Perennial. Cultivated. Seed.
- PI 562041 **donor id:** ACC:526. **origin:** United States. **collected:** July 16, 1975. **collector:** Kay H. Asay. **collector id:** ACC:526. **other id:** W6 10179. **group:** W6. **locality:** FMC Corp., Kemmerer, Lincoln County. Perennial. Cultivated. Seed.
- PI 562042 **donor id:** ACC:531. **origin:** United States. **collected:** July 16, 1975. **collector:** Kay H. Asay. **collector id:** ACC:531. **other id:** W6 10180. **group:** W6. **locality:** 5m W Soda Springs, Caribou County. Perennial. Wild. Seed.
- PI 562043 **donor id:** ACC:540. **origin:** United States. **collected:** July 18, 1975. **collector:** Kay H. Asay. **collector id:** ACC:540. **other id:** W6 10181. **group:** W6. **locality:** W Salina Canyon, Sevier County. Perennial. Wild. Seed.
- PI 562044 **donor id:** ACC:690. **origin:** United States. **collected:** July 26, 1975. **collector:** Kay H. Asay. **collector id:** ACC:690. **other id:** W6 10182. **group:** W6. **locality:** N Kemmerer on Rt. 33, Lincoln County. Perennial. Wild. Seed.

PI 562045 to 562048. *Leymus cinereus* (Scribner & Merr.) A. Love
POACEAE Basin wild rye

Donated by: Jones, T.A., Agricultural Research Service -- USDA,
Forage and Range Research, Utah State University, Logan, Utah
84322-6300, United States. Received August 28, 1992.

- PI 562045 **donor id:** ACC:386. **origin:** United States. **collected:** August 29, 1980. **collector:** Kevin B. Jensen, Bruce Mumford. **collector id:** ACC:386. **other id:** W6 10183. **group:** W6. **locality:** 4m NE Soda Springs, Caribou County. Perennial. Wild. Seed.
- PI 562046 **donor id:** ACC:397. **origin:** United States. **collected:** August 27, 1975. **collector:** Kay H. Asay. **collector id:** ACC:397. **other id:** W6 10184. **group:** W6. **locality:** 2m W Battle Mountain, Lander County. Perennial. Wild. Seed.

PI 562045 to 562048-continued

- PI 562047 **donor id:** ACC:398. **origin:** United States. **collected:** August 27, 1975. **collector:** Kay H. Asay. **collector id:** ACC:398. **other id:** W6 10185. **group:** W6. **locality:** 1m W Mote, Humboldt County. Perennial. Wild. Seed.
- PI 562048 **donor id:** T-14. **origin:** United States. **collected:** July 16, 1986. **collector:** Thomas A. Jones, Kay H. Asay, Dale C. Nielson. **collector id:** T-14. **other id:** W6 10186. **group:** W6. **locality:** Wawawai Park, Whitman County. Perennial. Wild. Seed.

PI 562049 to 562064. *Pseudoroegneria spicata* (Pursh) A. Love POACEAE
Bluebunch wheatgrass

Donated by: Jones, T.A., Agricultural Research Service -- USDA, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received August 28, 1992.

- PI 562049 **donor id:** ACC:223. **origin:** United States. **collected:** August 06, 1980. **collector:** Kay H. Asay. **collector id:** ACC:223. **other id:** W6 10187. **group:** W6. **locality:** Wawawai Park, Whitman County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562050 **donor id:** ACC:224. **origin:** United States. **collected:** August 06, 1980. **collector:** Kay H. Asay. **collector id:** ACC:224. **other id:** W6 10188. **group:** W6. **locality:** 5m W Wawawai Park, Whitman County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562051 **donor id:** ACC:226. **origin:** United States. **collected:** August 06, 1980. **collector:** Kay H. Asay. **collector id:** ACC:226. **other id:** W6 10189. **group:** W6. **locality:** Hwy 26, N of Snake River, Whitman County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562052 **donor id:** ACC:228. **origin:** United States. **collected:** August 06, 1980. **collector:** Kay H. Asay. **collector id:** ACC:228. **other id:** W6 10190. **group:** W6. **locality:** 15m N Dayton, Columbia County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562053 **donor id:** ACC:232. **origin:** United States. **collected:** August 07, 1980. **collector:** Kay H. Asay. **collector id:** ACC:232. **other id:** W6 10191. **group:** W6. **locality:** 2m E Starbuck, Columbia County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.

- PI 562054 **donor id:** ACC:234. **origin:** United States. **collected:** August 07, 1980. **collector:** Kay H. Asay. **collector id:** ACC:234. **other id:** W6 10192. **group:** W6. **locality:** Near Lyons Ferry St. Park, Whitman County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562055 **donor id:** ACC:236. **origin:** United States. **collected:** August 07, 1980. **collector:** Kay H. Asay. **collector id:** ACC:236. **other id:** W6 10193. **group:** W6. **locality:** 2m W Kahlotus, Franklin County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562056 **donor id:** ACC:238. **origin:** United States. **collected:** August 07, 1980. **collector:** Kay H. Asay. **collector id:** ACC:238. **other id:** W6 10194. **group:** W6. **locality:** 21m N Connell, Adams County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562057 **donor id:** ACC:239. **origin:** United States. **collected:** August 07, 1980. **collector:** Kay H. Asay. **collector id:** ACC:239. **other id:** W6 10195. **group:** W6. **locality:** 3m S Wallula, Walla Walla County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562058 **donor id:** ACC:241. **origin:** United States. **collected:** August 07, 1980. **collector:** Kay H. Asay. **collector id:** ACC:241. **other id:** W6 10196. **group:** W6. **locality:** Hwy 395, 5m S OR/WA line, Umatilla County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562059 **donor id:** ACC:243. **origin:** United States. **collected:** August 18, 1980. **collector:** Kay H. Asay, Kevin B. Jensen. **collector id:** ACC:243. **other id:** W6 10197. **group:** W6. **locality:** 8m W Garland, Box Elder County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562060 **donor id:** ACC:249. **origin:** United States. **collected:** August 20, 1980. **collector:** Kay H. Asay, Kevin B. Jensen. **collector id:** ACC:249. **other id:** W6 10198. **group:** W6. **locality:** 10m E Livingston, Park County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562061 **donor id:** ACC:250. **origin:** United States. **collected:** August 22, 1980. **collector:** Kay H. Asay, Kevin B. Jensen. **collector id:** ACC:250. **other id:** W6 10199. **group:** W6. **locality:** 6m E Hiden, Fremont County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.

PI 562049 to 562064-continued

- PI 562062 **donor id:** ACC:252. **origin:** United States. **collected:** September 04, 1980. **collector:** Kay H. Asay, Arthur H. Holmgren. **collector id:** ACC:252. **other id:** W6 10200. **group:** W6. **locality:** 40m S Wells, Elko County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562063 **donor id:** ACC:253. **origin:** United States. **collected:** August 22, 1980. **collector:** Kay H. Asay. **collector id:** ACC:253. **other id:** W6 10201. **group:** W6. **locality:** 5m N Meeteetse, Park County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.
- PI 562064 **donor id:** T-458. **origin:** United States. **collected:** August 04, 1987. **collector:** Thomas A. Jones, Kevin B. Jensen. **collector id:** T-458. **other id:** W6 10202. **group:** W6. **locality:** 9m W Poudre Park, Larimer County. **received as:** *Pseudoroegneria spicata*. Perennial. Wild. Seed.

PI 562065 to 562087. *Sorghum bicolor* (L.) Moench POACEAE *Sorghum*

Donated by: Guarino, L., IBPGR, Agricultural Research Institute, Min. of Agric. & Nat. Resources, P.O. Box 2016, Nicosia, Cyprus.
remarks: Received through IBPGR-Sponsored Joint Crop Germplasm Collection Between IRAZ and INERA. Inspected under BE 4079.
Received May 05, 1992.

- PI 562065 **donor id:** GMN 10. **origin:** Burundi. **collector id:** GMN 10. Cultivated. Seed.
- PI 562066 **donor id:** GMN 15. **origin:** Burundi. **collector id:** GMN 15. Cultivated. Seed.
- PI 562067 **donor id:** GMN 103. **origin:** Burundi. **collector id:** GMN 103. Cultivated. Seed.
- PI 562068 **donor id:** GMN 110. **origin:** Burundi. **collector id:** GMN 110. Cultivated. Seed.
- PI 562069 **donor id:** GMN 151. **origin:** Burundi. **collector id:** GMN 151. Cultivated. Seed.
- PI 562070 **donor id:** GMN 163. **origin:** Burundi. **collector id:** GMN 163. Cultivated. Seed.
- PI 562071 **donor id:** GMN 169. **origin:** Burundi. **collector id:** GMN 169. Cultivated. Seed.
- PI 562072 **donor id:** GMN 171. **origin:** Burundi. **collector id:** GMN 171. Cultivated. Seed.

PI 562065 to 562087-continued

PI 562073	donor id: GMN 181.	origin: Burundi.	collector id: GMN 181.
	Cultivated.	Seed.	
PI 562074	donor id: GMN 185.	origin: Burundi.	collector id: GMN 185.
	Cultivated.	Seed.	
PI 562075	donor id: GMN 197.	origin: Burundi.	collector id: GMN 197.
	Cultivated.	Seed.	
PI 562076	donor id: GMN 200.	origin: Burundi.	collector id: GMN 200.
	Cultivated.	Seed.	
PI 562077	donor id: GMN 213.	origin: Burundi.	collector id: GMN 213.
	Cultivated.	Seed.	
PI 562078	donor id: GMN 244.	origin: Burundi.	collector id: GMN 244.
	Cultivated.	Seed.	
PI 562079	donor id: GMN 250.	origin: Burundi.	collector id: GMN 250.
	Cultivated.	Seed.	
PI 562080	donor id: GMN 271.	origin: Burundi.	collector id: GMN 271.
	Cultivated.	Seed.	
PI 562081	donor id: GMN 272.	origin: Burundi.	collector id: GMN 272.
	Cultivated.	Seed.	
PI 562082	donor id: GMN 273.	origin: Burundi.	collector id: GMN 273.
	Cultivated.	Seed.	
PI 562083	donor id: GMN 274.	origin: Burundi.	collector id: GMN 274.
	Cultivated.	Seed.	
PI 562084	donor id: GMN 276.	origin: Burundi.	collector id: GMN 276.
	Cultivated.	Seed.	
PI 562085	donor id: GMN 277.	origin: Burundi.	collector id: GMN 277.
	Cultivated.	Seed.	
PI 562086	donor id: GMN 289.	origin: Burundi.	collector id: GMN 289.
	Cultivated.	Seed.	
PI 562087	donor id: GMN 307.	origin: Burundi.	collector id: GMN 307.
	Cultivated.	Seed.	

PI 562088 to 562141. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Guarino, L., IBPGR, Agricultural Research Institute,
Min. of Agric. & Nat. Resources, P.O. Box 2016, Nicosia, Cyprus.
remarks: Received through IBPGR-Sponsored Joint Crop Germplasm
Collection Between IRAZ and INERA. Inspected under BE 4079.
Received May 05, 1992.

PI 562088	donor id: GMN 4.	origin: Burundi.	collector id: GMN 4.
	Annual.	Cultivated.	Seed.
PI 562089	donor id: GMN 5.	origin: Burundi.	collector id: GMN 5.
	Annual.	Cultivated.	Seed.
PI 562090	donor id: GMN 11.	origin: Burundi.	collector id: GMN 11.
	Annual.	Cultivated.	Seed.
PI 562091	donor id: GMN 12.	origin: Burundi.	collector id: GMN 12.
	Annual.	Cultivated.	Seed.
PI 562092	donor id: GMN 13.	origin: Burundi.	collector id: GMN 13.
	Annual.	Cultivated.	Seed.
PI 562093	donor id: GMN 14.	origin: Burundi.	collector id: GMN 14.
	Annual.	Cultivated.	Seed.
PI 562094	donor id: GMN 18.	origin: Burundi.	collector id: GMN 18.
	Annual.	Cultivated.	Seed.
PI 562095	donor id: GMN 70.	origin: Burundi.	collector id: GMN 70.
	Annual.	Cultivated.	Seed.
PI 562096	donor id: GMN 71.	origin: Burundi.	collector id: GMN 71.
	Annual.	Cultivated.	Seed.
PI 562097	donor id: GMN 72.	origin: Burundi.	collector id: GMN 72.
	Annual.	Cultivated.	Seed.
PI 562098	donor id: GMN 73.	origin: Burundi.	collector id: GMN 73.
	Annual.	Cultivated.	Seed.
PI 562099	donor id: GMN 74.	origin: Burundi.	collector id: GMN 74.
	Annual.	Cultivated.	Seed.
PI 562100	donor id: GMN 75.	origin: Burundi.	collector id: GMN 75.
	Annual.	Cultivated.	Seed.
PI 562101	donor id: GMN 78.	origin: Burundi.	collector id: GMN 78.
	Annual.	Cultivated.	Seed.
PI 562102	donor id: GMN 89.	origin: Burundi.	collector id: GMN 89.
	Annual.	Cultivated.	Seed.

PI 562088 to 562141-continued

PI 562103	donor id: GMN 92.	origin: Burundi.	collector id: GMN 92.
	Annual.	Cultivated.	Seed.
PI 562104	donor id: GMN 97.	origin: Burundi.	collector id: GMN 97.
	Annual.	Cultivated.	Seed.
PI 562105	donor id: GMN 100.	origin: Burundi.	collector id: GMN 100.
	Annual.	Cultivated.	Seed.
PI 562106	donor id: GMN 104.	origin: Burundi.	collector id: GMN 104.
	Annual.	Cultivated.	Seed.
PI 562107	donor id: GMN 105.	origin: Burundi.	collector id: GMN 105.
	Annual.	Cultivated.	Seed.
PI 562108	donor id: GMN 109.	origin: Burundi.	collector id: GMN 109.
	Annual.	Cultivated.	Seed.
PI 562109	donor id: GMN 111.	origin: Burundi.	collector id: GMN 111.
	Annual.	Cultivated.	Seed.
PI 562110	donor id: GMN 114.	origin: Burundi.	collector id: GMN 114.
	Annual.	Cultivated.	Seed.
PI 562111	donor id: GMN 119.	origin: Burundi.	collector id: GMN 119.
	Annual.	Cultivated.	Seed.
PI 562112	donor id: GMN 120.	origin: Burundi.	collector id: GMN 120.
	Annual.	Cultivated.	Seed.
PI 562113	donor id: GMN 132.	origin: Burundi.	collector id: GMN 132.
	Annual.	Cultivated.	Seed.
PI 562114	donor id: GMN 135.	origin: Burundi.	collector id: GMN 135.
	Annual.	Cultivated.	Seed.
PI 562115	donor id: GMN 140.	origin: Burundi.	collector id: GMN 140.
	Annual.	Cultivated.	Seed.
PI 562116	donor id: GMN 142.	origin: Burundi.	collector id: GMN 142.
	Annual.	Cultivated.	Seed.
PI 562117	donor id: GMN 145.	origin: Burundi.	collector id: GMN 145.
	Annual.	Cultivated.	Seed.
PI 562118	donor id: GMN 146.	origin: Burundi.	collector id: GMN 146.
	Annual.	Cultivated.	Seed.
PI 562119	donor id: GMN 149.	origin: Burundi.	collector id: GMN 149.
	Annual.	Cultivated.	Seed.

PI 562088 to 562141-continued

PI 562120	donor id: GMN 154.	origin: Burundi.	collector id: GMN 154.
	Annual.	Cultivated.	Seed.
PI 562121	donor id: GMN 157.	origin: Burundi.	collector id: GMN 157.
	Annual.	Cultivated.	Seed.
PI 562122	donor id: GMN 162.	origin: Burundi.	collector id: GMN 162.
	Annual.	Cultivated.	Seed.
PI 562123	donor id: GMN 177.	origin: Burundi.	collector id: GMN 177.
	Annual.	Cultivated.	Seed.
PI 562124	donor id: GMN 179.	origin: Burundi.	collector id: GMN 179.
	Annual.	Cultivated.	Seed.
PI 562125	donor id: GMN 182.	origin: Burundi.	collector id: GMN 182.
	Annual.	Cultivated.	Seed.
PI 562126	donor id: GMN 189.	origin: Burundi.	collector id: GMN 189.
	Annual.	Cultivated.	Seed.
PI 562127	donor id: GMN 202.	origin: Burundi.	collector id: GMN 202.
	Annual.	Cultivated.	Seed.
PI 562128	donor id: GMN 212.	origin: Burundi.	collector id: GMN 212.
	Annual.	Cultivated.	Seed.
PI 562129	donor id: GMN 221.	origin: Burundi.	collector id: GMN 221.
	Annual.	Cultivated.	Seed.
PI 562130	donor id: GMN 231.	origin: Burundi.	collector id: GMN 231.
	Annual.	Cultivated.	Seed.
PI 562131	donor id: GMN 233.	origin: Burundi.	collector id: GMN 233.
	Annual.	Cultivated.	Seed.
PI 562132	donor id: GMN 234.	origin: Burundi.	collector id: GMN 234.
	Annual.	Cultivated.	Seed.
PI 562133	donor id: GMN 242.	origin: Burundi.	collector id: GMN 242.
	Annual.	Cultivated.	Seed.
PI 562134	donor id: GMN 248.	origin: Burundi.	collector id: GMN 248.
	Annual.	Cultivated.	Seed.
PI 562135	donor id: GMN 254.	origin: Burundi.	collector id: GMN 254.
	Annual.	Cultivated.	Seed.
PI 562136	donor id: GMN 260.	origin: Burundi.	collector id: GMN 260.
	Annual.	Cultivated.	Seed.

PI 562088 to 562141-continued

PI 562137 **donor id:** GMN 283. **origin:** Burundi. **collector id:** GMN 283. Annual. Cultivated. Seed.

PI 562138 **donor id:** GMN 284. **origin:** Burundi. **collector id:** GMN 284. Annual. Cultivated. Seed.

PI 562139 **donor id:** GMN 290. **origin:** Burundi. **collector id:** GMN 290. Annual. Cultivated. Seed.

PI 562140 **donor id:** GMN 306. **origin:** Burundi. **collector id:** GMN 306. Annual. Cultivated. Seed.

PI 562141 **donor id:** GMN 313. **origin:** Burundi. **collector id:** GMN 313. Annual. Cultivated. Seed.

PI 562142. *Lespedeza cuneata* (Dum.-Cours.) G. Don FABACEAE *Sericea lespedeza*

Donated by: Mosjidis, J.A., Alabama Agr. Exp. Sta., Dept. of Agronomy, 201 Funchess Hall, Auburn, Alabama 36849-5412, United States. Received November 05, 1992.

origin: United States. **developed:** E.D. Donnelly. **origin institute:** Alabama Agr. Exp. Sta., Auburn University, Auburn, Alabama United States. **cultivar:** INTERSTATE. **pedigree:** Cleistogamous dormant seed of Alabama inbred line 1373 were treated with ionizing radiation. Pureline breeding followed to X6. **other id:** CV-6. **source:** Crop Sci. 11(4):601 1971. **group:** CSR-LESPEDEZA. **remarks:** Developed to meet growth requirements on highway rights of way and similar conservation uses. Perennial. Cultivar. Seed.

PI 562143. *Heteropogon contortus* (L.) P. Beauv. ex Roemer & Schultes POACEAE Tanglehead

Donated by: Pater, M.J., Soil Conservation Service -- USDA, Tucson Plant Materials Center, Tucson, Arizona 85705-9223, United States; and Arizona Agr. Exp. Sta.. **remarks:** Rocker Tanglehead. Received September 10, 1992.

origin: United States. **developed:** M.J. Pater. **origin institute:** Soil Conservation Service -- USDA, Tucson Plant Materials Center, 3241 N. Romero Rd., Tucson, Arizona 85705 United States. **cultivar:** ROCKER. **other id:** 9043377. **other id:** T43377. **other id:** CV-156. **group:** CSR-OTHER GRASSES. **restricted:** CSR. **remarks:** Plant size 120cm by 120cm. Flowers and sets seed from late September through early November. Seed length averages 7mm, with a stiffly-hispid callus attached at the base. Exhibited ability to produce an abundance of green herbage despite well below average summer precipitation. Primarily used for controlling rill and gully erosion. Perennial. Cultivar. Seed.

PI 562144 to 562150. *Sorghum bicolor* (L.) Moench POACEAE

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

PI 562144 **origin:** Sudan. **cultivar:** MERESSE. **other id:** MN 1169. **group:** MN. Cultivar. Seed.

PI 562145 **origin:** Sudan. **cultivar:** KOKO. **other id:** MN 1284. **group:** MN. Cultivar. Seed.

PI 562146 **origin:** Liberia. **other id:** MN 2578. **group:** MN. Seed.

PI 562147 **origin:** Argentina. **other id:** MN 3152. **group:** MN. Seed.

PI 562148 **origin:** Portugal. **other id:** MN 3153. **group:** MN. Seed.

PI 562149 **origin:** Portugal. **other id:** MN 3998. **group:** MN. Seed.

PI 562150 **origin:** Portugal. **other id:** MN 4001. **group:** MN. Seed.

PI 562151 to 562343. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: Anishetty, N.M., IBPGR thru FAO of U.N., Viale Delle Terme Di Caracalla, Rome, Italy. Received 1980.

PI 562151 **origin:** Sudan. **other id:** FAO 54912. **group:** FAO. Seed.

PI 562152 **origin:** Sudan. **other id:** FAO 54913. **group:** FAO. Seed.

PI 562153 **origin:** Sudan. **other id:** FAO 54914. **group:** FAO. Seed.

PI 562154 **origin:** Sudan. **other id:** FAO 54915. **group:** FAO. Seed.

PI 562155 **origin:** Sudan. **other id:** FAO 54916. **group:** FAO. Seed.

PI 562151 to 562343-continued

PI 562156	origin: Sudan.	other id: FAO 54917.	group: FAO.	Seed.
PI 562157	origin: Sudan.	other id: FAO 54918.	group: FAO.	Seed.
PI 562158	origin: Sudan.	other id: FAO 54919.	group: FAO.	Seed.
PI 562159	origin: Sudan.	other id: FAO 54920.	group: FAO.	Seed.
PI 562160	origin: Sudan.	other id: FAO 54924.	group: FAO.	Seed.
PI 562161	origin: Sudan.	other id: FAO 54925.	group: FAO.	Seed.
PI 562162	origin: Sudan.	other id: FAO 54926.	group: FAO.	Seed.
PI 562163	origin: Sudan.	other id: FAO 54927.	group: FAO.	Seed.
PI 562164	origin: Sudan.	other id: FAO 54928.	group: FAO.	Seed.
PI 562165	origin: Sudan.	other id: FAO 54929.	group: FAO.	Seed.
PI 562166	origin: Sudan.	other id: FAO 54930.	group: FAO.	Seed.
PI 562167	origin: Sudan.	other id: FAO 54931.	group: FAO.	Seed.
PI 562168	origin: Sudan.	other id: FAO 54932.	group: FAO.	Seed.
PI 562169	origin: Sudan.	other id: FAO 54933.	group: FAO.	Seed.
PI 562170	origin: Sudan.	other id: FAO 54934.	group: FAO.	Seed.
PI 562171	origin: Sudan.	other id: FAO 54935.	group: FAO.	Seed.
PI 562172	origin: Sudan.	other id: FAO 54936.	group: FAO.	Seed.
PI 562173	origin: Sudan.	other id: FAO 54937.	group: FAO.	Seed.
PI 562174	origin: Sudan.	other id: FAO 54938.	group: FAO.	Seed.
PI 562175	origin: Sudan.	other id: FAO 54939.	group: FAO.	Seed.
PI 562176	origin: Sudan.	other id: FAO 54940.	group: FAO.	Seed.
PI 562177	origin: Sudan.	other id: FAO 54941.	group: FAO.	Seed.
PI 562178	origin: Sudan.	other id: FAO 54942.	group: FAO.	Seed.
PI 562179	origin: Sudan.	other id: FAO 54943.	group: FAO.	Seed.
PI 562180	origin: Sudan.	other id: FAO 54944.	group: FAO.	Seed.
PI 562181	origin: Sudan.	other id: FAO 54945.	group: FAO.	Seed.

PI 562151 to 562343-continued

PI 562182	origin: Sudan.	other id: FAO 54946.	group: FAO.	Seed.
PI 562183	origin: Sudan.	other id: FAO 54947.	group: FAO.	Seed.
PI 562184	origin: Sudan.	other id: FAO 54948.	group: FAO.	Seed.
PI 562185	origin: Sudan.	other id: FAO 54949.	group: FAO.	Seed.
PI 562186	origin: Sudan.	other id: FAO 54950.	group: FAO.	Seed.
PI 562187	origin: Sudan.	other id: FAO 54951.	group: FAO.	Seed.
PI 562188	origin: Sudan.	other id: FAO 54953.	group: FAO.	Seed.
PI 562189	origin: Sudan.	other id: FAO 54954.	group: FAO.	Seed.
PI 562190	origin: Sudan.	other id: FAO 54955.	group: FAO.	Seed.
PI 562191	origin: Sudan.	other id: FAO 54956.	group: FAO.	Seed.
PI 562192	origin: Sudan.	other id: FAO 54957.	group: FAO.	Seed.
PI 562193	origin: Sudan.	other id: FAO 54958.	group: FAO.	Seed.
PI 562194	origin: Sudan.	other id: FAO 54959.	group: FAO.	Seed.
PI 562195	origin: Sudan.	other id: FAO 54960.	group: FAO.	Seed.
PI 562196	origin: Sudan.	other id: FAO 54961.	group: FAO.	Seed.
PI 562197	origin: Sudan.	other id: FAO 54962.	group: FAO.	Seed.
PI 562198	origin: Sudan.	other id: FAO 54963.	group: FAO.	Seed.
PI 562199	origin: Sudan.	other id: FAO 54964.	group: FAO.	Seed.
PI 562200	origin: Sudan.	other id: FAO 54965.	group: FAO.	Seed.
PI 562201	origin: Sudan.	other id: FAO 54966.	group: FAO.	Seed.
PI 562202	origin: Sudan.	other id: FAO 54968.	group: FAO.	Seed.
PI 562203	origin: Sudan.	other id: FAO 54969.	group: FAO.	Seed.
PI 562204	origin: Sudan.	other id: FAO 54971.	group: FAO.	Seed.
PI 562205	origin: Sudan.	other id: FAO 54972.	group: FAO.	Seed.
PI 562206	origin: Sudan.	other id: FAO 54973.	group: FAO.	Seed.
PI 562207	origin: Sudan.	other id: FAO 54974.	group: FAO.	Seed.

PI 562151 to 562343-continued

PI 562208	origin: Sudan.	other id: FAO 54975.	group: FAO.	Seed.
PI 562209	origin: Sudan.	other id: FAO 54976.	group: FAO.	Seed.
PI 562210	origin: Sudan.	other id: FAO 54977.	group: FAO.	Seed.
PI 562211	origin: Sudan.	other id: FAO 54978.	group: FAO.	Seed.
PI 562212	origin: Sudan.	other id: FAO 54979.	group: FAO.	Seed.
PI 562213	origin: Sudan.	other id: FAO 54983.	group: FAO.	Seed.
PI 562214	origin: Sudan.	other id: FAO 54984.	group: FAO.	Seed.
PI 562215	origin: Sudan.	other id: FAO 54985.	group: FAO.	Seed.
PI 562216	origin: Sudan.	other id: FAO 54989.	group: FAO.	Seed.
PI 562217	origin: Sudan.	other id: FAO 54990.	group: FAO.	Seed.
PI 562218	origin: Sudan.	other id: FAO 54991.	group: FAO.	Seed.
PI 562219	origin: Sudan.	other id: FAO 54992.	group: FAO.	Seed.
PI 562220	origin: Sudan.	other id: FAO 54993.	group: FAO.	Seed.
PI 562221	origin: Sudan.	other id: FAO 54994.	group: FAO.	Seed.
PI 562222	origin: Sudan.	other id: FAO 54995.	group: FAO.	Seed.
PI 562223	origin: Sudan.	other id: FAO 54996.	group: FAO.	Seed.
PI 562224	origin: Sudan.	other id: FAO 54997.	group: FAO.	Seed.
PI 562225	origin: Sudan.	other id: FAO 54998.	group: FAO.	Seed.
PI 562226	origin: Sudan.	other id: FAO 54999.	group: FAO.	Seed.
PI 562227	origin: Sudan.	other id: FAO 55005.	group: FAO.	Seed.
PI 562228	origin: Sudan.	other id: FAO 55006.	group: FAO.	Seed.
PI 562229	origin: Sudan.	other id: FAO 55007.	group: FAO.	Seed.
PI 562230	origin: Sudan.	other id: FAO 55008.	group: FAO.	Seed.
PI 562231	origin: Sudan.	other id: FAO 55010.	group: FAO.	Seed.
PI 562232	origin: Sudan.	other id: FAO 55013.	group: FAO.	Seed.
PI 562233	origin: Sudan.	other id: FAO 55014.	group: FAO.	Seed.

PI 562151 to 562343-continued

PI 562234	origin: Sudan.	other id: FAO 55015.	group: FAO.	Seed.
PI 562235	origin: Sudan.	other id: FAO 55016.	group: FAO.	Seed.
PI 562236	origin: Sudan.	other id: FAO 55017.	group: FAO.	Seed.
PI 562237	origin: Sudan.	other id: FAO 55018.	group: FAO.	Seed.
PI 562238	origin: Sudan.	other id: FAO 55019.	group: FAO.	Seed.
PI 562239	origin: Sudan.	other id: FAO 55021.	group: FAO.	Seed.
PI 562240	origin: Sudan.	other id: FAO 55022.	group: FAO.	Seed.
PI 562241	origin: Sudan.	other id: FAO 55023.	group: FAO.	Seed.
PI 562242	origin: Sudan.	other id: FAO 55024.	group: FAO.	Seed.
PI 562243	origin: Sudan.	other id: FAO 55025.	group: FAO.	Seed.
PI 562244	origin: Sudan.	other id: FAO 55026.	group: FAO.	Seed.
PI 562245	origin: Sudan.	other id: FAO 55027.	group: FAO.	Seed.
PI 562246	origin: Sudan.	other id: FAO 55028.	group: FAO.	Seed.
PI 562247	origin: Sudan.	other id: FAO 55029.	group: FAO.	Seed.
PI 562248	origin: Sudan.	other id: FAO 55030.	group: FAO.	Seed.
PI 562249	origin: Sudan.	other id: FAO 55031.	group: FAO.	Seed.
PI 562250	origin: Sudan.	other id: FAO 55032.	group: FAO.	Seed.
PI 562251	origin: Sudan.	other id: FAO 55033.	group: FAO.	Seed.
PI 562252	origin: Sudan.	other id: FAO 55034.	group: FAO.	Seed.
PI 562253	origin: Sudan.	other id: FAO 55035.	group: FAO.	Seed.
PI 562254	origin: Sudan.	other id: FAO 55036.	group: FAO.	Seed.
PI 562255	origin: Sudan.	other id: FAO 55037.	group: FAO.	Seed.
PI 562256	origin: Sudan.	other id: FAO 55038.	group: FAO.	Seed.
PI 562257	origin: Sudan.	other id: FAO 55039.	group: FAO.	Seed.
PI 562258	origin: Sudan.	other id: FAO 55040.	group: FAO.	Seed.
PI 562259	origin: Sudan.	other id: FAO 55041.	group: FAO.	Seed.

PI 562151 to 562343-continued

PI 562260	origin: Sudan.	other id: FAO 55042.	group: FAO.	Seed.
PI 562261	origin: Sudan.	other id: FAO 55043.	group: FAO.	Seed.
PI 562262	origin: Sudan.	other id: FAO 55044.	group: FAO.	Seed.
PI 562263	origin: Sudan.	other id: FAO 55045.	group: FAO.	Seed.
PI 562264	origin: Sudan.	other id: FAO 55046.	group: FAO.	Seed.
PI 562265	origin: Sudan.	other id: FAO 55047.	group: FAO.	Seed.
PI 562266	origin: Sudan.	other id: FAO 55048.	group: FAO.	Seed.
PI 562267	origin: Sudan.	other id: FAO 55049.	group: FAO.	Seed.
PI 562268	origin: Sudan.	other id: FAO 55050.	group: FAO.	Seed.
PI 562269	origin: Sudan.	other id: FAO 55051.	group: FAO.	Seed.
PI 562270	origin: Sudan.	other id: FAO 55052.	group: FAO.	Seed.
PI 562271	origin: Sudan.	other id: FAO 55053.	group: FAO.	Seed.
PI 562272	origin: Sudan.	other id: FAO 55054.	group: FAO.	Seed.
PI 562273	origin: Sudan.	other id: FAO 55055.	group: FAO.	Seed.
PI 562274	origin: Sudan.	other id: FAO 55056.	group: FAO.	Seed.
PI 562275	origin: Sudan.	other id: FAO 55057.	group: FAO.	Seed.
PI 562276	origin: Sudan.	other id: FAO 55058.	group: FAO.	Seed.
PI 562277	origin: Sudan.	other id: FAO 55059.	group: FAO.	Seed.
PI 562278	origin: Sudan.	other id: FAO 55060.	group: FAO.	Seed.
PI 562279	origin: Sudan.	other id: FAO 55063.	group: FAO.	Seed.
PI 562280	origin: Sudan.	other id: FAO 55064.	group: FAO.	Seed.
PI 562281	origin: Sudan.	other id: FAO 55067.	group: FAO.	Seed.
PI 562282	origin: Sudan.	other id: FAO 55068.	group: FAO.	Seed.
PI 562283	origin: Sudan.	other id: FAO 55069.	group: FAO.	Seed.
PI 562284	origin: Sudan.	other id: FAO 55070.	group: FAO.	Seed.
PI 562285	origin: Sudan.	other id: FAO 55071.	group: FAO.	Seed.

PI 562151 to 562343-continued

PI 562286	origin: Sudan.	other id: FAO 55072.	group: FAO.	Seed.
PI 562287	origin: Sudan.	other id: FAO 55073.	group: FAO.	Seed.
PI 562288	origin: Sudan.	other id: FAO 55074.	group: FAO.	Seed.
PI 562289	origin: Sudan.			Seed.
PI 562290	origin: Sudan.			Seed.
PI 562291	origin: Sudan.			Seed.
PI 562292	origin: Sudan.			Seed.
PI 562293	origin: Sudan.			Seed.
PI 562294	origin: Sudan.			Seed.
PI 562295	origin: Sudan.			Seed.
PI 562296	origin: Sudan.			Seed.
PI 562297	origin: Sudan.			Seed.
PI 562298	origin: Sudan.			Seed.
PI 562299	origin: Sudan.			Seed.
PI 562300	origin: Sudan.			Seed.
PI 562301	origin: Sudan.			Seed.
PI 562302	origin: Sudan.			Seed.
PI 562303	origin: Sudan.			Seed.
PI 562304	origin: Sudan.			Seed.
PI 562305	origin: Sudan.			Seed.
PI 562306	origin: Sudan.			Seed.
PI 562307	origin: Sudan.			Seed.
PI 562308	origin: Sudan.			Seed.
PI 562309	origin: Sudan.			Seed.
PI 562310	origin: Sudan.			Seed.
PI 562311	origin: Sudan.			Seed.

PI 562151 to 562343-continued

PI 562312	origin: Sudan.	Seed.
PI 562313	origin: Sudan.	Seed.
PI 562314	origin: Sudan.	Seed.
PI 562315	origin: Sudan.	Seed.
PI 562316	origin: Sudan.	Seed.
PI 562317	origin: Sudan.	Seed.
PI 562318	origin: Sudan.	Seed.
PI 562319	origin: Sudan.	Seed.
PI 562320	origin: Sudan.	Seed.
PI 562321	origin: Sudan.	Seed.
PI 562322	origin: Sudan.	Seed.
PI 562323	origin: Sudan.	Seed.
PI 562324	origin: Sudan.	Seed.
PI 562325	origin: Sudan.	Seed.
PI 562326	origin: Sudan.	Seed.
PI 562327	origin: Sudan.	Seed.
PI 562328	origin: Sudan.	Seed.
PI 562329	origin: Sudan.	Seed.
PI 562330	origin: Sudan.	Seed.
PI 562331	origin: Sudan.	Seed.
PI 562332	origin: Sudan.	Seed.
PI 562333	origin: Sudan.	Seed.
PI 562334	origin: Sudan.	Seed.
PI 562335	origin: Sudan.	Seed.
PI 562336	origin: Sudan.	Seed.
PI 562337	origin: Sudan.	Seed.

PI 562151 to 562343-continued

PI 562338 **origin:** Sudan. Seed.

PI 562339 **origin:** Sudan. Seed.

PI 562340 **origin:** Sudan. Seed.

PI 562341 **origin:** Sudan. Seed.

PI 562342 **origin:** Sudan. Seed.

PI 562343 **origin:** Sudan. Seed.

PI 562344 to 562348. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: FAO of U.N., Rome, Italy. Received 1990.

PI 562344 **donor id:** VIR-24. **origin:** Ukraine. **other id:** BE-2495. Cultivated. Seed.

PI 562345 **donor id:** VIR-2946. **origin:** Nigeria. **local name:** Yan Bwan Rum. **other id:** BE-2495. Cultivated. Seed.

PI 562346 **donor id:** VIR 4882. **origin:** United States. **origin institute id:** E 1102. **other id:** BE-2495. **received as:** *S. caffrorum*. Cultivated. Seed.

PI 562347 **donor id:** VIR-5049. **origin:** Sudan. **other id:** BE-2495. **received as:** *S. durra*. Cultivated. Seed.

PI 562348 **donor id:** VIR-9484. **origin:** USSR. **other id:** BE-2495. Cultivated. Seed.

PI 562349 to 562357. *Zea mays* L. POACEAE

Donated by: FAO of U.N., Rome, Italy. Received 1990.

PI 562349 **donor id:** VIR-10734. **origin:** Belarus. **other id:** BE-2495. Cultivated. Seed.

PI 562350 **donor id:** VIR-10739. **origin:** Belarus. **other id:** BE-2495. **remarks:** Local type. Cultivated. Seed.

PI 562351 **donor id:** VIR-11518. **origin:** Ukraine. **other id:** BE-2495. **locality:** Transcarpathian Region. **remarks:** Local type. Cultivated. Seed.

PI 562352 **donor id:** VIR-11973. **origin:** Ukraine. **cultivar:** SKOROSPELKA. **other id:** BE-2495. **locality:** Odessa Region. Cultivar. Seed.

PI 562349 to 562357-continued

- PI 562353 donor id: VIR-2749. origin: Russian Federation. other id: BE-2495. locality: Far East. remarks: Local type. Cultivated. Seed.
- PI 562354 donor id: VIR-2796. origin: USSR. cultivar: MAKAK-DZUGARA. other id: BE-2495. Cultivar. Seed.
- PI 562355 donor id: VIR-580. origin: Moldova, Republic of. other id: BE-2495. other id: K-92. remarks: Local type. Cultivated. Seed.
- PI 562356 donor id: VIR-9296. origin: Russian Federation. other id: BE-2495. locality: North Caucasus. remarks: Local type. Cultivated. Seed.
- PI 562357 donor id: VIR-952. origin: Moldova, Republic of. other id: BE-2495. other id: K-159. remarks: Local type. Cultivated. Seed.

PI 562358. Sorghum hybrid POACEAE

Donated by: Anishetty, N.M., IBPGR thru FAO of U.N., Viale Delle Terme Di Caracalla, Rome, Italy. Received 1982.

origin: Togo. cultivar: KAZINZINGA. pedigree: DURRA X CAUDATUM. Cultivar. Seed.

PI 562359 to 562365. Sorghum sp. POACEAE

Donated by: Anishetty, N.M., IBPGR thru FAO of U.N., Viale Delle Terme Di Caracalla, Rome, Italy. Received 1982.

- PI 562359 origin: UNKNOWN. Seed.
- PI 562360 origin: UNKNOWN. Seed.
- PI 562361 origin: UNKNOWN. Seed.
- PI 562362 origin: UNKNOWN. Seed.
- PI 562363 origin: UNKNOWN. Seed.
- PI 562364 origin: UNKNOWN. Seed.
- PI 562365 origin: UNKNOWN. Seed.

PI 562366 to 562370. Sorghum sp. POACEAE

Donated by: Anishetty, N.M., IBPGR thru FAO of U.N., Viale Delle Terme Di Caracalla, Rome, Italy. Received 1978.

PI 562366 **origin:** Kenya. Seed.

PI 562367 **origin:** Kenya. Seed.

PI 562368 **origin:** Kenya. Seed.

PI 562369 **origin:** Kenya. Seed.

PI 562370 **origin:** Kenya. Seed.

PI 562371. Sorghum sp. POACEAE

Donated by: FAO of U.N., Rome, Italy. Received 1988.

origin: Gambia. **cultivar:** RC-034. Cultivar. Seed.

PI 562372. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Minnesota Agr. Exp. Sta., Minnesota, United States. Received September 09, 1992.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., Minnesota United States. **cultivar:** Agassiz. **other id:** PVP 9200242. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562373. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Minnesota Agr. Exp. Sta., Minnesota, United States. Received September 09, 1992.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., Minnesota United States. **cultivar:** Lambert. **other id:** PVP 9200243. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562374. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Minnesota Agr. Exp. Sta., Minnesota, United States. Received September 09, 1992.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta., Minnesota United States. **cultivar:** Parker. **other id:** PVP 9200244. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562375. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: AgraTech Seeds Inc., United States. Received September 09, 1992.

origin: United States. **origin institute:** AgraTech Seeds Inc. United States. **cultivar:** AT 550. **other id:** PVP 9200245. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562376. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: AgraTech Seeds Inc., United States. Received September 09, 1992.

origin: United States. **origin institute:** AgraTech Seeds Inc. United States. **cultivar:** AT 575. **other id:** PVP 9200246. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562377. Zea mays L. subsp. mays POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States. Received September 09, 1992.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc. United States. **cultivar:** LH159. **other id:** PVP 9200247. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562378. Zea mays L. subsp. mays POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States. Received September 09, 1992.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc. United States. **cultivar:** LH165. **other id:** PVP 9200248. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562379. Zea mays L. subsp. mays POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States. Received September 09, 1992.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc. United States. **cultivar:** LH172. **other id:** PVP 9200249. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562380. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received September 09, 1992.

origin: United States. **origin institute:** Holden's
Foundation Seeds, Inc. United States. **cultivar:** LH223.
other id: PVP 9200250. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562381. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received September 09, 1992.

origin: United States. **origin institute:** Holden's
Foundation Seeds, Inc. United States. **cultivar:** LH224.
other id: PVP 9200251. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562382. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Ohio State University, Ohio Agr. Res. & Dev. Center,
Ohio, United States. Received September 09, 1992.

origin: United States. **origin institute:** Ohio State
University, Ohio Agr. Res. & Dev. Center, Ohio United
States. **cultivar:** FREEDOM. **other id:** PVP 9200253.
source: Pending. **group:** PVPO. **patent:** PVPO. Cultivar.
Seed.

PI 562383. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Ohio State University, Ohio Agr. Res. & Dev. Center,
Ohio, United States. Received September 09, 1992.

origin: United States. **origin institute:** Ohio State
University, Ohio Agr. Res. & Dev. Center, Ohio United
States. **cultivar:** GR915. **other id:** PVP 9200254.
source: Pending. **group:** PVPO. **patent:** PVPO. Cultivar.
Seed.

PI 562384. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Frank Garcia, Jr., United States. Received September
09, 1992.

PI 562384-continued

origin: United States. **origin institute:** Frank Garcia, Jr. United States. **cultivar:** RED SAVINA HABANERO.
other id: PVP 9200255. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562385. *Agrostis stolonifera* var. *palustris* (Hudson) Farw. POACEAE
Creeping bentgrass

Donated by: Lofts Seeds, Inc., United States. Received September 09, 1992.

origin: United States. **origin institute:** Lofts Seed, Inc. United States. **cultivar:** SOUTHSORE. **other id:** PVP 9200256. **source:** Pending. **group:** PVPO. **patent:** PVPO. **received as:** *Agrostis palustris*. Cultivar. Seed.

PI 562386. *Limnanthes hybrid* LIMNANTHACEAE Meadowfoam

Donated by: Oregon State Univ. Agr. Exp. Sta., Oregon, United States. Received September 09, 1992.

origin: United States. **origin institute:** Oregon State Univ. Agr. Exp. Sta., Oregon United States. **cultivar:** FLORAL. **pedigree:** *Limnanthes floccosa*/*Limnanthes alba*.
other id: PVP 9200257. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562387. *Glycine soja* Siebold & Zucc. FABACEAE Wild soybean

Donated by: Palmer, R., Agricultural Research Service -- USDA, Department of Agronomy, Iowa State University, Ames, Iowa 50011, United States. Received September 15, 1992.

origin: Taiwan. **locality:** Shui Ho. **remarks:** Flowers white. Wild. Seed.

PI 562388 to 562408. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Guarino, L., IBPGR, Agricultural Research Institute, Min. of Agric. & Nat. Resources, P.O. Box 2016, Nicosia, Cyprus.
remarks: Received through IBPGR-Sponsored Collection in Saudi Arabia. Inspected under BE 4079. Received May 05, 1992.

PI 562388 **donor id:** 15002. **origin:** Saudi Arabia. **collector id:** 15002. Cultivated. Seed.

PI 562389 **donor id:** 15009. **origin:** Saudi Arabia. **collector id:** 15009. Cultivated. Seed.

PI 562388 to 562408-continued

PI 562390	donor id: 15011. origin: Saudi Arabia. collector id: 15011. Cultivated. Seed.
PI 562391	donor id: 15013. origin: Saudi Arabia. collector id: 15013. Cultivated. Seed.
PI 562392	donor id: 15014. origin: Saudi Arabia. collector id: 15014. Cultivated. Seed.
PI 562393	donor id: 15015. origin: Saudi Arabia. collector id: 15015. Cultivated. Seed.
PI 562394	donor id: 15020. origin: Saudi Arabia. collector id: 15020. Cultivated. Seed.
PI 562395	donor id: 15030. origin: Saudi Arabia. collector id: 15030. Cultivated. Seed.
PI 562396	donor id: 15038. origin: Saudi Arabia. collector id: 15038. Cultivated. Seed.
PI 562397	donor id: 15047. origin: Saudi Arabia. collector id: 15047. Cultivated. Seed.
PI 562398	donor id: 15052. origin: Saudi Arabia. collector id: 15052. Cultivated. Seed.
PI 562399	donor id: 15053. origin: Saudi Arabia. collector id: 15053. Cultivated. Seed.
PI 562400	donor id: 15055. origin: Saudi Arabia. collector id: 15055. Cultivated. Seed.
PI 562401	donor id: 15062. origin: Saudi Arabia. collector id: 15062. Cultivated. Seed.
PI 562402	donor id: 15065. origin: Saudi Arabia. collector id: 15065. Cultivated. Seed.
PI 562403	donor id: 15069. origin: Saudi Arabia. collector id: 15069. Cultivated. Seed.
PI 562404	donor id: 15070. origin: Saudi Arabia. collector id: 15070. Cultivated. Seed.
PI 562405	donor id: 15071. origin: Saudi Arabia. collector id: 15071. Cultivated. Seed.
PI 562406	donor id: 15073. origin: Saudi Arabia. collector id: 15073. Cultivated. Seed.

PI 562388 to 562408-continued

PI 562407 **donor id:** 15076. **origin:** Saudi Arabia. **collector id:** 15076. Cultivated. Seed.

PI 562408 **donor id:** 15087. **origin:** Saudi Arabia. **collector id:** 15087. Cultivated. Seed.

PI 562409 to 562523. *Sorghum bicolor* (L.) Moench POACEAE *Sorghum*

Donated by: Guarino, L., IBPGR, Agricultural Research Institute, Min. of Agric. & Nat. Resources, P.O. Box 2016, Nicosia, Cyprus.
remarks: Received through IBPGR-Sponsored Collection in Yemen. Inspected under BE 4079. Received May 05, 1992.

PI 562409 **donor id:** 1003. **origin:** Yemen. **collector id:** 1003. Cultivated. Seed.

PI 562410 **donor id:** 1008. **origin:** Yemen. **collector id:** 1008. Cultivated. Seed.

PI 562411 **donor id:** 1012. **origin:** Yemen. **collector id:** 1012. Cultivated. Seed.

PI 562412 **donor id:** 1018. **origin:** Yemen. **collector id:** 1018. Cultivated. Seed.

PI 562413 **donor id:** 1024. **origin:** Yemen. **collector id:** 1024. Cultivated. Seed.

PI 562414 **donor id:** 1025. **origin:** Yemen. **collector id:** 1025. Cultivated. Seed.

PI 562415 **donor id:** 1027. **origin:** Yemen. **collector id:** 1027. Cultivated. Seed.

PI 562416 **donor id:** 1028. **origin:** Yemen. **collector id:** 1028. Cultivated. Seed.

PI 562417 **donor id:** 1029. **origin:** Yemen. **collector id:** 1029. Cultivated. Seed.

PI 562418 **donor id:** 1030. **origin:** Yemen. **collector id:** 1030. Cultivated. Seed.

PI 562419 **donor id:** 1032. **origin:** Yemen. **collector id:** 1032. Cultivated. Seed.

PI 562420 **donor id:** 1034. **origin:** Yemen. **collector id:** 1034. Cultivated. Seed.

PI 562421 **donor id:** 1035. **origin:** Yemen. **collector id:** 1035. Cultivated. Seed.

PI 562409 to 562523-continued

PI 562422	donor id: 1036. origin: Yemen. collector id: 1036. Cultivated. Seed.
PI 562423	donor id: 1042. origin: Yemen. collector id: 1042. Cultivated. Seed.
PI 562424	donor id: 1043. origin: Yemen. collector id: 1043. Cultivated. Seed.
PI 562425	donor id: 1046. origin: Yemen. collector id: 1046. Cultivated. Seed.
PI 562426	donor id: 1047. origin: Yemen. collector id: 1047. Cultivated. Seed.
PI 562427	donor id: 1048. origin: Yemen. collector id: 1048. Cultivated. Seed.
PI 562428	donor id: 1050. origin: Yemen. collector id: 1050. Cultivated. Seed.
PI 562429	donor id: 1052. origin: Yemen. collector id: 1052. Cultivated. Seed.
PI 562430	donor id: 1053. origin: Yemen. collector id: 1053. Cultivated. Seed.
PI 562431	donor id: 1055. origin: Yemen. collector id: 1055. Cultivated. Seed.
PI 562432	donor id: 1056. origin: Yemen. collector id: 1056. Cultivated. Seed.
PI 562433	donor id: 1057. origin: Yemen. collector id: 1057. Cultivated. Seed.
PI 562434	donor id: 1058. origin: Yemen. collector id: 1058. Cultivated. Seed.
PI 562435	donor id: 1061. origin: Yemen. collector id: 1061. Cultivated. Seed.
PI 562436	donor id: 1062. origin: Yemen. collector id: 1062. Cultivated. Seed.
PI 562437	donor id: 1063. origin: Yemen. collector id: 1063. Cultivated. Seed.
PI 562438	donor id: 1064. origin: Yemen. collector id: 1064. Cultivated. Seed.

PI 562409 to 562523-continued

PI 562439	donor id: 1067. origin: Yemen. collector id: 1067. Cultivated. Seed.
PI 562440	donor id: 1069. origin: Yemen. collector id: 1069. Cultivated. Seed.
PI 562441	donor id: 1070. origin: Yemen. collector id: 1070. Cultivated. Seed.
PI 562442	donor id: 1072. origin: Yemen. collector id: 1072. Cultivated. Seed.
PI 562443	donor id: 1074. origin: Yemen. collector id: 1074. Cultivated. Seed.
PI 562444	donor id: 1077. origin: Yemen. collector id: 1077. Cultivated. Seed.
PI 562445	donor id: 1085. origin: Yemen. collector id: 1085. Cultivated. Seed.
PI 562446	donor id: 1088. origin: Yemen. collector id: 1088. Cultivated. Seed.
PI 562447	donor id: 1091. origin: Yemen. collector id: 1091. Cultivated. Seed.
PI 562448	donor id: 1093. origin: Yemen. collector id: 1093. Cultivated. Seed.
PI 562449	donor id: 1094. origin: Yemen. collector id: 1094. Cultivated. Seed.
PI 562450	donor id: 1096. origin: Yemen. collector id: 1096. Cultivated. Seed.
PI 562451	donor id: 1098. origin: Yemen. collector id: 1098. Cultivated. Seed.
PI 562452	donor id: 1101. origin: Yemen. collector id: 1101. Cultivated. Seed.
PI 562453	donor id: 1102. origin: Yemen. collector id: 1102. Cultivated. Seed.
PI 562454	donor id: 1104. origin: Yemen. collector id: 1104. Cultivated. Seed.
PI 562455	donor id: 1106. origin: Yemen. collector id: 1106. Cultivated. Seed.

PI 562409 to 562523-continued

PI 562456	donor id: 1111. origin: Yemen. collector id: 1111. Cultivated. Seed.
PI 562457	donor id: 1114. origin: Yemen. collector id: 1114. Cultivated. Seed.
PI 562458	donor id: 1117. origin: Yemen. collector id: 1117. Cultivated. Seed.
PI 562459	donor id: 1118. origin: Yemen. collector id: 1118. Cultivated. Seed.
PI 562460	donor id: 1119. origin: Yemen. collector id: 1119. Cultivated. Seed.
PI 562461	donor id: 1120. origin: Yemen. collector id: 1120. Cultivated. Seed.
PI 562462	donor id: 1121. origin: Yemen. collector id: 1121. Cultivated. Seed.
PI 562463	donor id: 1122. origin: Yemen. collector id: 1122. Cultivated. Seed.
PI 562464	donor id: 1123. origin: Yemen. collector id: 1123. Cultivated. Seed.
PI 562465	donor id: 1124. origin: Yemen. collector id: 1124. Cultivated. Seed.
PI 562466	donor id: 1126. origin: Yemen. collector id: 1126. Cultivated. Seed.
PI 562467	donor id: 1129. origin: Yemen. collector id: 1129. Cultivated. Seed.
PI 562468	donor id: 1131. origin: Yemen. collector id: 1131. Cultivated. Seed.
PI 562469	donor id: 1132. origin: Yemen. collector id: 1132. Cultivated. Seed.
PI 562470	donor id: 1134. origin: Yemen. collector id: 1134. Cultivated. Seed.
PI 562471	donor id: 1135. origin: Yemen. collector id: 1135. Cultivated. Seed.
PI 562472	donor id: 1139. origin: Yemen. collector id: 1139. Cultivated. Seed.

PI 562409 to 562523-continued

PI 562473	donor id: 1141. origin: Yemen. collector id: 1141. Cultivated. Seed.
PI 562474	donor id: 1143. origin: Yemen. collector id: 1143. Cultivated. Seed.
PI 562475	donor id: 1148. origin: Yemen. collector id: 1148. Cultivated. Seed.
PI 562476	donor id: 1150. origin: Yemen. collector id: 1150. Cultivated. Seed.
PI 562477	donor id: 1153. origin: Yemen. collector id: 1153. Cultivated. Seed.
PI 562478	donor id: 1154. origin: Yemen. collector id: 1154. Cultivated. Seed.
PI 562479	donor id: 1156. origin: Yemen. collector id: 1156. Cultivated. Seed.
PI 562480	donor id: 1158. origin: Yemen. collector id: 1158. Cultivated. Seed.
PI 562481	donor id: 1159. origin: Yemen. collector id: 1159. Cultivated. Seed.
PI 562482	donor id: 1162. origin: Yemen. collector id: 1162. Cultivated. Seed.
PI 562483	donor id: 1163. origin: Yemen. collector id: 1163. Cultivated. Seed.
PI 562484	donor id: 1166. origin: Yemen. collector id: 1166. Cultivated. Seed.
PI 562485	donor id: 1167. origin: Yemen. collector id: 1167. Cultivated. Seed.
PI 562486	donor id: 1174. origin: Yemen. collector id: 1174. Cultivated. Seed.
PI 562487	donor id: 1175. origin: Yemen. collector id: 1175. Cultivated. Seed.
PI 562488	donor id: 1176. origin: Yemen. collector id: 1176. Cultivated. Seed.
PI 562489	donor id: 1178. origin: Yemen. collector id: 1178. Cultivated. Seed.

PI 562409 to 562523-continued

PI 562490	donor id: 1189. origin: Yemen. collector id: 1189. Cultivated. Seed.
PI 562491	donor id: 1191. origin: Yemen. collector id: 1191. Cultivated. Seed.
PI 562492	donor id: 1200. origin: Yemen. collector id: 1200. Cultivated. Seed.
PI 562493	donor id: 1202. origin: Yemen. collector id: 1202. Cultivated. Seed.
PI 562494	donor id: 1211. origin: Yemen. collector id: 1211. Cultivated. Seed.
PI 562495	donor id: 1216. origin: Yemen. collector id: 1216. Cultivated. Seed.
PI 562496	donor id: 1236a. origin: Yemen. collector id: 1236a. Cultivated. Seed.
PI 562497	donor id: 1237. origin: Yemen. collector id: 1237. Cultivated. Seed.
PI 562498	donor id: 1237a. origin: Yemen. collector id: 1237a. Cultivated. Seed.
PI 562499	donor id: 1239. origin: Yemen. collector id: 1239. Cultivated. Seed.
PI 562500	donor id: 1240. origin: Yemen. collector id: 1240. Cultivated. Seed.
PI 562501	donor id: 1241. origin: Yemen. collector id: 1241. Cultivated. Seed.
PI 562502	donor id: 1242. origin: Yemen. collector id: 1242. Cultivated. Seed.
PI 562503	donor id: 1244. origin: Yemen. collector id: 1244. Cultivated. Seed.
PI 562504	donor id: 1245. origin: Yemen. collector id: 1245. Cultivated. Seed.
PI 562505	donor id: 1246. origin: Yemen. collector id: 1246. Cultivated. Seed.
PI 562506	donor id: 1247. origin: Yemen. collector id: 1247. Cultivated. Seed.

PI 562409 to 562523-continued

PI 562507	donor id: 1251. origin: Yemen. collector id: 1251. Cultivated. Seed.
PI 562508	donor id: 1252. origin: Yemen. collector id: 1252. Cultivated. Seed.
PI 562509	donor id: 1256. origin: Yemen. collector id: 1256. Cultivated. Seed.
PI 562510	donor id: 1257. origin: Yemen. collector id: 1257. Cultivated. Seed.
PI 562511	donor id: 1258. origin: Yemen. collector id: 1258. Cultivated. Seed.
PI 562512	donor id: 1259. origin: Yemen. collector id: 1259. Cultivated. Seed.
PI 562513	donor id: 1260. origin: Yemen. collector id: 1260. Cultivated. Seed.
PI 562514	donor id: 1261. origin: Yemen. collector id: 1261. Cultivated. Seed.
PI 562515	donor id: 1263. origin: Yemen. collector id: 1263. Cultivated. Seed.
PI 562516	donor id: 1264. origin: Yemen. collector id: 1264. Cultivated. Seed.
PI 562517	donor id: 1266. origin: Yemen. collector id: 1266. Cultivated. Seed.
PI 562518	donor id: 1267. origin: Yemen. collector id: 1267. Cultivated. Seed.
PI 562519	donor id: 1268. origin: Yemen. collector id: 1268. Cultivated. Seed.
PI 562520	donor id: 1269. origin: Yemen. collector id: 1269. Cultivated. Seed.
PI 562521	donor id: 1270. origin: Yemen. collector id: 1270. Cultivated. Seed.
PI 562522	donor id: 1271. origin: Yemen. collector id: 1271. Cultivated. Seed.
PI 562523	donor id: 12006. origin: Yemen. collector id: 12006. Cultivated. Seed.

PI 562524 to 562526. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Kolding, M.F., Oregon Agr. Exp. Sta., 1910 SW 44, Pendleton, Oregon 97801-4221, United States. Received September 04, 1992.

PI 562524 **origin:** United States. **developed:** M.F. Kolding. **origin institute:** Oregon Agr. Exp. Sta., 1910 SW 44, Pendleton, Oregon 97801-4221 United States. **pedigree:** Stephens *2/Thule III, FW83112/Dirkwin, FW84106/Greer. **other id:** OR FW-HS004 "H". **remarks:** Winter wheat, mid-maturity. Height medium. Spike awned, lax, and fusiform. Glumes white, glabrous, mid-long and mid-wide. Beak acuminate. Shoulder wanting. Kernel white, mid-long, soft, elliptical. Crease wide, deep. Cheeks angular. Germ medium. Brush mid-size, mid-long. Quality good. Tolerance to dwarf-smuts (race 43 common bunts) and snow-molds in Flora, Oregon area. Breeding Material. Seed.

PI 562525 **origin:** United States. **developed:** M.F. Kolding. **origin institute:** Oregon Agr. Exp. Sta., 1910 SW 44, Pendleton, Oregon 97801-4221 United States. **pedigree:** Stephens *2/ID Snowmold Sel. 4. **other id:** OR FW-B0004. **remarks:** Winter wheat, mid-early with awned fusiform. Height medium. Spike lax. Kernel soft, white, mid-long, elliptical. Germ medium. Crease narrow-deep. Cheeks rounded, short brush-tends to collar. Some tolerance to RWA. Good tolerance to BYDV and root diseases in sandy soils. Breeding Material. Seed.

PI 562526 **origin:** United States. **developed:** M.F. Kolding. **origin institute:** Oregon Agr. Exp. Sta., 1910 SW 44, Pendleton, Oregon 97801-4221 United States. **pedigree:** *Triticum timopheevii*/2*P101//OR7721. **other id:** OR FW-HS002 "G". **remarks:** Winter wheat, mid-tall. Spike awned, lax, glabrous. Bronze mid-long. Glumes mid-wide. Shoulder wanting. Beak mid-wide, acuminate to 5mm long. Kernel white, mid-long, soft, ovate. Germ large. Crease mid-wide, deep. Cheek rounded. Brush small, mid-long. Quality good. Tolerance to dwarf-bunt (race 23 common bunts) and snowmolds in Flora, Oregon area. Breeding Material. Seed.

PI 562527. *Elytrigia intermedia* (Host) Nevski subsp. *intermedia*
POACEAE

Donated by: Berdal, J.D., Agricultural Research Service -- USDA, Northern Great Plains Res. Lab., Mandan, North Dakota 58554, United States; and Soil Conservation Service - USDA; and Nebraska Agr. Exp. Sta.. **remarks:** Manska Pubescent Intermediate Wheatgrass. Received September 17, 1992.

origin: United States. **developed:** J.D. Berdahl, R.E. Barker, J.F. Karn, J.M. Krupinsky, I.M. Ray, K.P. Vogel, K.J. Moore, T.J. Klopfenstein. **origin institute:** Agricultural Research Service - USDA, Northern Great Plains Res. Lab., Mandan, North Dakota 58554 United States. **cultivar:** MANSKA. **pedigree:** Population from 116 parent clones, traced to a source population consisting of 5160 spaced plants from 11 diverse seed lots of Mandan 759. Mandan 759 was derived from PI 116252. **other id:** Mandan I2781. **other id:** CV-21. **group:** CSR-WHEATGRASS. **other id:** W6 11001. **group:** W6. **restricted:** CSR. **remarks:** Recommended for pasture & hay in regions of northern & central Great Plains where precipitation averages more than 350mm. Nutritive value high when compared with other current intermediate wheatgrass cultivars. Significantly higher average daily gains, (stocking rate of 7.4 yearling steers ha⁻¹), than other popular intermediate wheatgrass cultivars in 2 years of grazing tests at Mead, NE. Forage & seed yields averaged near the overall test mean in regional trials. Plant height, lodging, and resistance to leaf-spot (*Cochliobolus sativus*) similar to other current cultivars. **received as:** *Thinopyrum intermedium* subsp. *barbulatum*. Perennial. Cultivar. Seed.

PI 562528. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Barnett, R.D., Florida Agr. Exp. Sta., North Florida Research & Education Ctr., Rt.#3, Box 4370, Quincy, Florida 32351, United States. Received August 01, 1992.

origin: United States. **developed:** R.D. Barnett. **origin institute:** Florida Agr. Exp. Sta., North Florida Research & Education Ctr., R.#3, Box 4370, Quincy, Florida 32351 United States. **cultivar:** FLORIDA 304. **pedigree:** FL74265-10-A2-B2/Coker 80-29. **other id:** FL8172-G98-L5. **remarks:** Soft red winter wheat, bearded, white-chaffed. Height medium. Resistance good to leaf rust and Hessian fly. Yield good. Test weight above average. Cultivar. Seed.

PI 562529. *Triticum compactum* Host POACEAE Club wheat

Donated by: Zwer, P.K., Oregon Agricultural Exp. Station, Columbia Basin Agric. Res. Center, P.O. Box 370, Pendleton, Oregon 97801, United States. Received November 04, 1992.

origin: United States. **developed:** P.K. Zwer, C.R. Rohde, W.E. Kronstad, M.F. Kolding. **origin institute:** Oregon State University, Crop and Soil Science, Corvallis, Oregon 97331 United States. **cultivar:** ROHDE. **pedigree:** Paha/Selection 72//Daws. **other id:** OR855. **remarks:** Semi-dwarf with strong, yellow straw. Spike awned, clavate, short, compact and laterally compressed. Spike 4-5cm. Awns 4-6cm. Glumes glabrous, bronze. Kernels small, white, soft, laterally compressed with small, short brush and narrow, shallow crease. Adapted to both dryland and irrigated conditions. Little or no lodging. Resistance to stripe rust. Moderately resistant to Cephalosporium stripe and common bunt. Moderately susceptible to leaf rust and susceptible to strawbreaker footrot, powdery mildew & Septoria. Excellent yield potential. Acceptable milling and baking attributes. Winter Annual. Cultivar. Seed.

PI 562530. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Reddy, L.J., ICRISAT, Legumes Program, Patancheru, Andhra Pradesh 502 324, India. **remarks:** ICGV 86590 Groundnut. Received August 04, 1992.

origin: India. **developed:** L.J. Reddy, S.N. Nigam, P. Subrahmanyam, A.G.S. Reddy, D. McDonald, R.W. Gibbons, V. Pentaiah.. **origin institute:** ICRISAT, Patancheru P.O., Andhra Pradesh 502 324 India. **cultivar:** ICGV 86590. **pedigree:** (X-14-4-B-19-B X PI 259747) F2-B2-B1-B1-B1-B1-B2. **other id:** CV-49. **group:** CSR-PEANUT. **remarks:** Erect growth habit with sequential flowering and medium elliptic, green to dark green leaves. Matures 123 days over different Indian locations during the rainy season. Mainly 3-seeded pods, with slight to moderate ridges. Average shelling turnover 65%. Seeds tan colored with 100- seed mass of 32g. Seed oil content averages 48%. Resistant to rust. Tolerant of late leaf spot. Shows lower field incidence of bud necrosis than popular Indian cvs. Less susceptible to stem & pod rots caused by *Sclerotium rolfsii*. Tolerant of Spodoptera, jassid, & collar rot attacks. Spring Annual. Cultivated. Seed.

PI 562531 to 562568. Glycine soja Siebold & Zucc. FABACEAE Wild
soybean

Donated by: Yu, H., University of New Hampshire, Dept. of Plant
Biology, Nesmith Hall, Durham, New Hampshire 03824, United States;
and Kiang, Y.T., University of New Hampshire, Dept. of Plant
Biology, Nesmith Hall, Durham, New Hampshire 03824, United States.
Received September 21, 1992.

- PI 562531 **donor id:** KA1. **origin:** Korea, Republic of. **collected:**
1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG23.
other id: 89101. **locality:** Wang Shium Ri, Bong Dam
Myeon, Gyeon Gi Do. **latitude:** 37 deg. 14 min. N.
longitude: 126 deg. 56 min. E. **remarks:** Pureline.
Breeding Material. Seed.
- PI 562532 **donor id:** KA2. **origin:** Korea, Republic of. **collected:**
1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG22.
other id: 90701. **locality:** Wang Shium Ri, Bong Dam
Myeon, Gyeon Gi Do. **latitude:** 37 deg. 14 min. N.
longitude: 126 deg. 56 min. E. **remarks:** Pureline.
Breeding Material. Seed.
- PI 562533 **donor id:** KA3. **origin:** Korea, Republic of. **collected:**
1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG27.
other id: 89711. **locality:** Wang Shium Ri, Bong Dam
Myeon, Gyeon Gi Do. **latitude:** 37 deg. 14 min. N.
longitude: 126 deg. 56 min. E. **remarks:** Pureline.
Breeding Material. Seed.
- PI 562534 **donor id:** KA5. **origin:** Korea, Republic of. **collected:**
1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG31.
other id: 89308. **locality:** Wang Shium Ri, Bong Dam
Myeon, Gyeon Gi Do. **latitude:** 37 deg. 14 min. N.
longitude: 126 deg. 56 min. E. **remarks:** Pureline.
Breeding Material. Seed.
- PI 562535 **donor id:** KA8. **origin:** Korea, Republic of. **collected:**
1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG24.
other id: 90105. **locality:** Wang Shium Ri, Bong Dam
Myeon, Gyeon Gi Do. **latitude:** 37 deg. 14 min. N.
longitude: 126 deg. 56 min. E. **remarks:** Pureline.
Breeding Material. Seed.
- PI 562536 **donor id:** KA11. **origin:** Korea, Republic of. **collected:**
1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG9.
other id: 89815. **locality:** Wang Shium Ri, Bong Dam
Myeon, Gyeon Gi Do. **latitude:** 37 deg. 14 min. N.
longitude: 126 deg. 56 min. E. **remarks:** Pureline.
Breeding Material. Seed.

PI 562531 to 562568-continued

- PI 562537 donor id: KA12. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG10. other id: 90310. locality: Wang Shium Ri, Bong Dam Myeon, Gyeon Gi Do. latitude: 37 deg. 14 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562538 donor id: KA14. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG12. other id: 90209. locality: Wang Shium Ri, Bong Dam Myeon, Gyeon Gi Do. latitude: 37 deg. 14 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562539 donor id: KA16. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG11. other id: 90809. locality: Wang Shium Ri, Bong Dam Myeon, Gyeon Gi Do. latitude: 37 deg. 14 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562540 donor id: KA18. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG8. other id: 90111. locality: Wang Shium Ri, Bong Dam Myeon, Gyeon Gi Do. latitude: 37 deg. 14 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562541 donor id: KA20. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG7. other id: 90409. locality: Wang Shium Ri, Bong Dam Myeon, Gyeon Gi Do. latitude: 37 deg. 14 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562542 donor id: KA28. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG5. other id: 90114. locality: Wang Shium Ri, Bong Dam Myeon, Gyeon Gi Do. latitude: 37 deg. 14 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562543 donor id: KB1. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG25. other id: 90813. locality: Gook-kyeo River, Yeum Chi Myeon, A San Gun, Chung Ch'ong Nam Do. latitude: 36 deg. 51 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.

PI 562531 to 562568-continued

- PI 562544 donor id: KB8. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG35. other id: 89107. locality: Gook-kyeo River, Yeum Chi Myeon, A San Gun, Chung Ch'ong Nam Do. latitude: 36 deg. 51 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562545 donor id: KB20. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG21. other id: 90715. locality: Gook-kyeo River, Yeum Chi Myeon, A San Gun, Chung Ch'ong Nam Do. latitude: 36 deg. 51 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562546 donor id: KB28. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG6. other id: 89611. locality: Gook-kyeo River, Yeum Chi Myeon, A San Gun, Chung Ch'ong Nam Do. latitude: 36 deg. 51 min. N. longitude: 126 deg. 56 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562547 donor id: KC1. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG33. other id: 90708. locality: Worl Gae River, Dae Gyo Ri, Hong-Sun Gup, Chung Ch'ong Nam Do. latitude: 36 deg. 34 min. N. longitude: 126 deg. 41 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562548 donor id: KC3. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG32. other id: 90509. locality: Worl Gae River, Dae Gyo Ri, Hong-Sun Gup, Chung Ch'ong Nam Do. latitude: 36 deg. 34 min. N. longitude: 126 deg. 41 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562549 donor id: KC6. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG26. other id: 90510. locality: Worl Gae River, Dae Gyo Ri, Hong-Sun Gup, Chung Ch'ong Nam Do. latitude: 36 deg. 34 min. N. longitude: 126 deg. 41 min. E. remarks: Pureline. Breeding Material. Seed.
- PI 562550 donor id: KC13. origin: Korea, Republic of. collected: 1986. collector: H. Yu, Y.T. Kiang. other id: MLG36. other id: 89603. locality: Worl Gae River, Dae Gyo Ri, Hong-Sun Gup, Chung Ch'ong Nam Do. latitude: 36 deg. 34 min. N. longitude: 126 deg. 41 min. E. remarks: Pureline. Breeding Material. Seed.

PI 562531 to 562568-continued

- PI 562551 **donor id:** KC26. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG30. **other id:** 90413. **locality:** Worl Gae River, Dae Gyo Ri, Hong-Sun Gup, Chung Ch'ong Nam Do. **latitude:** 36 deg. 34 min. N. **longitude:** 126 deg. 41 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562552 **donor id:** KC29. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG29. **other id:** 89503. **locality:** Worl Gae River, Dae Gyo Ri, Hong-Sun Gup, Chung Ch'ong Nam Do. **latitude:** 36 deg. 34 min. N. **longitude:** 126 deg. 41 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562553 **donor id:** KD5. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG28. **other id:** 90212. **locality:** Chang Am Ri, Jusam Myeon, Bo Lung Gun, Chung Ch'ong Nam Do. **latitude:** 36 deg. 11 min. N. **longitude:** 126 deg. 34 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562554 **donor id:** KD14. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG1. **other id:** 90205. **locality:** Chang Am Ri, Jusam Myeon, Bo Lung Gun, Chung Ch'ong Nam Do. **latitude:** 36 deg. 11 min. N. **longitude:** 126 deg. 34 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562555 **donor id:** KD17. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG16. **other id:** 90713. **locality:** Chang Am Ri, Jusam Myeon, Bo Lung Gun, Chung Ch'ong Nam Do. **latitude:** 36 deg. 11 min. N. **longitude:** 126 deg. 34 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562556 **donor id:** KE2. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG38. **other id:** 90711. **locality:** Saeg Chang River, Nam Gu Dong, Chonju City, Cholla Buk Do. **latitude:** 35 deg. 49 min. N. **longitude:** 127 deg. 07 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562557 **donor id:** KE10. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG14. **other id:** 90204. **locality:** Saeg Chang River, Nam Gu Dong, Chonju City, Cholla Buk Do. **latitude:** 35 deg. 49 min. N. **longitude:** 127 deg. 07 min. E. **remarks:** Pureline. Breeding Material. Seed.

PI 562531 to 562568-continued

- PI 562558 **donor id:** KE12. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG34. **other id:** 90215. **locality:** Saeg Chang River, Nam Gu Dong, Chonju City, Cholla Buk Do. **latitude:** 35 deg. 49 min. N. **longitude:** 127 deg. 07 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562559 **donor id:** KE16. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG17. **other id:** 90410. **locality:** Saeg Chang River, Nam Gu Dong, Chonju City, Cholla Buk Do. **latitude:** 35 deg. 49 min. N. **longitude:** 127 deg. 07 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562560 **donor id:** KE22. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG18. **other id:** 90406. **locality:** Saeg Chang River, Nam Gu Dong, Chonju City, Cholla Buk Do. **latitude:** 35 deg. 49 min. N. **longitude:** 127 deg. 07 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562561 **donor id:** KE29. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG20. **other id:** 89803. **locality:** Saeg Chang River, Nam Gu Dong, Chonju City, Cholla Buk Do. **latitude:** 35 deg. 49 min. N. **longitude:** 127 deg. 07 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562562 **donor id:** KF1. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG2. **other id:** 90707. **locality:** Osu Ri, Cholla Buk Do. **latitude:** 35 deg. 32 min. N. **longitude:** 127 deg. 20 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562563 **donor id:** KF6. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG15. **other id:** 90411. **locality:** Osu Ri, Cholla Buk Do. **latitude:** 35 deg. 32 min. N. **longitude:** 127 deg. 20 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562564 **donor id:** KF7. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG4. **other id:** 90812. **locality:** Osu Ri, Cholla Buk Do. **latitude:** 35 deg. 32 min. N. **longitude:** 127 deg. 20 min. E. **remarks:** Pureline. Breeding Material. Seed.
- PI 562565 **donor id:** KF13. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG3. **other id:** 90804. **locality:** Osu Ri, Cholla Buk Do. **latitude:** 35 deg. 32 min. N. **longitude:** 127 deg. 20 min. E. **remarks:** Pureline. Breeding Material. Seed.

PI 562531 to 562568-continued

PI 562566 **donor id:** KF18. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG13. **other id:** 90415. **locality:** Osu Ri, Cholla Buk Do. **latitude:** 35 deg. 32 min. N. **longitude:** 127 deg. 20 min. E. **remarks:** Pureline. Breeding Material. Seed.

PI 562567 **donor id:** KF19. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG37. **other id:** 90110. **locality:** Osu Ri, Cholla Buk Do. **latitude:** 35 deg. 32 min. N. **longitude:** 127 deg. 20 min. E. **remarks:** Pureline. Breeding Material. Seed.

PI 562568 **donor id:** KF24. **origin:** Korea, Republic of. **collected:** 1986. **collector:** H. Yu, Y.T. Kiang. **other id:** MLG19. **other id:** 89213. **locality:** Osu Ri, Cholla Buk Do. **latitude:** 35 deg. 32 min. N. **longitude:** 127 deg. 20 min. E. **remarks:** Pureline. Breeding Material. Seed.

PI 562569. *Zea mays* L. subsp. *mays* POACEAE Sweet corn

Donated by: Hannan, R.M., Agricultural Research Service -- USDA, Western Regional PI Station, Washington State University, Pullman, Washington 99164-6402, United States; and Kaiser, W.J., Agricultural Research Service -- USDA, Western Regional PI Station, Washington State University, Pullman, Washington 99164-6402, United States. Received September 21, 1992.

donor id: B92-2. **origin:** Bulgaria. **collected:** June 23, 1992. **collector:** R.M. Hannan, W.J. Kaiser. **collector id:** B92-2. **locality:** Balkan Mountains, 0.5km N of Monrova, a small village 8km N of Lakatnik. **elevation:** 800m. **remarks:** Local variety. Annual. Seed.

PI 562570. *Pisum sativum* L. subsp. *sativum* FABACEAE

Donated by: LaRue, T., Boyce Thompson Inst. for Pl. Res. Inc., Tower Road, Ithaca, New York 14853-1801, United States. Received September 21, 1992.

origin: United States. **cultivar:** R28. **other id:** W6 10963. **remarks:** Pods wrinkled. Internodes short. Roots thick. Overproduction of ethylene. Obtained by gamma radiation of cultivar Sparkle. Selected for sparse nodulation. Complex phenotype conditioned by single recessive gene, sym 17. Cultivar. Seed.

PI 562571. *Mammea americana* L. CLUSIACEAE Mammy-apple

Donated by: Keel, S., Latin American Science Program, Nature Conservancy, 1815 Lynn Street North, Arlington, Virginia 22209, United States. Received August 28, 1992.

origin: Ecuador. **collected:** July 17, 1992. **collector:** S. Keel. **locality:** Bought at market of Puerto Lopez, Paoninia Manafi. **remarks:** Seeds from 6 fruits. Size and color seem to be relevant to the size of fruit. Cultivated. Seed.

PI 562572. *Phytelephas macrocarpa* Ruiz Lopez & Pavon ARECACEAE

Donated by: Keel, S., Latin American Science Program, Nature Conservancy, 1815 Lynn Street North, Arlington, Virginia 22209, United States. Received August 28, 1992.

origin: Ecuador. **local name:** "Tagna", vegetable ivory. **collected:** July 17, 1992. **collector:** S. Keel. **locality:** Rio Ayamje, Rivenne forest, SW of Machalia National Park. Wild. Seed.

PI 562573. *Jacquinia arborea* M. Vahl THEOPHRASTACEAE

Donated by: Keel, S., Latin American Science Program, Nature Conservancy, 1815 Lynn Street North, Arlington, Virginia 22209, United States. Received August 28, 1992.

origin: Ecuador. **collected:** July 18, 1992. **collector:** S. Keel. **locality:** Afna Blanca Machalia National Park. **remarks:** Seeds from 1 fruit. Wild. Seed.

PI 562574 to 562578. *Saccharum* hybrid POACEAE Sugarcane

Donated by: White, W.H., Agricultural Research Service, Sugarcane Research Unit, Houma, Louisiana 70361, United States. **remarks:** Five Sugarcane Borer Resistant Sugarcane Germplasms. Received September 24, 1992.

- PI 562574 **origin:** United States. **developed:** W.H. White, B.L. Legendre, J.D. Miller, J.W. Dunckelman. **origin institute:** Agricultural Research Service -- USDA, Sugarcane Research Unit, Houma, Louisiana 70361 United States. **cultivar:** US 90-18. **pedigree:** CP 79-348/CP 83-657. Complex interspecific hybrid of *Saccharum spontaneum*, *S. officinarum*, and *S. barberi*. **other id:** GP-4. **group:** CSR-SUGARCANE. **restricted:** CSR. **remarks:** Resistant to sugarcane borer (*Diatraea saccharalis*). Exceeds commercial standards in number of mature stalks at harvest (9 months). Appear resistant to the spread of sugarcane mosaic virus and smut (*Ustilago scitaminea*) in the field. Generally erect and suited to mechanical harvesting. Moderate fiber content (12.8%). Comparable to commercial standards in commercially recoverable sugar. Produces somewhat lower cane yields than commercial standards. Breeding Material. Cutting.
- PI 562575 **origin:** United States. **developed:** W.H. White, B.L. Legendre, J.D. Miller, J.W. Dunckelman. **origin institute:** Agricultural Research Service -- USDA, Sugarcane Research Unit, Houma, Louisiana 70361 United States. **cultivar:** US 90-21. **pedigree:** CP 79-332/CP 83-657. Complex interspecific hybrid of *Saccharum spontaneum*, *S. officinarum*, and *S. barberi*. **other id:** GP-5. **group:** CSR-SUGARCANE. **restricted:** CSR. **remarks:** Resistant to sugarcane borer (*Diatraea saccharalis*). Exceeds commercial standards in number of mature stalks at harvest (9 months). Appear resistant to the spread of sugarcane mosaic virus and smut (*Ustilago scitaminea*) in the field. Generally erect and suited to mechanical harvesting. Comparable to commercial standards in commercially recoverable sugar. Produces somewhat lower cane yields than commercial standards. Sugar yield low. Breeding Material. Cutting.
- PI 562576 **origin:** United States. **developed:** W.H. White, B.L. Legendre, J.D. Miller, J.W. Dunckelman. **origin institute:** Agricultural Research Service -- USDA, Sugarcane Research Unit, Houma, Louisiana 70361 United States. **cultivar:** US 90-24. **pedigree:** CP 79-332/CP 83-657. Complex interspecific hybrid of *Saccharum spontaneum*, *S. officinarum*, and *S. barberi*. **other id:** GP-6. **group:** CSR-SUGARCANE. **restricted:** CSR. **remarks:** Resistant to sugarcane borer (*Diatraea saccharalis*). Exceeds commercial standards in number of mature stalks at harvest (9 months). Appear resistant to the spread of sugarcane mosaic virus and smut (*Ustilago scitaminea*) in the field. Generally erect and suited to mechanical harvesting. Breeding Material. Cutting.

PI 562577 **origin:** United States. **developed:** W.H. White, B.L. Legendre, J.D. Miller, J.W. Dunckelman. **origin institute:** Agricultural Research Service -- USDA, Sugarcane Research Unit, Houma, Louisiana 70361 United States. **cultivar:** US 90-26. **pedigree:** CP 79-348/CP 83-657. Complex interspecific hybrid of *Saccharum spontaneum*, *S. officinarum*, and *S. barberi*. **other id:** GP-7. **group:** CSR-SUGARCANE. **restricted:** CSR. **remarks:** Resistant to sugarcane borer (*Diatraea saccharalis*). Exceeds commercial standards in number of mature stalks at harvest (9 months). Appear resistant to the spread of sugarcane mosaic virus and smut (*Ustilago scitaminea*) in the field. Generally erect and suited to mechanical harvesting. Comparable to commercial standards in commercially recoverable sugar. Breeding Material. Cutting.

PI 562578 **origin:** United States. **developed:** W.H. White, B.L. Legendre, J.D. Miller, J.W. Dunckelman. **origin institute:** Agricultural Research Service -- USDA, Sugarcane Research Unit, Houma, Louisiana 70361 United States. **cultivar:** US 90-27. **pedigree:** CP 81-332/CP 83-632. Complex interspecific hybrid of *Saccharum spontaneum*, *S. officinarum*, and *S. barberi*. **other id:** GP-8. **group:** CSR-SUGARCANE. **restricted:** CSR. **remarks:** Resistant to sugarcane borer (*Diatraea saccharalis*). Exceeds commercial standards in number of mature stalks at harvest (9 months). Appear resistant to the spread of sugarcane mosaic virus and smut (*Ustilago scitaminea*) in the field. Generally erect and suited to mechanical harvesting. Comparable to commercial standards in commercially recoverable sugar. Breeding Material. Cutting.

PI 562579 to 562604. *Beta vulgaris* subsp. *maritima* (L.) Arcang.
CHENOPODIACEAE Sugarbeet

Donated by: Doney, D.L., Agricultural Research Service -- USDA, Northern Crop Science Lab., P.O. Box 5677, State University Sta., Fargo, North Dakota 58105, United States. Received September 18, 1992.

PI 562579 **origin:** Egypt. **collected:** May 15, 1992. **collector:** M.A. El Manhaly. **other id:** WB 1001. **locality:** Coarse sand, 120km E of Matruh. **latitude:** 31 deg. 01 min. N. **longitude:** 27 deg. E. **elevation:** 20m. **remarks:** Bulk sample of 200 plants from 200 sq. meter area. Segregating uniformity. **received as:** *Beta maritima*. Annual. Wild. Seed.

- PI 562580 **origin:** Egypt. **collected:** April 20, 1992. **collector:** M.A. El Manhaly. **other id:** WB 1002. **locality:** Silt, 170km W of Behila Damanhur. **latitude:** 30 deg. 8 min. N. **longitude:** 29 deg. 4 min. E. **elevation:** 30m. **remarks:** Bulk sample of 10 plants from 9000 sq. meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562581 **origin:** Egypt. **collected:** May 28, 1992. **collector:** M.A. El Manhaly. **other id:** WB 1003. **locality:** Silt, .50km NW of Noubaria Village 15. **latitude:** 30 deg. 7 min. N. **longitude:** 29 deg. 3 min. E. **elevation:** 25m. **remarks:** Bulk sample of 8 plants from 5000 sq. meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562582 **origin:** Egypt. **collected:** June 22, 1992. **collector:** D.L. Doney. **other id:** WB 1004. **locality:** Silt, on ditch bank, 0.6km W of Noubaria Village 15. **latitude:** 30 deg. 7 min. N. **longitude:** 29 deg. 4 min. E. **elevation:** 25m. **remarks:** Single plant sample of 19 plants from 6000 sq. meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562583 **origin:** Egypt. **collected:** June 23, 1992. **collector:** D.L. Doney. **other id:** WB 1005. **locality:** Coarse sand, around 5yr old greenhouses, 4.0km N of Matrah Al Metane. **latitude:** 31 deg. 5 min. N. **longitude:** 26 deg. 5 min. E. **elevation:** 20m. **remarks:** Single plant sample of 24 plants from 500 sq. meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562584 **origin:** Egypt. **collected:** June 24, 1992. **collector:** D.L. Doney. **other id:** WB 1006. **locality:** Silt, around greenhouses, 1.0km E of Dabah, 95km E of Matruh. **latitude:** 31 deg. 1 min. N. **longitude:** 27 deg. 7 min. E. **elevation:** 25m. **remarks:** Single plant and bulk sampling of 8 plants from 25 sq meter area. Uniform. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562585 **origin:** Egypt. **collected:** June 24, 1992. **collector:** D.L. Doney. **other id:** WB 1007. **locality:** Between greenhouses, 1.0km S of El Hamem El Omiad, 3km S of Hotel Adia. **latitude:** 30 deg. 8 min. N. **longitude:** 29 deg. E. **elevation:** 30m. **remarks:** Single plant sampling of 7 plants from 10 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.

PI 562579 to 562604-continued

- PI 562586 **origin:** Egypt. **collected:** June 25, 1992. **collector:** D.L. Doney. **other id:** WB 1008. **locality:** Along ditch by garbage dump, Alexandria Village 2 area. **latitude:** 31 deg. N. **longitude:** 30 deg. 2 min. E. **elevation:** 25m. **remarks:** Single plant sampling of 15 plants from 50 sq meter area. Uniform. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562587 **origin:** Egypt. **collected:** June 25, 1992. **collector:** D.L. Doney. **other id:** WB 1009. **locality:** Along ditch bank, Alexandria Village 1 area. **latitude:** 31 deg. N. **longitude:** 30 deg. 2 min. E. **elevation:** 25m. **remarks:** Single plant and bulk sampling of 17 plants from 200 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562588 **origin:** Egypt. **collected:** June 25, 1992. **collector:** D.L. Doney. **other id:** WB 1010. **locality:** Along canal bank, Alexandria Village 3 area. **latitude:** 31 deg. N. **longitude:** 30 deg. 2 min. E. **elevation:** 25m. **remarks:** Single plant and bulk sampling of 10 plants from 500 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562589 **origin:** Egypt. **collected:** June 25, 1992. **collector:** D.L. Doney. **other id:** WB 1011. **locality:** Along canal, Alexandria Village 4 area. **latitude:** 31 deg. N. **longitude:** 30 deg. 2 min. E. **elevation:** 25m. **remarks:** Single plant and bulk sampling of 11 plants from 5000 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562590 **origin:** Egypt. **collected:** June 25, 1992. **collector:** D.L. Doney. **other id:** WB 1012. **locality:** Along canal, Alexandria Village 7. **latitude:** 31 deg. N. **longitude:** 30 deg. 2 min. E. **elevation:** 25m. **remarks:** Single plant and bulk sampling of 11 plants from 5000 sq meter area. Segregating uniformity. Green with red seed and prostrate. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562591 **origin:** Egypt. **collected:** June 26, 1992. **collector:** D.L. Doney. **other id:** WB 1013. **locality:** Clay soil, large field, Alexandria Village 10 area. **latitude:** 31 deg. N. **longitude:** 30 deg. 2 min. E. **elevation:** 15m. **remarks:** Single plant and bulk sampling of 37 plants from 5000 sq meter area. Segregating uniformity. Seg stem, seed and growth habit. **received as:** Beta maritima. Annual. Wild. Seed.

PI 562579 to 562604-continued

- PI 562592 **origin:** Egypt. **collected:** June 26, 1992. **collector:** D.L. Doney. **other id:** WB 1014. **locality:** Clay soil, along canal, Alexandria Village 7 area. **latitude:** 31 deg. N. **longitude:** 30 deg. 2 min. E. **elevation:** 15m. **remarks:** Single plant and bulk sampling of 13 plants from 5000 sq meter area. Segregating uniformity. Plants small, dry. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562593 **origin:** Egypt. **collected:** June 27, 1992. **collector:** D.L. Doney. **other id:** WB 1015. **locality:** 3km NW of Kafr Ash Shaykh. **latitude:** 31 deg. 1 min. N. **longitude:** 30 deg. 9 min. E. **elevation:** 15m. **remarks:** Bulk and single plant sampling of 500 plants from 5000 sq meter area. Segregating uniformity. Large group planted for comparison with SB. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562594 **origin:** Egypt. **collected:** June 27, 1992. **collector:** D.L. Doney. **other id:** WB 1016. **locality:** Along ditch, 1km N of Kafr Ash Shaykh. **latitude:** 31 deg. 1 min. N. **longitude:** 30 deg. 9 min. E. **elevation:** 15m. **remarks:** Bulk sample of 500 plants from 5000 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562595 **origin:** Egypt. **collected:** June 27, 1992. **collector:** D.L. Doney. **other id:** WB 1017. **locality:** Along bank of ditches, 1km N of Bela El Owywa. **latitude:** 31 deg. 1 min. N. **longitude:** 31 deg. 2 min. E. **elevation:** 15m. **remarks:** Bulk sample of 500 plants from 5000 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562596 **origin:** Egypt. **collected:** June 27, 1992. **collector:** D.L. Doney. **other id:** WB 1018. **locality:** Around greenhouses, Domyat, Kafer Saad. **latitude:** 31 deg. 3 min. N. **longitude:** 31 deg. 5 min. E. **elevation:** 15m. **remarks:** Bulk and single plant sample of 500 plants from 500 sq meter area. Segregating uniformity. Plants very dry. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562597 **origin:** Egypt. **collected:** June 28, 1992. **collector:** D.L. Doney. **other id:** WB 1019. **locality:** Around greenhouses, Port Said Ext. Farm area. **latitude:** 31 deg. 1 min. N. **longitude:** 32 deg. 2 min. E. **elevation:** 15m. **remarks:** Bulk and single plant sampling of 20 plants from 500 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.

- PI 562598 **origin:** Egypt. **collected:** June 28, 1992. **collector:** D.L. Doney. **other id:** WB 1020. **locality:** Around greenhouses, 31km S of Port Said Ext. Agr. Project. **latitude:** 30 deg. 8 min. N. **longitude:** 32 deg. 2 min. E. **elevation:** 15m. **remarks:** Bulk and single plant sampling of 100 plants from 5000 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562599 **origin:** Egypt. **collected:** June 29, 1992. **collector:** D.L. Doney. **other id:** WB 1021. **locality:** Silt soil, along canal bank, Fayyum Abo Khlaf Farm. **latitude:** 29 deg. 2 min. N. **longitude:** 30 deg. 9 min. E. **elevation:** 25m. **remarks:** Bulk sample of 100 plants from 500 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562600 **origin:** Egypt. **collected:** June 29, 1992. **collector:** D.L. Doney. **other id:** WB 1022. **locality:** Silt soil, small field, Fayyum Harfosh Farm. **latitude:** 29 deg. 2 min. N. **longitude:** 30 deg. 9 min. E. **elevation:** 25m. **remarks:** Bulk sample of 500 plants from 5000 sq meter area. Segregating uniformity. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562601 **origin:** Egypt. **collected:** June 29, 1992. **collector:** D.L. Doney. **other id:** WB 1023. **locality:** Silt soil by bridge, Bani Suwaf El Azhary. **latitude:** 29 deg. N. **longitude:** 31 deg. E. **elevation:** 25m. **remarks:** Single plant sample of 3 plants from 25 sq meter area. Uniform. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562602 **origin:** Egypt. **collected:** July 01, 1992. **collector:** D.L. Doney. **other id:** WB 1024. **locality:** Luxor El Awania Farm. **latitude:** 25 deg. 3 min. N. **longitude:** 32 deg. 7 min. E. **elevation:** 82m. **remarks:** Bulk sample of 200 plants from 1000 sq meter area. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562603 **origin:** Egypt. **collected:** July 01, 1992. **collector:** D.L. Doney. **other id:** WB 1025. **locality:** Along Nile, Luxor El Gamal. **latitude:** 25 deg. 1 min. N. **longitude:** 32 deg. 6 min. E. **elevation:** 82m. **remarks:** Single plant or bulk sampling of 5 plants from 5000 sq meter area. **received as:** Beta maritima. Annual. Wild. Seed.
- PI 562604 **origin:** Egypt. **collected:** July 01, 1992. **collector:** D.L. Doney. **other id:** WB 1026. **locality:** Luxor El Odysat. **latitude:** 25 deg. N. **longitude:** 32 deg. 5 min. E. **elevation:** 82m. **remarks:** Bulk sample. **received as:** Beta maritima. Annual. Wild. Seed.

PI 562605 to 562610. *Sorghum bicolor* (L.) Moench POACEAE *Sorghum*

Donated by: Pedersen, J., Agricultural Research Service -- USDA, University of Nebraska, Lincoln, Nebraska 68583-0937, United States. Received September 24, 1992.

- PI 562605 **origin:** United States. **cultivar:** N127. **pedigree:** 8 generations of selfing of S2's selected directly from the RP2B population. **remarks:** Sorghum A/B Pair parental line derived from the RP2B population (originating from American and exotic lines from Uganda and the Texas/ARS Puerto Rico Conversion Program). Average hybrid yield performance at 5 locations/year combinations (Mead and Lincoln, NE: 1989-1991) was comparable to commercial checks. Seeds white. Plant height ranges from 100-125cm, and 50% bloom range from 74-85 days at Lincoln, NE. Spring Annual. Breeding Material. Seed.
- PI 562606 **origin:** United States. **cultivar:** N128. **pedigree:** 8 generations of selfing of S2's selected directly from the RP2B population. **remarks:** Sorghum A/B Pair parental line derived from the RP2B population (originating from American and exotic lines from Uganda and the Texas/ARS Puerto Rico Conversion Program). Average hybrid yield performance at 5 locations/year combinations (Mead and Lincoln, NE: 1989-1991) was comparable to commercial checks. Seeds white. Plant height ranges from 100-125cm, and 50% bloom range from 74-85 days at Lincoln, NE. Spring Annual. Breeding Material. Seed.
- PI 562607 **origin:** United States. **cultivar:** N129. **pedigree:** 8 generations of selfing of S2's selected directly from the RP2B population. **remarks:** Sorghum A/B Pair parental line derived from the RP2B population (originating from American and exotic lines from Uganda and the Texas/ARS Puerto Rico Conversion Program). Average hybrid yield performance at 5 locations/year combinations (Mead and Lincoln, NE: 1989-1991) was comparable to commercial checks. Seeds white. Plant height ranges from 100-125cm, and 50% bloom range from 74-85 days at Lincoln, NE. Spring Annual. Breeding Material. Seed.
- PI 562608 **origin:** United States. **cultivar:** N130. **pedigree:** 8 generations of selfing of S2's selected directly from the RP2B population. **remarks:** Sorghum A/B Pair parental line derived from the RP2B population (originating from American and exotic lines from Uganda and the Texas/ARS Puerto Rico Conversion Program). Average hybrid yield performance at 5 locations/year combinations (Mead and Lincoln, NE: 1989-1991) was comparable to commercial checks. Seeds white. Plant height ranges from 100-125cm, and 50% bloom range from 74-85 days at Lincoln, NE. Spring Annual. Breeding Material. Seed.

PI 562609 **origin:** United States. **cultivar:** N131. **pedigree:** 8 generations of selfing of S2's selected directly from the RP2B population. **remarks:** Sorghum A/B Pair parental line derived from the RP2B population (originating from American and exotic lines from Uganda and the Texas/ARS Puerto Rico Conversion Program). Average hybrid yield performance at 5 locations/year combinations (Mead and Lincoln, NE: 1989-1991) was comparable to commercial checks. Seeds white. Plant height ranges from 100-125cm, and 50% bloom range from 74-85 days at Lincoln, NE. Spring Annual. Breeding Material. Seed.

PI 562610 **origin:** United States. **cultivar:** N132. **pedigree:** 8 generations of selfing of S2's selected directly from the RP2B population. **remarks:** Sorghum A/B Pair parental line derived from the RP2B population (originating from American and exotic lines from Uganda and the Texas/ARS Puerto Rico Conversion Program). Average hybrid yield performance at 5 locations/year combinations (Mead and Lincoln, NE: 1989-1991) was comparable to commercial checks. Seeds white. Plant height ranges from 100-125cm, and 50% bloom range from 74-85 days at Lincoln, NE. Spring Annual. Breeding Material. Seed.

PI 562611. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Young, L.D., Agricultural Research Service -- USDA, 605 Airways Blvd., Jackson, Tennessee 38301-3201, United States.
remarks: J87-233 Soybean Germplasm. Received September 24, 1992.

origin: United States. **developed:** Lawrence D. Young.
origin institute: Agricultural Research Service -- USDA, Nematology Research, 605 Airways Blvd., Jackson, Tennessee 38301 United States. **cultivar:** J87-233.
pedigree: ('Bedford' X D79-5353) X (D79-5353 X PI 90763).
other id: GP-152. **group:** CSR-SOYBEAN. **restricted:** CSR.
remarks: High level of resistance to soybean cyst nematode (*Heterodera glycines* Ichinohe) Races 1, 2, 3 and 5, and moderate resistance to Race 14. Resistant to root-knot nematode (*Meloidogyne incognita*). Growth habit determinate. Pubescence tawny. Pod walls tan at maturity. Flowers purple. Maturity Group V, averaging 7 days earlier in maturity than Bedford. Seeds yellow with black hila. Seed yield similar to Bedford in the absence of *H. glycines*. Spring Annual. Breeding Material. Seed.

PI 562612 to 562619. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Patterson, F.L., Purdue University Agr. Exp. Sta., West Lafayette, Indiana 47907, United States; and Agricultural Research Service, West Lafayette, Indiana 47907, United States. Received September 24, 1992.

PI 562612 **origin:** United States. **developed:** F.L. Patterson, F.B. Maas III, J.E. Foster, R.H. Ratcliffe, S. Cambron, G. Safranski, P.L. Taylor, H.W. Ohm. **origin institute:** Indiana Agric. Exp. Station/USDA-ARS, Purdue University, West Lafayette, Indiana 47907 United States. **origin institute id:** IN86910A1-1-1. **cultivar:** CAROL. **pedigree:** Newton-207*5/Larned. **remarks:** Resistance gene H3H3 is a single-gene resistance to Hessian fly in a background of Newton hard red winter wheat. Developed by 2-6 backcrosses to a single typical plant of Newton, selection 207 or its selfed progeny, followed by 3-5 generations of plant selection. Tested to biotypes B, C, D & L of Hessian fly to verify recovery of typical resistant reactions. Tested as seedlings in growth chambers at 18 deg. C. Reactions were typical. Adequate winterhardiness for testing in many areas of US for determining the value of individual genes providing resistance to Hessian fly. Breeding Material. Seed.

PI 562613 **origin:** United States. **developed:** F.L. Patterson, F.B. Maas III, J.E. Foster, R.H. Ratcliffe, S. Cambron, G. Safranski, P.L. Taylor, H.W. Ohm. **origin institute:** Indiana Agric. Exp. Station/USDA-ARS, Purdue University, West Lafayette, Indiana 47907 United States. **origin institute id:** IN85132A2-1-1. **cultivar:** ERIN. **pedigree:** Newton-207*7/Arthur 71. **remarks:** Resistance gene H5H5 is a single-gene resistance to Hessian fly in a background of Newton hard red winter wheat. Developed by 2-6 backcrosses to a single typical plant of Newton, selection 207 or its selfed progeny, followed by 3-5 generations of plant selection. Tested to biotypes B, C, D & L of Hessian fly to verify recovery of typical resistant reactions. Tested as seedlings in growth chambers at 18 deg. C. Reactions were typical. Adequate winterhardiness testing in many areas of US for determining the value of individual genes providing resistance to Hessian fly. Breeding Material. Seed.

PI 562614 **origin:** United States. **developed:** F.L. Patterson, F.B. Maas III, J.E. Foster, R.H. Ratcliffe, S. Cambron, G. Safranski, P.L. Taylor, H.W. Ohm. **origin institute:** Indiana Agric. Exp. Station/USDA-ARS, Purdue University, West Lafayette, Indiana 47907 United States. **origin institute id:** IN85135D7-2-1. **cultivar:** FLYNN. **pedigree:** New-207*7/Knox 62. **remarks:** Resistance gene H6H6 is a single-gene resistance to Hessian fly in a background of Newton hard red winter wheat. Developed by 2-6 backcrosses to a single typical plant of Newton, selection 207 or its selfed progeny, followed by 3-5 generations of plant selection. Tested to biotypes B, C, D & L of Hessian fly to verify recovery of typical resistant reactions. Tested as seedlings in growth chambers at 18 deg. C. Reactions were typical. Adequate winterhardiness testing in many areas of US for determining the value of individual genes providing resistance to Hessian fly. Breeding Material. Seed.

PI 562615 **origin:** United States. **developed:** F.L. Patterson, F.B. Maas III, J.E. Foster, R.H. Ratcliffe, S. Cambron, G. Safranski, P.L. Taylor, H.W. Ohm. **origin institute:** Indiana Agric. Exp. Station/USDA-ARS, Purdue University, West Lafayette, Indiana 47907 United States. **origin institute id:** IN85138D1-3-3. **cultivar:** IRIS. **pedigree:** Newton-207*7/Ella. **remarks:** Resistance gene H9H9 is a single-gene resistance to Hessian fly in a background of Newton hard red winter wheat. Developed by 2-6 backcrosses to a single typical plant of Newton, selection 207 or its selfed progeny, followed by 3-5 generations of plant selection. Tested to biotypes B, C, D & L of Hessian fly to verify recovery of typical resistant reactions. Tested as seedlings in growth chambers at 18 deg. C. Reactions were typical. Adequate winterhardiness testing in many areas of US for determining the value of individual genes providing resistance to Hessian fly. Breeding Material. Seed.

PI 562616 **origin:** United States. **developed:** F.L. Patterson, F.B. Maas III, J.E. Foster, R.H. Ratcliffe, S. Cambron, G. Safranski, P.L. Taylor, H.W. Ohm. **origin institute:** Indiana Agric. Exp. Station/USDA-ARS, Purdue University, West Lafayette, Indiana 47907 United States. **origin institute id:** IN85153A2-1-3-3. **cultivar:** JOY. **pedigree:** Newton-207*3/IN76529A5-3-3. **remarks:** Resistance gene H10H10 is a single-gene resistance to Hessian fly in a background of Newton hard red winter wheat. Developed by 2-6 backcrosses to a single typical plant of Newton, selection 207 or its selfed progeny, followed by 3-5 generations of plant selection. Tested to biotypes B, C, D & L of Hessian fly to verify recovery of typical resistant reactions. Tested as seedlings in growth chambers at 18 deg. C. Reactions were typical. Adequate winterhardiness testing in many areas of US for determining the value of individual genes providing resistance to Hessian fly. Breeding Material. Seed.

PI 562617 **origin:** United States. **developed:** F.L. Patterson, F.B. Maas III, J.E. Foster, R.H. Ratcliffe, S. Cambron, G. Safranski, P.L. Taylor, H.W. Ohm. **origin institute:** Indiana Agric. Exp. Station/USDA-ARS, Purdue University, West Lafayette, Indiana 47907 United States. **origin institute id:** IN85144A2-4-1. **cultivar:** KAREN. **pedigree:** Newton-207*4/IN916-1-3-1-47-1. **remarks:** Resistance gene H11H11 is a single-gene resistance to Hessian fly in a background of Newton hard red winter wheat. Developed by 2-6 backcrosses to a single typical plant of Newton, selection 207 or its selfed progeny, followed by 3-5 generations of plant selection. Tested to biotypes B, C, D & L of Hessian fly to verify recovery of typical resistant reactions. Tested as seedlings in growth chambers at 18 deg. C. Reactions were typical. Adequate winterhardiness testing in many areas of US for determining the value of individual genes providing resistance to Hessian fly. Breeding Material. Seed.

- PI 562618 **origin:** United States. **developed:** F.L. Patterson, F.B. Maas III, J.E. Foster, R.H. Ratcliffe, S. Cambron, G. Safranski, P.L. Taylor, H.W. Ohm. **origin institute:** Indiana Agric. Exp. Station/USDA-ARS, Purdue University, West Lafayette, Indiana 47907 United States. **origin institute id:** IN841453H15-1-1-1-1-2. **cultivar:** LOLA. **pedigree:** Newton-207*4/Luso. **remarks:** Resistance gene H12H12 is a single-gene resistance to Hessian fly in a background of Newton hard red winter wheat. Developed by 2-6 backcrosses to a single typical plant of Newton, selection 207 or its selfed progeny, followed by 3-5 generations of plant selection. Tested to biotypes B, C, D & L of Hessian fly to verify recovery of typical resistant reactions. Tested as seedlings in growth chambers at 18 deg. C. Reactions were typical. Adequate winterhardiness testing in many areas of US for determining the value of individual genes providing resistance to Hessian fly. Breeding Material. Seed.
- PI 562619 **origin:** United States. **developed:** F.L. Patterson, F.B. Maas III, J.E. Foster, R.H. Ratcliffe, S. Cambron, G. Safranski, P.L. Taylor, H.W. Ohm. **origin institute:** Indiana Agric. Exp. Station/USDA-ARS, Purdue University, West Lafayette, Indiana 47907 United States. **origin institute id:** IN85141B1-2-2. **cultivar:** MOLLY. **pedigree:** Newton-207*7/3/KU212-19/Eagle//KS806. **remarks:** Resistance gene H13H13 is a single-gene resistance to Hessian fly in a background of Newton hard red winter wheat. Developed by 2-6 backcrosses to a single typical plant of Newton, selection 207 or its selfed progeny, followed by 3-5 generations of plant selection. Tested to biotypes B, C, D & L of Hessian fly to verify recovery of typical resistant reactions. Tested as seedlings in growth chambers at 18 deg. C. Reactions were typical. Adequate winterhardiness testing in many areas of US for determining the value of individual genes providing resistance to Hessian fly. Breeding Material. Seed.

PI 562620. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Royal Sluis, Koninklijke, Zaaizaadbedrijven, Gebroeders Sluis, B.V., Netherlands. Received September 28, 1992.

origin: Netherlands. **origin institute:** Royal Sluis, Koninklijke, Zaaizaadbedrijven, Gebroeders Sluis, B.V. Netherlands. **cultivar:** ENCORE. **other id:** PVP 9200258. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562621. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PH538.
other id: PVP 9200259. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562622. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PHB122.
other id: PVP 9200260. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562623. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PHB118.
other id: PVP 9200261. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562624. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PHA118.
other id: PVP 9200262. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562625. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PHA122.
other id: PVP 9200263. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562626. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Pickseed West, Inc., United States. Received September 28, 1992.

origin: United States. **origin institute:** Pickseed West, Inc. United States. **cultivar:** EXPRESS. **other id:** PVP 9200265. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562627. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Pickseed West, Inc., United States. Received September 28, 1992.

origin: United States. **origin institute:** Pickseed West, Inc. United States. **cultivar:** DELAWARE DWARF. **other id:** PVP 9200266. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562628. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: DEKALB Plant Genetics, United States. Received September 28, 1992.

origin: United States. **origin institute:** DEKALB Plant Genetics United States. **cultivar:** CX121. **other id:** PVP 9200267. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562629. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Company, Inc., United States. Received September 28, 1992.

origin: United States. **origin institute:** Jacob Hartz Seed Company, Inc. United States. **cultivar:** H8448. **other id:** PVP 9200268. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562630. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Forbes Seed & Grain, Inc., United States. Received September 28, 1992.

origin: United States. **origin institute:** Forbes Seed & Grain, Inc. United States. **cultivar:** NIGHT HAWK. **other id:** PVP 9200269. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 562631. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Brinker Orsetti Seed Company, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Brinker Orsetti Seed Company, Inc. United States. **cultivar:** TWO STAR.
other id: PVP 9200270. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562632. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PHA015.
other id: PVP 9200271. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562633. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PHA043.
other id: PVP 9200272. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562634. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PHA052.
other id: PVP 9200273. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562635. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PHA053.
other id: PVP 9200274. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562636. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Pioneer Hi-Bred International, Inc., United States.
Received September 28, 1992.

origin: United States. **origin institute:** Pioneer Hi-Bred International, Inc. United States. **cultivar:** PHA061.
other id: PVP 9200275. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 562637. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: DEKALB Plant Genetics, United States. Received
September 28, 1992.

origin: United States. **origin institute:** DEKALB Plant Genetics United States. **cultivar:** CX248. **other id:** PVP 9200276. **source:** Pending. **group:** PVPO. **patent:** PVPO.
Cultivar. Seed.

PI 562638 to 562639. *Carthamus tinctorius* L. ASTERACEAE Safflower

Received .

PI 562638 **origin:** India. **remarks:** Previously PI 248331 was
erroneously assigned to this accession in GRIN. Seed.

PI 562639 **origin:** India. **remarks:** Previously PI 248332 was
erroneously assigned to this accession in GRIN. Seed.

PI 562640 to 562641. *Avena sativa* L. POACEAE Common oat

Donated by: Ross, D.R., Alaska Plant Materials Center, HC 02 Box
7440, Palmer, Alaska 99645, United States. Received October 01,
1992.

PI 562640 **origin:** United States. **developed:** R.L. Taylor. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **origin institute id:** 55II-51-7-185. **cultivar:** CEAL. **pedigree:** Climax/Eaton. **other id:** CV-287. **source:** Crop Sci. 18(3):525 1978. **group:** CSR-OAT. **remarks:** Early maturing, short, stiff-strawed, white-glumed oat. Principal performance comparisons have been in the Matanuska Valley in southcentral Alaska. Produced average grain yield of 2,692 kg/ha, 8% below Golden Rain, a longtime recommended oat cv. for this area. Compared to Golden Rain, maturity averaged 5.8 days earlier, height 11.4cm shorter, and lodging resistance superior. However, 4% lower in test weight than Golden Rain. Kernel weight of the two cv. equal. Recommended for grain production in areas of Alaska where early maturity is required. Spring Annual. Cultivar. Seed.

PI 562641 **origin:** United States. **developed:** R.L. Taylor. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **origin institute id:** Alaska No. 61II-55-19-95-15. **cultivar:** TORAL. **pedigree:** Orion III/Tatrzenski. **other id:** CV-278. **source:** Crop Sci. 17(5):823 1977. **group:** CSR-OAT. **remarks:** Tall, stiff-strawed, midseason, high yielding, yellow-glumed oat. Principal performance comparisons have been in the Matanuska Valley of southcentral Alaska. Produced an average grain yield of 2,688 kg/ha, 15% above Golden Rain, a long-time recommended oat cv. for this area. Averaged 2.4 days earlier in maturity and 7.4cm shorter in height than Golden Rain. Equal in test weight and crude protein content of grain, but superior in resistance to lodging and shattering. Recommended for full-season grain prod. in areas of Alaska with sufficient growing season for oats. Spring Annual. Cultivar. Seed.

PI 562642. *Festuca rubra* L. POACEAE Creeping red fescue

Donated by: Ross, D.R., Alaska Plant Materials Center, HC 02 Box 7440, Palmer, Alaska 99645, United States. Received October 01, 1992.

origin: United States. **developed:** H.J. Hodgson, R.L. Taylor, I.J. Klebesadel, A.C. Wilson. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **cultivar:** ARCTARED. **pedigree:** Traces to single plant collected in Matanuska Valley of southcentral Alaska in 1957. **other id:** CV-13. **source:** Crop Sci. 18(3):524 1978. **group:** CSR-FESCUE. **other id:** W6 198. **group:** W6. **remarks:** First red fescue cultivar to show dependable winter survival in the Matanuska Valley of southcentral Alaska. Produces dense, medium-textured, medium-green turf, somewhat lighter in color than most introduced cultivars. Rapid germination and excellent seedling vigor contributes to the speedy establishment of new seedlings. Average seed yields 425 kg/ha. Perennial. Cultivar. Seed.

PI 562643 to 562645. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: Ross, D.R., Alaska Plant Materials Center, HC 02 Box 7440, Palmer, Alaska 99645, United States. Received October 01, 1992.

PI 562643 **origin:** United States. **developed:** R.L. Taylor. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **origin institute id:** Alaska 60II-54-1-2. **cultivar:** LIDAL. **pedigree:** Olli/Edda. **other id:** CV-153. **source:** Crop Sci. 18(2):353 1978. **group:** CSR-BARLEY. **remarks:** High yielding, early, midtall, rough-awned, six-rowed, spring barley. Kernels covered, medium sized, with short hairs on the rachilla, and have white aleurone. Spike semi-dense results in kernel-tip displacement, imparting a distinctive spreading-awn appearance to the head, in comparison to either parent. Recommended for feed grain production in all areas of Alaska where cereals can be grown dependably. Spring Annual. Cultivar. Seed.

PI 562644 **origin:** United States. **developed:** R.L. Taylor. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **origin institute id:** 7111-67-18-57. **cultivar:** OTAL. **pedigree:** Otra (CI 11297)/1514-64. **other id:** BT 655. **remarks:** Early maturing, mid-tall, stiff-strawed, rough-awned, six-rowed, high yielding spring barley. In testing in Matanuska Valley in southcentral Alaska, averaged 4.2 days earlier in maturity than Edda, a longtime standard cultivar. Yield averaged 118% of Edda. Plants average 1.8 inches shorter than Edda. Equal in lodging resistance. Bushel weight averages 104% of Edda. Yield component averages show produces considerably more culms per unit area (129%), slightly heavier kernels (102%), and fewer kernels per culm (90%) in comparison with Edda. Spring Annual. Cultivar. Seed.

PI 562645 **origin:** United States. **developed:** R.L. Taylor. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **cultivar:** THUAL. **pedigree:** Otra (11297)/Unnamed hull-less line from Ireland. **other id:** 7411-69-70-15-2. **remarks:** Early maturing, mid-tall, moderately stiff-strawed, rough-awned, six-rowed, naked-kerneled (or hull-less) spring barley. In testing in Matanuska Valley of southcentral Alaska, averaged 1.1 days later in maturity than Edda, a longtime standard cultivar. Yield averaged 104% of Edda. Plants average .8 inch taller than Edda. Lodging resistance weak, but better than most hull-less material tested. Yield component averages show produces slightly more culms per unit area (10%), slightly lighter kernels, and more kernels per culm in comparison to Edda. Spring Annual. Cultivar. Seed.

PI 562646 to 562647. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Ross, D.R., Alaska Plant Materials Center, HC 02 Box 7440, Palmer, Alaska 99645, United States. Received October 01, 1992.

PI 562646 **origin:** United States. **developed:** R.L. Taylor. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **origin institute id:** 67II-62-7-E-7. **cultivar:** NOGAL. **pedigree:** Norrona(PI 264275)/Gasser(CI 13289). **remarks:** Early-maturing, mid-tall, stiff-strawed, red-glumed, red-kerneled, awnleted, hard red spring wheat. Testing in Matanuska Valley of southcentral Alaska, averaged 1.2 days earlier in maturity than Gasser, an extremely early cv. Yield averaged 101% of Gasser. Plants average .8 inch shorter than Gasser, with lodging resistance nearly equal. Bushel weight averaged slightly higher than Gasser. Yield component averages indicates produces fewer culms per unit area, fewer kernels per culm, but much heavier kernels, in comparison with Gasser. Satisfactory for home use. Spring Annual. Cultivar. Seed.

PI 562647 **origin:** United States. **developed:** R.L. Taylor. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **origin institute id:** 61II-55-12-62-10. **cultivar:** INGAL. **pedigree:** Norin No. 16(PI 155264)/Gasser(CI 13289). **remarks:** Early maturing, short, stiff-strawed, red-glumed, red-kerneled, awnleted, hard red spring wheat. Testing in Matanuska Valley of southcentral Alaska, averaged 1.2 days earlier in maturity than Gasser, an extremely early cv. Yield, however, averaged only 94% of Gasser. Plants average 8.2 inches shorter than Gasser, but superior in lodging resistance. Bushel weight equal to Gasser. Yield component averages show produces more culms per unit area (106%), fewer kernels per culm, and slightly lighter kernels in comparison with Gasser. Spring Annual. Cultivar. Seed.

PI 562648. *Bromus inermis* subsp. *pumpellianus* (Scribner) Wagon
POACEAE Bromegrass

Donated by: Ross, D.R., Alaska Plant Materials Center, HC 02 Box 7440, Palmer, Alaska 99645, United States. Received October 01, 1992.

origin: United States. **developed:** H.J. Hodgson, A.C. Wilton, R.L. Taylor, L.J. Klebesadel.. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **cultivar:** POLAR. **pedigree:** Derived from 16 superior clones selected from over 200 clones evaluated for winterhardiness and forage yield. **other id:** CV-15. **source:** Crop Sci. 11(6):939 1971. **group:** CSR-BROMEGRASS. **other id:** W6 11044. **group:** W6. **remarks:** Considerable phenotypic variability exists among plants of Polar because of wide genotypic base of the parent clones. About 5% have very pubescent and 60% slightly pubescent nodes. About 75% of the lemmas are slightly to extremely pubescent. Less susceptible to lodging and spread by rhizomes somewhat less vigorously than most cvs. Outstanding winterhardiness in Alaska and produces consistently high forage yields. Perennial. Cultivar. Seed.

PI 562649. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by: Ross, D.R., Alaska Plant Materials Center, HC 02 Box 7440, Palmer, Alaska 99645, United States. Received October 01, 1992.

origin: United States. **developed:** J.H. Hodgson, R.L. Taylor, A.C. Wilton, L.J. Klebesadel. **origin institute:** Alaska Agr. Exp. Sta., Palmer, Alaska 99645 United States. **cultivar:** NUGGET. **pedigree:** Traces to seed collection made at Hope, Alaska (60 deg. 54' N. lat.). **other id:** CV-5. **source:** Crop Sci. 11(6):938 1971. **group:** CSR-BLUEGRASS. **other id:** W6 11047. **group:** W6. **remarks:** Characterized by outstanding winterhardiness, abundant rhizome population, very dense, dark green turf with vertically oriented leaves, tolerance to close mowing, high tolerance to natural infestations of powdery mildew and *Helminthosporium* at Palmer, and rapid germination and vigorous seedling development. Semi-dwarf. Seed yields over 1000 kilograms per hectare. Susceptibility to snowmold in Alaska comparable to that of other cvs. Used primarily for turf and is the only known cv. of Kentucky bluegrass sufficiently winter-hardy for reliable use in Alaska. Perennial. Cultivar. Seed.

PI 562650. *Arctagrostis latifolia* (R. Br.) Griseb. POACEAE Polargrass

Donated by: Ross, D.R., Alaska Plant Materials Center, HC 02 Box 7440, Palmer, Alaska 99645, United States. Received October 01, 1992.

origin: United States. **developed:** Wm. W. Mitchell..
origin institute: Alaska Agr. Exp. Sta., Palmer, Alaska
99645 United States. **cultivar:** ALYESKA. **pedigree:**
Based on 27 collections from a number of locations in
interior and western Alaska. **other id:** CV-61. **source:**
Crop Sci. 20(5):671 1980. **group:** CSR-OTHER GRASSES.
other id: W6 11043. **group:** W6. **remarks:** Medium to tall
grass, growing to ca. 1.4m in height, with wide, lax
leaves and stout rhizomes giving a conservative spreading
habit. In open stands, forms dense, robust clumps of
leafy stems. Inflorescences narrow and erect to open and
lax. Includes both tetraploid ($2n=28$) and octoploid
($2n=56$) plants. Recommended for use in revegetation mixes
in Alaska where recovery by native species is desired, or
in arctic, alpine, or coastal tundra regions where many
commonly used cvs. may be difficult to establish and
maintain. Perennial. Cultivar. Seed.

PI 562651. *Calamagrostis canadensis* (Michaux) P. Beauv. POACEAE
Bluejoint reedgrass

Donated by: Ross, D.R., Alaska Plant Materials Center, HC 02 Box
7440, Palmer, Alaska 99645, United States. Received October 01,
1992.

origin: United States. **developed:** Wm. W. Mitchell..
origin institute: Alaska Agr. Exp. Sta., Palmer, Alaska
99645 United States. **cultivar:** SOURDOUGH. **pedigree:**
Based on 36 collections made in various locations
throughout interior, western, and southcentral Alaska.
other id: CV-62. **source:** Crop Sci. 20(5):671 1980.
group: CSR-OTHER GRASSES. **other id:** W6 7094. **group:** W6.
remarks: Plant height 1.8m in dense clumps of leafy stems
produced from medium-sized rhizomes. Generally grows much
shorter on unfertilized disturbed sites or in dense
stands. Inflorescences are borne erect and by anthesis,
open into panicles of small spikelets. Seed is shed
readily when ripe, aided in distribution by presence of
long hairs on florets. Includes tetraploid ($2n=28$),
hexaploid, and octoploid plants. Adapted for inclusion in
planting mixes throughout mainland Alaska. Recommended
particularly for more harsh environments of tundra
locations where few cvs. are adapted. Perennial.
Cultivar. Seed.

PI 562652. *Deschampsia beringensis* Hulten POACEAE Bering hairgrass

Donated by: Ross, D.R., Alaska Plant Materials Center, HC 02 Box
7440, Palmer, Alaska 99645, United States. Received October 01,
1992.

origin: United States. **developed:** Wm. W. Mitchell..
origin institute: Alaska Agr. Exp. Sta., Alaska, Alaska
99645 United States. **cultivar:** NORCOAST. **pedigree:**
Bulk seed collections of Bering hairgrass from native
communities in two tideland flat areas in Cook Inlet
region of southcentral Alaska (ca. 61 deg. N). **other id:**
CV-99. **source:** Crop Sci. 25(4):708 1985. **group:**
CSR-OTHER GRASSES. **other id:** W6 11045. **group:** W6.
remarks: High yielding potential in several forage trials
at Palmer but subject to stand reduction under the
two-harvest system at this location. Ability to sustain
production under the cooler regime of Iceland suggests
may have application for forage use in northern coastal
or maritime situations where standard forage grasses are
marginally adapted. Perennial. Cultivar. Seed.

PI 562653. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Baenziger, P.S., Nebraska Agr. Exp. Sta., Dept. of
Agronomy, University of Nebraska, Lincoln, Nebraska 68583, United
States. Received September 25, 1992.

origin: United States. **developed:** P.S. Baenziger, C.J.
Peterson, D.R. Shelton, L.A. Nelson, J. Hatchett, D.
Mcvey, P. Nordquist, R. Elmore, J. Watkins. **origin**
institute: Nebraska Agric. Exp. Station/USDA-ARS, Dept.
of Agronomy, University of Nebraska, Lincoln, Nebraska
68583 United States. **origin institute id:** NE87615.
cultivar: VISTA. **pedigree:**
NE68513/NE68457//Centurk/3/Brule, F3. **remarks:** Chaff
white, awned semidwarf wheat. Shorter than Arapahoe and
Redland. Straw strength moderate. Moderate resistance to
leaf rust. Resistant to the Great Plains Biotype of
Hessian fly. Moderately resistant to stem rust.
Susceptible to soilborne mosaic virus. Winterhardiness
adequate for Nebraska growing conditions. Cultivar.
Seed.

PI 562654. *Sorghum laxiflorum* Bailey POACEAE

Donated by: Australian Tropical Field Crops, Genetic Resource
Center, P.O. Box 201, Biloela, Queensland 4715, Australia.
remarks: Received through G.H. Liang, Dept. of Agronomy, Kansas
State University, Manhattan, Kansas. Received August 31, 1992.

donor id: TRC 240424. **origin:** Australia. **collected:** May 20, 1976. **collector:** J.B. Hacker, CSIRO, Div. of Tropical Crops & Pastures, Brisbane, Queensland, Australia.. **collector id:** CQ 3232. **locality:** Kakadu, East Alligator River, Northern Territory. **latitude:** 12 deg. 27 min. S. **longitude:** 132 deg. 58 min. E. Wild. Seed.

PI 562655. *Sorghum stipoides* (Ewart & J. W. White) C. Gardner & C. E. Hubb. POACEAE

Donated by: Australian Tropical Field Crops, Genetic Resource Center, P.O. Box 201, Biloela, Queensland 4715, Australia.
remarks: Received through G.H. Liang, Dept. of Agronomy, Kansas State University, Manhattan, Kansas. Received August 31, 1992.

donor id: TRC 240423. **origin:** Australia. **collected:** May 07, 1977. **collector id:** CQ 1356. **locality:** Kimberley Research Station, Kununurra, Western Australia. **latitude:** 15 deg. 30 min. S. **longitude:** 128 deg. E. Wild. Seed.

PI 562656 to 562657. *Avena sativa* L. POACEAE Common oat

Donated by: Ohm, H.W., Purdue Agr. Exp. Sta., Dept. of Agronomy, Purdue University, 1150 Lilly Hall of Life Sci., West Lafayette, Indiana 47907-1150, United States; and Agricultural Research Service -- USDA, United States. Received September 25, 1992.

PI 562656 **origin:** United States. **developed:** H.W. Ohm. **origin institute:** Purdue Agr. Exp. Sta., Dept. of Agronomy, Purdue University, 1150 Lilly Hall of Life Sci., West Lafayette, Indiana 47907-1150 United States. **origin institute id:** P7941D7-10-15-96. **pedigree:** P7135A1-1-8-4/Lang//P74120B13-6/3/Lang/4/MO.06328//P74120B13-6/P73109B7-1-5-132-1. **remarks:** High yield potential. Consistently ranked near or at the top of performance tests. Similar to Noble for general plant type. Yield potential higher, test weight higher, heads one day earlier, plant height 7cm shorter, lodging resistance greater, resistance to barley yellow dwarf viruses (BYDV) higher, and has resistance to races Pc59, 264B, and Pc62 of *Puccinia coronata avenae* when compared to Noble. Spring Annual. Cultivar. Seed.

PI 562656 to 562657-continued

PI 562657 **origin:** United States. **developed:** H.W. Ohm. **origin institute:** Purdue Agr. Exp. Sta., Dept. of Agronomy, Purdue University, 1150 Lilly Hall of Life Sci., West Lafayette, Indiana 47907-1150 United States. **origin institute id:** P7971A1-15-3-6. **pedigree:** P74122A6-2-1/4/P74112A4-4-34/I11.75-1062/3/Lang/Mo06328//P74 120B13-6/P73109B7-5. **remarks:** Very good yield potential combined with resistance to BYDV, crown rust, and prevalent races of loose smut. Similar to Noble for general plant type. Yield potential, test weight, and groat protein percentage higher than Noble. Resistance to races Pc58, Pc59, Pc62, and 264B of *Puccinia coronata avenae*. Spring Annual. Cultivar. Seed.

PI 562658. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Ohm, H.W., Purdue Agr. Exp. Sta., Dept. of Agronomy, Purdue University, 1150 Lilly Hall of Life Sci., West Lafayette, Indiana 47907-1150, United States; and Agricultural Research Service -- USDA, United States. Received September 25, 1992.

origin: United States. **developed:** H.W. Ohm. **origin institute:** Purdue Agr. Exp. Sta., Dept. of Agronomy, Purdue University, 1150 Lilly Hall of Life Sci., West Lafayette, Indiana 47907-1150 United States. **origin institute id:** P811670A9-10-6-7-63. **pedigree:** Caldwell//Beau/Kavkaz. **remarks:** Similar to Caldwell for general plant type. Yield potential higher, heads 1-2 days later, 5cm shorter, straw stronger, and winter survival in Indiana higher when compared to Caldwell. Resistant to powdery mildew, soil borne mosaic, wheat spindle streak mosaic, and take-all. Has gene H5 for resistance to Hessian fly. Soft wheat milling and baking scores very good. Winter Annual. Breeding Material. Seed.

PI 562659 to 562688. *Cajanus cajan* (L.) Millsp. FABACEAE Pigeon-pea

Donated by: ICRISAT, Patancheru P.O., Andhra Pradesh 502 324, India. Received September 15, 1992.

PI 562659 **donor id:** 8094. **origin:** India. **other id:** ANM-449. **locality:** Barli, Bhagal Pur. **remarks:** Field Collection. Cultivated. Seed.

PI 562660 **donor id:** 10002. **origin:** India. **other id:** JM-3492. **locality:** 74km N of Kumali, Kottayam. **remarks:** Field Collection. Cultivated. Seed.

PI 562659 to 562688-continued

- PI 562661 **donor id:** 11289. **origin:** India. **other id:** ICWR-SEL-4769. **remarks:** Field Collection. Cultivated. Seed.
- PI 562662 **donor id:** 12149. **origin:** Tanzania. **other id:** PR-5543. **locality:** Dumila, Kilosa. **remarks:** Field Collection. Cultivated. Seed.
- PI 562663 **donor id:** 12176. **origin:** Malawi. **other id:** SAD-462. **locality:** Nyozeni. **remarks:** Field Collection. Cultivated. Seed.
- PI 562664 **donor id:** 12765. **origin:** Philippines. **other id:** PR-5302-4. **locality:** Tampugo, Tagudin, Ilocos Sur. **remarks:** Field Collection. Cultivated. Seed.
- PI 562665 **donor id:** 12766. **origin:** Philippines. **other id:** PR-5304-1. **locality:** Bauang, Sanfernado, La Union. **remarks:** Field Collection. Cultivated. Seed.
- PI 562666 **donor id:** 13055. **origin:** Kenya. **other id:** PRN-33. **locality:** Ilamba, Kitui. **remarks:** Field Collection. Cultivated. Seed.
- PI 562667 **donor id:** 13092. **origin:** Kenya. **other id:** PRN-113. **locality:** Kagio, Kirinyaga. **remarks:** Field Collection. Cultivated. Seed.
- PI 562668 **donor id:** 13096. **origin:** Kenya. **other id:** PRN-122. **locality:** Mutithi, Kirinyaga. **remarks:** Field Collection. Cultivated. Seed.
- PI 562669 **donor id:** 13097. **origin:** Kenya. **other id:** PRN-123. **locality:** Makutano, Kirinyaga. **remarks:** Field Collection. Cultivated. Seed.
- PI 562670 **donor id:** 13107. **origin:** Kenya. **other id:** PRN-141. **locality:** Chamoli, Machakos. **remarks:** Field Collection. Cultivated. Seed.
- PI 562671 **donor id:** 13127. **origin:** Kenya. **other id:** PRN-212. **locality:** Maasi, Machakos. **remarks:** Field Collection. Cultivated. Seed.
- PI 562672 **donor id:** 13143. **origin:** Kenya. **other id:** PRN-227. **locality:** Tawa, Machakos. **remarks:** Field Collection. Cultivated. Seed.
- PI 562673 **donor id:** 13146. **origin:** Kenya. **other id:** PRN-233. **locality:** Jani, Machakos. **remarks:** Field Collection. Cultivated. Seed.

PI 562659 to 562688-continued

- PI 562674 donor id: 13153. origin: Kenya. other id: PRN-240-2.
locality: Ngele, Machakos. remarks: Field Collection.
Cultivated. Seed.
- PI 562675 donor id: 13277. origin: Kenya. other id: PRN-256.
locality: Matiliku, Machakos. remarks: Field Collection.
Cultivated. Seed.
- PI 562676 donor id: 13278. origin: Kenya. other id: PRN-258-1.
locality: Monjani, Machakos. remarks: Field Collection.
Cultivated. Seed.
- PI 562677 donor id: 13326. origin: Malawi. other id: PR-6156.
locality: Kamowendo, Chiradzulu. remarks: Field
Collection. Cultivated. Seed.
- PI 562678 donor id: 13332. origin: Malawi. other id: PR-6166.
locality: Ngalawesa, Chiradzulu. remarks: Field
Collection. Cultivated. Seed.
- PI 562679 donor id: 13343. origin: Malawi. other id: PR-6176.
locality: Kantimbanya, Blantyre. remarks: Field
Collection. Cultivated. Seed.
- PI 562680 donor id: 13367. origin: Malawi. other id: PR-6202.
locality: Muthipo, Thyolo. remarks: Field Collection.
Cultivated. Seed.
- PI 562681 donor id: 13413. origin: Malawi. other id: PR-6243.
locality: Mpongila, Nsanje. remarks: Field Collection.
Cultivated. Seed.
- PI 562682 donor id: 13414. origin: Malawi. other id: PR-6244.
locality: Mkuche, Nsanje. remarks: Field Collection.
Cultivated. Seed.
- PI 562683 donor id: 13438. origin: Malawi. other id: PR-6271.
remarks: Field Collection. Cultivated. Seed.
- PI 562684 donor id: 13440. origin: Malawi. other id: PR-6272-2.
remarks: Field Collection. Cultivated. Seed.
- PI 562685 donor id: 13490. origin: Malawi. other id: PR-6320.
remarks: Field Collection. Cultivated. Seed.
- PI 562686 donor id: 13495. origin: Malawi. other id: PR-6324-1.
remarks: Field Collection. Cultivated. Seed.
- PI 562687 donor id: 13525. origin: Malawi. other id: PR-6333.
remarks: Field Collection. Cultivated. Seed.

PI 562659 to 562688-continued

PI 562688 **donor id:** 13619. **origin:** Malawi. **other id:** PR-6337.
remarks: Field Collection. Cultivated. Seed.

PI 562689. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Henson, R.A., EMBRAPA/CNPAP, EPAMIG, UFV, ESAL, Pesagro, Goiania, Goias 74001-970, Brazil. **remarks:** Ouro Negro Common Bean. Received October 13, 1992.

origin: Brazil. **developed:** R.A. Henson, P.A.A Pereira, J.E.S. Carneiro, F.A. Bliss. **origin institute:** EMBRAPA/CNPAP, EPAMIG, UFV, ESAL, Pesagro, Goiania, Goias 74001-970 Brazil. **cultivar:** OURO NEGRO. **pedigree:** May have been from genetic mixture. Introduced to Brazil from Honduras by CIAT. **other id:** CV-105. **group:** CSR-OTHER LEGUMES. **other id:** CNF 0480. **remarks:** Growth habit semi-prostrate to prostrate. Intermediate between type II & type III, with growth cycle of 85 days. Seeds dull black, similar to but larger than ICA PIJAO. 50 seed wt. 11.3 under Brazilian condition. Res. to Race alfa- Brasil of antracnose (*Colletotrichum lindemuthianum*). Mod. level of res. to bean rust (*Uromyces appendiculatus*). Based on comparisons using total accumulated shoot N, 15N isotope dilution, acetylene reduction activity, nodule mass & grain yield of plants grown on soil where N is limiting, fixes more atmospheric N₂ than commercial cultivars in Brazil. Annual. Cultivar. Seed.

PI 562690. *Cynodon nlemfuensis* Vanderyst var. *nlemfuensis* POACEAE

Donated by: Mislevy, P., Florida Agr. Exp. Sta., University of Florida, Ona, Florida 33865, United States; and Agricultural Research Service -- USDA; and Puerto Rico Agr. Exp. Sta.. **remarks:** Florico stargrass. Received October 13, 1992.

origin: United States. **developed:** P. Mislevy, W.F. Brown, R. Caro-Costas, J. Vicente-Chandler, L.S. Dunavin, D.W. Hall, R.S. Kalmbacher, A.J. Overman. **origin institute:** Florida Agr. Exp. Sta., University of Florida, Box 62, Ona, Florida 33865 United States. **source history:** Introduced into Puerto Rico in 1957 from Kenya, Africa. In 1972, several ramets were brought from Puerto Rico to the Agricultural Research and Education Center Ona, Florida. **cultivar:** FLORICO. **other id:** CV-154. **group:** CSR-OTHER GRASSES. **other id:** Puerto Rico PI 2341. **restricted:** CSR. **remarks:** Stoloniferous, tufted perennial grass with erect stems, which lack rhizomes. Leaf sheaths scattered to dense pubescence. Ligules consist of a membrane to 0.8mm long, fringed with pubescence to 0.1mm long. Leaf blades 2-6mm wide and 7-23cm long, stiff with scattered pubescence on both sides. Inflorescence and vegetation distinctly purplish. Few if any seeds are produced and propagation is entirely vegetative. Perennial. Cultivar. Plant.

PI 562691. *Cynodon nlemfuensis* Vanderyst var. *nlemfuensis* POACEAE

Donated by: Mislevy, P., Florida Agr. Exp. Sta., University of Florida, Ona, Florida 33865, United States; and Agricultural Research Service -- USDA. **remarks:** Florona stargrass. Received October 13, 1992.

origin: United States. **developed:** P. Mislevy, W.F. Brown, L.S. Dunavin, D.W. Hall, R.S. Kalmbacher, A.J. Overman, O.C. Ruelke, R.M. Sonoda. **origin institute:** Florida Agr. Exp. Sta., University of Florida, Box 62, Ona, Florida 33865 United States. **source history:** Found in 1973 growing in a 'Pensacola' bahiagrass (*Paspalum notatum* Fluegge) pasture at the Agricultural Research and Education Center Ona, Florida. **cultivar:** FLORONA. **other id:** CV-155. **group:** CSR-OTHER GRASSES. **restricted:** CSR. **remarks:** Long lived, persistent perennial grass adapted to tropical & subtropical regions. Stoloniferous, tufted grass with erect stems which lack rhizomes. Stems 1.0-2.8mm in diam. & 0.6- 0.9m tall. Leaf sheaths glabrous, leaf blades 2-5mm wide & 5-12cm long, stiff, & glabrous on lower surface with scattered pubescence on upper surface. Few if any seeds produced. No information on background of grass; possibly a contaminate with the introduction of other species. Perennial. Cultivar. Plant.

PI 562692. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Whittemore, A.T., USDA-ARS, Georgia Station, University of Georgia, Griffin, Georgia 30223-1797, United States. Received May 18, 1992.

origin: Kazakhstan. **cultivar:** SWALLOWTAIL. **collected:** July 20, 1991. **collector:** A.T. Whittemore. **other id:** Grif 1247. **locality:** Private vendor, Alma Ata market. **remarks:** Referred to as Bulgarian pepper. Cultivar. Seed.

PI 562693. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: Whittemore, A.T., USDA-ARS, Georgia Station, University of Georgia, Griffin, Georgia 30223-1797, United States. Received May 18, 1992.

origin: Kazakhstan. **cultivar:** DNAPROPETRAVSKY 69. **collected:** July 1991. **collector:** A.T. Whittemore. **locality:** Kazakh Academy of Sciences, Alma Ata. **remarks:** Race Caffarum. Cultivar. Seed.

PI 562694. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Minor, H.C., Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri 65211, United States; and Nebraska Agr. Exp. Sta.. **remarks:** MO/PSD-0259 Soybean Germplasm. Received October 22, 1992.

origin: United States. **developed:** H.C. Minor, E.A. Brown, B. Doupnik Jr., R.W. Elmore, M.S. Zimmerman. **origin institute:** Missouri Agr. Exp. Sta., University of Missouri, 214 Waters Hall, Columbia, Missouri 65211 United States. **cultivar:** MO/PSD-0259. **pedigree:** PI 417479 x Merschman Dallas. **other id:** GP-153. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Improved source of resistance to Phomopsis seed decay (PSD) caused by *Diaporthe phaseolorum* var. *sojae*, *D. phaseolorum* var. *caulivora*, and *Phomopsis longicolla*. Resistance to PSD similar to donor parent, PI 417479 with yield greater and shattering less. Short-statured with determinate growth habit. Flowers purple. Pubescence gray. Pod wells brown. Seed yellow with dull luster and buff hilum color. Group IV maturity. Spring Annual. Breeding Material. Seed.

PI 562695. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Bouton, J.H., Georgia Agr. Exp. Sta., University of Georgia, Athens, Georgia 30602, United States; and Soil Conservation Service - USDA. **remarks:** Georgia 5 Tall Fescue. Received October 22, 1992.

origin: United States. **developed:** J.H. Bouton, R.N. Gates, G.M. Hill, M. Owsley, D.T. Wood. **origin institute:** Georgia Agr. Exp. Sta., University of Georgia, Agronomy Department, Athens, Georgia 30602 United States. **cultivar:** GEORGIA 5. **pedigree:** 5 clone synthetic originating from 21 clones collected by USDA-SCS from stress areas of eastern US and maintained at Americus PMC, GA for approx. 10 yrs. In 1977, best surviving plants polycrossed. 5 parental clones then selected. **other id:** GA-5, GA-5+, GA-5-ET, GA-5-FT. **other id:** PVP 9300080. **source:** Pending. **group:** PVPO. **other id:** CV-53. **group:** CSR-FESCUE. **restricted:** CSR. **patent:** PVPO. **remarks:** Superior forage yield and persistence in clipped plots in SE Coastal Plain when tested against AU-Triumph and Kentucky 31, especially when mixed with warm season grasses & grazed. Provides supplemental forage for winter maintenance grazing in these mixtures. Turf performance and quality similar to Kentucky 31 for non-stress environments, but is expected to provide more superior turf than Kentucky 31 in areas of high temperature and water stress. Being released to replace Kentucky 31 as winter maintenance pasture in warm season grasses and as general purpose turfgrass in transition zone. Perennial. Cultivar. Seed.

PI 562696. *Phaseolus vulgaris* L. FABACEAE Bean

Donated by: Taylor, F.J., 1935 Adair Drive, Florence, South Carolina 29501, United States. Received February 02, 1993.

origin: United States. **cultivar:** LOUISIANA PURPLE POD. **other id:** W6 11164. **group:** W6. Cultivar. Seed.

PI 562697. *Stylosanthes guianensis* (Aublet) Sw. FABACEAE Pencilflower

Donated by: Brolmann, J.B., Agr. Res. and Ed. Ctr., Inst. of Food & Agr. Sci., Univ. of Florida, Fort Pierce, Florida 33454, United States. Received November 03, 1992.

origin: United States. **developed:** J.B. Brolmann. **origin institute:** Agr. Res. and Ed. Ctr., Inst. of Food & Agr. Sci., Univ. of Florida, Fort Pierce, Florida 33454 United States. **cultivar:** SAVANNA. **pedigree:** Natural sel. involving 22 *S. guianensis*. **other id:** GP-63. **source:** Crop Sci. 27(1):153 1987. **group:** CSR-OTHER LEGUMES. **other id:** FP-8400. **remarks:** Good seed producer, yielding over 200 pounds per acre. Perennial, except where exposed to frosts or freezing, so will grow as an annual in northern Florida. Average crude protein content and in vitro organic matter digestibility 21 and 70%, respectively. Good tolerance to anthracnose (*Colletotrichum gloeosporioides*). Grazed by beef cattle and used as hay. Breeding Material. Seed.

PI 562698. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Whittemore, A.T., USDA-ARS, Georgia Station, University of Georgia, Griffin, Georgia 30223-1797, United States. Received May 18, 1992.

origin: Kazakhstan. **cultivar:** PROGRESS. **collected:** July 1991. **collector:** A.T. Whittemore. **locality:** Kazakh Academy of Sciences, Alma Ata. Cultivar. Seed.

PI 562699. *Cynodon* sp. POACEAE Bermudagrass

Donated by: Burton, G.W., Agricultural Research Service -- USDA, Georgia Coastal Plain Exp. Sta., Tifton, Georgia 31793, United States; and Georgia Agr. Exp. Sta., United States. **remarks:** Tifton 85 Bermudagrass. Received November 09, 1992.

origin: United States. **developed:** G.W. Burton, R.N. Gates, G.M. Hill. **origin institute:** Agricultural Research Service -- USDA, Georgia Coastal Plain Exp. Sta., Box 748, Tifton, Georgia 31793 United States. **cultivar:** TIFTON 85. **pedigree:** Sterile F1 hybrid ($2n = 5x = 45$) between South African PI 290884 and Tifton 68, a highly digestible F1 ($2n = 60$) between Kenya PIs 255450 and 293606. **other id:** CV-20. **group:** CSR-BERMUDAGRASS. **restricted:** CSR. **remarks:** Plants tall (50cm), large, coarse stemmed, very dark green, with large rhizomes and rapidly spreading stolons. In two clipping tests, produced 26% more dry matter that was 11% more digestible and 10% more succulent than Coastal bermudagrass. Grazed 3 years, produced 47% more LWG/ha than Tifton 78 that produced 36% more than Coastal in an earlier 3-year test. Perennial. Cultivar. Plant.

PI 562700. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Busch, R., Agricultural Research Service -- USDA, University of Minnesota, St. Paul, Minnesota 55108, United States; and Minnesota Agr. Exp. Sta.. **remarks:** NORM Wheat. Received October 01, 1992.

origin: United States. **developed:** R. Busch, D. McVey, J. Wiersma, D. Warnes, R. Wilcoxson, G. Hareland. **origin institute:** Minnesota Agr. Exp. Sta., University of Minnesota, St. Paul, Minnesota 55108 United States. **cultivar:** NORM. **pedigree:** MN73167/MN81070. **other id:** MN85324. **other id:** CV-784. **group:** CSR-WHEAT. **other id:** PVP 9300073. **source:** Pending. **group:** PVPO. **restricted:** CSR. **patent:** PVPO. **remarks:** Hard red spring wheat. Stiff-strawed, semidwarf with medium maturity. High yielding with wide adaptation in the upper-midwest. Medium protein content with acceptable milling and baking qualities. Resistant to prevalent races of stem and leaf rust. Moderately susceptible to loose smut. Glumes white, short, narrow with square shoulder and acuminate beak. Spike awned, mid-dense and tapering. Kernel red, elliptical to ovate, midsize with rounded cheeks and a narrow and mid-deep crease. Brush has no collar and medium in length. Spring Annual. Cultivar. Seed.

PI 562701 to 563509. *Sorghum bicolor* (L.) Moench POACEAE

Donated by: ICRISAT, Patancheru, Andhra Pradesh 502 324, India. Received October 09, 1992.

PI 562701 **origin:** Mexico. **origin institute id:** IS 5. **cultivar:** ARACOKA 27. Cultivar. Seed.

PI 562702 **origin:** Mexico. **origin institute id:** IS 71. **cultivar:** DOUBLE DWARF FETERITA. **other id:** SA 5883-5. Cultivar. Seed.

PI 562703 **origin:** Mexico. **origin institute id:** IS 77. **cultivar:** FETERITA. **other id:** FC 811. Cultivar. Seed.

PI 562704 **origin:** United States. **origin institute id:** IS 116. **cultivar:** DOUBLE DWARF EARLY HEGARI. **other id:** SA 6645-67-2-2. Cultivar. Seed.

PI 562705 **origin:** United States. **origin institute id:** IS 147. **cultivar:** DOUBLE DWARF WHITE HEGARI. **other id:** SA 5825-1-1. Cultivar. Seed.

PI 562706 **origin:** United States. **origin institute id:** IS 167. **other id:** 6645-2 IR. **remarks:** Double dwarf white seed. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 562707 **origin:** UNKNOWN. **origin institute id:** IS 267.
Cultivated. Seed.
- PI 562708 **origin:** China. **origin institute id:** IS 329. Cultivated.
Seed.
- PI 562709 **origin:** UNKNOWN. **origin institute id:** IS 330.
Cultivated. Seed.
- PI 562710 **origin:** United States. **origin institute id:** IS 364.
other id: CI 480. **remarks:** Early EH. milo. Cultivated.
Seed.
- PI 562711 **origin:** United States. **origin institute id:** IS 475.
cultivar: COMBINE SHALLU. Cultivar. Seed.
- PI 562712 **origin:** Mexico. **origin institute id:** IS 514. **cultivar:**
RFYE 2-5-1-2. Cultivar. Seed.
- PI 562713 **origin:** Mexico. **origin institute id:** IS 521. **cultivar:**
RFYE 7707-3. Cultivar. Seed.
- PI 562714 **origin:** Mexico. **origin institute id:** IS 523. **cultivar:**
RFYE 1400-3-3-2. Cultivar. Seed.
- PI 562715 **origin:** United States. **origin institute id:** IS 530.
cultivar: KAURA. **remarks:** Very intense yellow.
Cultivar. Seed.
- PI 562716 **origin:** United States. **origin institute id:** IS 688.
cultivar: HONEY NO. 2. **other id:** SA 1759. Cultivar.
Seed.
- PI 562717 **origin:** United States. **origin institute id:** IS 697.
cultivar: PERENNIAL SWEET SUDAN. **other id:** SA
6459-1-17-1-1. Cultivar. Seed.
- PI 562718 **origin:** United States. **origin institute id:** IS 705.
cultivar: SWEET SUDAN. Cultivar. Seed.
- PI 562719 **origin:** United States. **origin institute id:** IS 720.
cultivar: PIPER. Cultivar. Seed.
- PI 562720 **origin:** United States. **origin institute id:** IS 722.
cultivar: GREEN LEAF SUDAN GRASS. Cultivar. Seed.
- PI 562721 **origin:** UNKNOWN. **origin institute id:** IS 777.
Cultivated. Seed.
- PI 562722 **origin:** United States. **origin institute id:** IS 801.
cultivar: SHALLU GRASS 6566-4-2-1R-2. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562723 **origin:** United States. **origin institute id:** IS 805.
other id: MS 129. **locality:** Mandan. Cultivated. Seed.
- PI 562724 **origin:** United States. **origin institute id:** IS 806.
other id: MS 132. Cultivated. Seed.
- PI 562725 **origin:** United States. **origin institute id:** IS 810.
other id: MS 314. Cultivated. Seed.
- PI 562726 **origin:** UNKNOWN. **origin institute id:** IS 861. **cultivar:**
KAFARITA NO. 9. **other id:** SA 335. Cultivar. Seed.
- PI 562727 **origin:** United States. **origin institute id:** IS 880.
cultivar: EXTRA EARLY PINK. Cultivar. Seed.
- PI 562728 **origin:** United States. **origin institute id:** IS 893.
cultivar: DAREST. Cultivar. Seed.
- PI 562729 **origin:** United States. **origin institute id:** IS 898.
cultivar: TUNIS GRAIN. **other id:** SA 6223. **locality:**
Lubbock. Cultivar. Seed.
- PI 562730 **origin:** United States. **origin institute id:** IS 900.
cultivar: GRAIN GRASS 3A. **locality:** Lubbock. Cultivar.
Seed.
- PI 562731 **origin:** Mexico. **origin institute id:** IS 902. **cultivar:**
LGV 79. Cultivar. Seed.
- PI 562732 **origin:** Mexico. **origin institute id:** IS 903. **cultivar:**
LGV 88-1 (DWARF). Cultivar. Seed.
- PI 562733 **origin:** Mexico. **origin institute id:** IS 904. **cultivar:**
LGV 88-1 (TALL). Cultivar. Seed.
- PI 562734 **origin:** Sudan. **origin institute id:** IS 918. **cultivar:**
DURRA EL. SABRI. **other id:** FC 4664. Cultivar. Seed.
- PI 562735 **origin:** Sudan. **origin institute id:** IS 921. **cultivar:**
FETERITA SHENDI. **other id:** FC 4693. Cultivar. Seed.
- PI 562736 **origin:** Sudan. **origin institute id:** IS 941. **cultivar:**
ATAMINE. **other id:** FC 4561. Cultivar. Seed.
- PI 562737 **origin:** United States. **origin institute id:** IS 963.
cultivar: SORGOBLANC VO 83F DETAZA. **other id:** SA 1995.
locality: Chillicothe. Cultivar. Seed.
- PI 562738 **origin:** India. **origin institute id:** IS 1009. **cultivar:**
PARBHANI NISAM. **other id:** SA 6474. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562739 **origin:** India. **origin institute id:** IS 1035. **other id:** IC 3527. **locality:** Bhuwa. Cultivated. Seed.
- PI 562740 **origin:** India. **origin institute id:** IS 1046. **cultivar:** NANDYAL. **other id:** IC 4314. **locality:** Parbhani. Cultivar. Seed.
- PI 562741 **origin:** Tanzania. **origin institute id:** IS 1172. **cultivar:** NTOMA. **other id:** AS 6348. Cultivar. Seed.
- PI 562742 **origin:** India. **origin institute id:** IS 1181. **cultivar:** MADHUCHOLAM. **other id:** AS 2417. **locality:** Dharmapuri. Cultivar. Seed.
- PI 562743 **origin:** Myanmar. **origin institute id:** IS 1194. **cultivar:** SOLLARNMYO BURMA. **other id:** AS 6184. Cultivar. Seed.
- PI 562744 **origin:** China. **origin institute id:** IS 1233. **cultivar:** KAOLIANG. Cultivar. Seed.
- PI 562745 **origin:** India. **origin institute id:** IS 1556. **pedigree:** White X Yellow. **other id:** AS 2157. Cultivated. Seed.
- PI 562746 **origin:** United States. **origin institute id:** IS 1835. **cultivar:** DEKLAB 50A. **remarks:** Exp No 23. Cultivar. Seed.
- PI 562747 **origin:** United States. **origin institute id:** IS 1850. **cultivar:** FORGE L 924. **locality:** Phoenix. Cultivar. Seed.
- PI 562748 **origin:** UNKNOWN. **origin institute id:** IS 1881. **cultivar:** OK 612. Cultivar. Seed.
- PI 562749 **origin:** United States. **origin institute id:** IS 2033. **other id:** SA 8292-5 (DD). **locality:** Lubbock. Cultivated. Seed.
- PI 562750 **origin:** United States. **origin institute id:** IS 2037. **other id:** SA 8226-1 (D). **locality:** Lubbock. Cultivated. Seed.
- PI 562751 **origin:** India. **origin institute id:** IS 2090. Cultivated. Seed.
- PI 562752 **origin:** India. **origin institute id:** IS 2098. Cultivated. Seed.
- PI 562753 **origin:** India. **origin institute id:** IS 2176. **cultivar:** MALDANDI JOWAR. **other id:** M 47-3. **locality:** Bombay. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562754 **origin:** India. **origin institute id:** IS 2203. **cultivar:** LOCAL JOWAR. **other id:** IC 6181. Cultivar. Seed.
- PI 562755 **origin:** United States. **origin institute id:** IS 2212. **other id:** 6308. **locality:** Lincoln. Cultivated. Seed.
- PI 562756 **origin:** United States. **origin institute id:** IS 2216. **other id:** 6319. **locality:** Lincoln. Cultivated. Seed.
- PI 562757 **origin:** United States. **origin institute id:** IS 2218. **other id:** 6321. **locality:** Lincoln. Cultivated. Seed.
- PI 562758 **origin:** United States. **origin institute id:** IS 2269. **cultivar:** BASUTO RED Q2-1-29. **other id:** SA 1850. Cultivar. Seed.
- PI 562759 **origin:** India. **origin institute id:** IS 2644. **cultivar:** GM 1-5. **locality:** Bailhongal. Cultivar. Seed.
- PI 562760 **origin:** Italy. **origin institute id:** IS 2883. **other id:** FAO 8482. **other id:** S 50. Cultivated. Seed.
- PI 562761 **origin:** United States. **origin institute id:** IS 2916. **cultivar:** DOUBLE DWARF WHITE FETERITA. **other id:** SA 6649-8-5-1-10-5. Cultivar. Seed.
- PI 562762 **origin:** United States. **origin institute id:** IS 2931. **cultivar:** DOUBLE DWARF YELLOW ENDOSPERM HEGARI. Cultivar. Seed.
- PI 562763 **origin:** Ghana. **origin institute id:** IS 3174. **cultivar:** BULIFELIGA. **other id:** A 122. Cultivar. Seed.
- PI 562764 **origin:** United States. **origin institute id:** IS 3186. **cultivar:** PURDUE 81115-1. Cultivar. Seed.
- PI 562765 **origin:** United States. **origin institute id:** IS 3271. **cultivar:** PURDUE 81346 OP. Cultivar. Seed.
- PI 562766 **origin:** United States. **origin institute id:** IS 3280. **cultivar:** PURDUE 81364 OP. Cultivar. Seed.
- PI 562767 **origin:** United States. **origin institute id:** IS 3335. **cultivar:** PURDUE 81528 OP. Cultivar. Seed.
- PI 562768 **origin:** United States. **origin institute id:** IS 3342. **cultivar:** PURDUE 81540. **locality:** Purdue University, Lafayette. Cultivar. Seed.
- PI 562769 **origin:** United States. **origin institute id:** IS 3365. **cultivar:** PURDUE 81659-2. **locality:** Purdue University, Lafayette. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562770 **origin:** China. **origin institute id:** IS 3388. **cultivar:** TAHWANGKE. Cultivar. Seed.
- PI 562771 **origin:** Botswana. **origin institute id:** IS 3401. **cultivar:** LETHE BYANE 17. **locality:** Mahalapye. Cultivar. Seed.
- PI 562772 **origin:** Sudan. **origin institute id:** IS 3453. **cultivar:** ATONG. **other id:** 156. **locality:** Tozi. Cultivar. Seed.
- PI 562773 **origin:** Sudan. **origin institute id:** IS 3475. **cultivar:** DINDRAWI. Cultivar. Seed.
- PI 562774 **origin:** Sudan. **origin institute id:** IS 3567. **cultivar:** WAD EEL GUSSAIR. **other id:** 509. **locality:** Tozi. Cultivar. Seed.
- PI 562775 **origin:** Sudan. **origin institute id:** IS 3591. **cultivar:** FESHEIKH. **other id:** 4. **locality:** Tozi. Cultivar. Seed.
- PI 562776 **origin:** United States. **origin institute id:** IS 3672. **remarks:** Double dwarf yellow seed. Cultivated. Seed.
- PI 562777 **origin:** United States. **origin institute id:** IS 3686. **other id:** SA 8026-2-3-1-1. **locality:** Lubbock. **remarks:** Yellow double dwarf early compact. Cultivated. Seed.
- PI 562778 **origin:** United States. **origin institute id:** IS 3797. **other id:** SA 7525-27-1-2-2-2-1. **remarks:** Yellow endosperm kafir type. Cultivated. Seed.
- PI 562779 **origin:** Mali. **origin institute id:** IS 3850. **cultivar:** YOWSSO KALAFUOLO. **locality:** Bomako. Cultivar. Seed.
- PI 562780 **origin:** Mali. **origin institute id:** IS 3851. **cultivar:** YOWSSO ZANDIO KALAGNIGUE. **locality:** Bomako. Cultivar. Seed.
- PI 562781 **origin:** Mali. **origin institute id:** IS 3869. **other id:** 53-33. **locality:** Bomako. Cultivated. Seed.
- PI 562782 **origin:** Mali. **origin institute id:** IS 3880. **other id:** H 610. **locality:** Bomako. Cultivated. Seed.
- PI 562783 **origin:** Mali. **origin institute id:** IS 3883. **other id:** SP 1. Cultivated. Seed.
- PI 562784 **origin:** India. **origin institute id:** IS 3973. **cultivar:** JOWAR KALA. **other id:** IC 9184. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562785 **origin:** India. **origin institute id:** IS 4009. **cultivar:** CHARAULA. **locality:** Rohtak. Cultivar. Seed.
- PI 562786 **origin:** India. **origin institute id:** IS 4030. **cultivar:** CHUNDIA. **locality:** Jaipur. Cultivar. Seed.
- PI 562787 **origin:** India. **origin institute id:** IS 4176. **cultivar:** RAJAITHAR. **locality:** Kota. Cultivar. Seed.
- PI 562788 **origin:** India. **origin institute id:** IS 4287. **cultivar:** JHALLAR. **locality:** Betul. Cultivar. Seed.
- PI 562789 **origin:** India. **origin institute id:** IS 4337. **cultivar:** CHATKULA SINAWAL. Cultivar. Seed.
- PI 562790 **origin:** India. **origin institute id:** IS 4365. **cultivar:** PEELA BEDRA UTWAY. **locality:** Hajinagar. Cultivar. Seed.
- PI 562791 **origin:** India. **origin institute id:** IS 4392. **cultivar:** LAL BOORA BELAN AMBACHA. **locality:** Indore. Cultivar. Seed.
- PI 562792 **origin:** India. **origin institute id:** IS 4428. **cultivar:** SAFED BANDHEL KAITHA. **locality:** Ujjain. Cultivar. Seed.
- PI 562793 **origin:** India. **origin institute id:** IS 4457. **cultivar:** KALA BOORA JAMUNIA. **locality:** Mandsaur. Cultivar. Seed.
- PI 562794 **origin:** India. **origin institute id:** IS 4458. **cultivar:** TELIGHOOGAR JAMUNIA. **locality:** Mandsaur. Cultivar. Seed.
- PI 562795 **origin:** India. **origin institute id:** IS 4529. **cultivar:** BAGRI. Cultivar. Seed.
- PI 562796 **origin:** India. **origin institute id:** IS 4534. **cultivar:** LATURI RABI NUGAON. Cultivar. Seed.
- PI 562797 **origin:** India. **origin institute id:** IS 4583. **cultivar:** KHARIF GUDGI DWARF. **other id:** AS 4176. Cultivar. Seed.
- PI 562798 **origin:** India. **origin institute id:** IS 4601. **cultivar:** SHIVALA DEGLOOR. Cultivar. Seed.
- PI 562799 **origin:** India. **origin institute id:** IS 4603. **cultivar:** DUKRI DEGLOOR. Cultivar. Seed.
- PI 562800 **origin:** India. **origin institute id:** IS 4619. **cultivar:** DAGRI LAKHI. Cultivar. Seed.

PI 562701 to 563509-continued

PI 562801	origin: India. origin institute id: IS 4624. cultivar: SHERKHAND NILANGA. Cultivar. Seed.
PI 562802	origin: India. origin institute id: IS 4629. cultivar: MALDANDI PARANDA. Cultivar. Seed.
PI 562803	origin: India. origin institute id: IS 4636. cultivar: GILI WAKADI. Cultivar. Seed.
PI 562804	origin: India. origin institute id: IS 4649. cultivar: HARNI JOGRI SAYYAD WARWAD. Cultivar. Seed.
PI 562805	origin: India. origin institute id: IS 4653. cultivar: DAGRI DEVGAON. Cultivar. Seed.
PI 562806	origin: India. origin institute id: IS 4661. cultivar: MALDANDI MANORAP. Cultivar. Seed.
PI 562807	origin: India. origin institute id: IS 4675. cultivar: DAGRI SHERDE NSATARA. Cultivar. Seed.
PI 562808	origin: India. origin institute id: IS 4688. cultivar: KALGONDI HABKANGALE. Cultivar. Seed.
PI 562809	origin: India. origin institute id: IS 4689. cultivar: TAMAR GUNDI. Cultivar. Seed.
PI 562810	origin: India. origin institute id: IS 4693. cultivar: MADAGILI HATHKANGLE. Cultivar. Seed.
PI 562811	origin: India. origin institute id: IS 4706. cultivar: DAGRI LAVLE. Cultivar. Seed.
PI 562812	origin: India. origin institute id: IS 4723. cultivar: SAMLA. locality: Surendranagar. Cultivar. Seed.
PI 562813	origin: India. origin institute id: IS 4746. cultivar: DESI TARGADHIA. locality: Rajkot. Cultivar. Seed.
PI 562814	origin: India. origin institute id: IS 4750. cultivar: WAGADI TRAMBA. locality: Rajkot. Cultivar. Seed.
PI 562815	origin: India. origin institute id: IS 4766. cultivar: MOTHU KHANRI. locality: Jamnagar. Cultivar. Seed.
PI 562816	origin: India. origin institute id: IS 4793. cultivar: DESI LOCAL KERIACHA. locality: Amreli. Cultivar. Seed.
PI 562817	origin: India. origin institute id: IS 4807. cultivar: KAUNOOR GUGLI PHULSAR. locality: Bhavnagar. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562818 origin: India. origin institute id: IS 4812. cultivar: MOVADA SAMADIYA. locality: Kaira. Cultivar. Seed.
- PI 562819 origin: India. origin institute id: IS 4823. cultivar: DHANDOLA. locality: Baroda. Cultivar. Seed.
- PI 562820 origin: India. origin institute id: IS 4825. cultivar: GOTRI. locality: Baroda. Cultivar. Seed.
- PI 562821 origin: India. origin institute id: IS 4842. cultivar: SONLA KHARA. locality: Surat. remarks: Yellow type. Cultivar. Seed.
- PI 562822 origin: India. origin institute id: IS 4847. cultivar: VANI MANDROY. locality: Surat. Cultivar. Seed.
- PI 562823 origin: India. origin institute id: IS 4867. cultivar: DALGADH B.K.. locality: Palampur. Cultivar. Seed.
- PI 562824 origin: India. origin institute id: IS 4896. cultivar: SATPANI SHIDPUR. locality: West Khandesh. Cultivar. Seed.
- PI 562825 origin: India. origin institute id: IS 4920. cultivar: KHARIF MAWI ODAVAD. locality: East Khandesh. Cultivar. Seed.
- PI 562826 origin: India. origin institute id: IS 4947. cultivar: NILWA NANDRAKOLI. locality: Buldana. Cultivar. Seed.
- PI 562827 origin: India. origin institute id: IS 4952. cultivar: VANI HIGNA. locality: Buldana. Cultivar. Seed.
- PI 562828 origin: India. origin institute id: IS 4960. cultivar: VANI SHE LAPUR. locality: Buldana. Cultivar. Seed.
- PI 562829 origin: India. origin institute id: IS 4969. cultivar: CHIKKALIKHURD. locality: East Khandesh. Cultivar. Seed.
- PI 562830 origin: India. origin institute id: IS 4972. cultivar: JOWARY CHIKNI KHURD. locality: Buldana. Cultivar. Seed.
- PI 562831 origin: India. origin institute id: IS 4975. cultivar: CHANDOL PALSISUPO. locality: Buldana. Cultivar. Seed.
- PI 562832 origin: India. origin institute id: IS 4990. cultivar: VANI KARATWADI. locality: Akola. Cultivar. Seed.
- PI 562833 origin: India. origin institute id: IS 5011. cultivar: GANERI. locality: Amaravati. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562834 **origin:** India. **origin institute id:** IS 5021. **cultivar:** NATURA MAHAGOOTI. **locality:** Yeotmal. Cultivar. Seed.
- PI 562835 **origin:** India. **origin institute id:** IS 5052. **cultivar:** GOOSENECK KONKADALU AHERI. **locality:** Chanda. Cultivar. Seed.
- PI 562836 **origin:** India. **origin institute id:** IS 5060. **cultivar:** JOWARI. **locality:** Chanda. Cultivar. Seed.
- PI 562837 **origin:** India. **origin institute id:** IS 5078. **cultivar:** TELLA JONNA. **locality:** Kurnool. Cultivar. Seed.
- PI 562838 **origin:** India. **origin institute id:** IS 5088. **cultivar:** HUNGARI. **locality:** Anantapur. Cultivar. Seed.
- PI 562839 **origin:** India. **origin institute id:** IS 5090. **cultivar:** TELLA JONNA. **locality:** Anantapur. Cultivar. Seed.
- PI 562840 **origin:** India. **origin institute id:** IS 5116. **cultivar:** JONNA MADANAPALLI. **locality:** Chittoor. Cultivar. Seed.
- PI 562841 **origin:** India. **origin institute id:** IS 5288. **cultivar:** MUDDA PATCHA JONNA. **locality:** Medak. Cultivar. Seed.
- PI 562842 **origin:** India. **origin institute id:** IS 5316. **cultivar:** JHANJHARALA SINAKHAMAN. **locality:** Bolangir. Cultivar. Seed.
- PI 562843 **origin:** India. **origin institute id:** IS 5376. **cultivar:** PESI MANJI CHOLAM. **locality:** Coimbatore. Cultivar. Seed.
- PI 562844 **origin:** India. **origin institute id:** IS 5385. **cultivar:** KARUVALUR. **locality:** Coimbatore. Cultivar. Seed.
- PI 562845 **origin:** India. **origin institute id:** IS 5390. **cultivar:** VELLAI CHOLAM. **locality:** Salem. Cultivar. Seed.
- PI 562846 **origin:** India. **origin institute id:** IS 5399. **cultivar:** KAKI JONNA CHOLAM. **locality:** Krishnagiri. Cultivar. Seed.
- PI 562847 **origin:** India. **origin institute id:** IS 5425. **cultivar:** SEN CHOLAM. **locality:** South Tiruchi. Cultivar. Seed.
- PI 562848 **origin:** India. **origin institute id:** IS 5494. **cultivar:** IBHANI JOLA. **locality:** Maudya. Cultivar. Seed.
- PI 562849 **origin:** India. **origin institute id:** IS 5508. **cultivar:** BILI JOLA. **locality:** Tumkur. Cultivar. Seed.

PI 562701 to 563509-continued

PI 562850 **origin:** India. **origin institute id:** IS 5551. **cultivar:** BILI JOLA. **locality:** Raichur. Cultivar. Seed.

PI 562851 **origin:** India. **origin institute id:** IS 5570. **cultivar:** HASARU JOLA. **locality:** Raichur. Cultivar. Seed.

PI 562852 **origin:** India. **origin institute id:** IS 5582. **cultivar:** HASSARU JOLA. **locality:** Bidar. Cultivar. Seed.

PI 562853 **origin:** India. **origin institute id:** IS 5589. **cultivar:** GUND JOLA. **locality:** Gulbarga. Cultivar. Seed.

PI 562854 **origin:** India. **origin institute id:** IS 5593. **cultivar:** GUND JOLA. **locality:** Gulbarga. Cultivar. Seed.

PI 562855 **origin:** India. **origin institute id:** IS 5635. **cultivar:** MARIANGARI JOLA. **locality:** Bijapur. Cultivar. Seed.

PI 562856 **origin:** India. **origin institute id:** IS 5659. **cultivar:** BILI GUNI JOLA. **locality:** Bijapur. Cultivar. Seed.

PI 562857 **origin:** India. **origin institute id:** IS 5706. **cultivar:** BARGATU. **locality:** Shahbad. Cultivar. Seed.

PI 562858 **origin:** India. **origin institute id:** IS 5710. **cultivar:** MUSORIA GIDDHA. **locality:** Shahbad. Cultivar. Seed.

PI 562859 **origin:** India. **origin institute id:** IS 5713. **cultivar:** JANERA MOKAMEH. **locality:** Patna. Cultivar. Seed.

PI 562860 **origin:** India. **origin institute id:** IS 5718. **cultivar:** MASURIA KARAMEER. Cultivar. Seed.

PI 562861 **origin:** India. **origin institute id:** IS 5721. **cultivar:** MUSORIA KARAMPUR. Cultivar. Seed.

PI 562862 **origin:** India. **origin institute id:** IS 5725. **cultivar:** JANERALALKA BUDUN JOLA. **locality:** Champaran. Cultivar. Seed.

PI 562863 **origin:** India. **origin institute id:** IS 5787. **cultivar:** KURCHI. **locality:** Dhaubad. Cultivar. Seed.

PI 562864 **origin:** India. **origin institute id:** IS 5797. **cultivar:** BANDRI. **locality:** Sagar. Cultivar. Seed.

PI 562865 **origin:** India. **origin institute id:** IS 5817. **cultivar:** DEORI. **locality:** Damol. Cultivar. Seed.

PI 562866 **origin:** India. **origin institute id:** IS 5856. **cultivar:** SAFED BEDRA. **locality:** Narsuighpur. Cultivar. Seed.

PI 562701 to 563509-continued

PI 562867 **origin:** India. **origin institute id:** IS 5861. **cultivar:** PEELA BEDRA. **locality:** Chhindwara. Cultivar. Seed.

PI 562868 **origin:** India. **origin institute id:** IS 5881. **locality:** Chhindwara. Cultivated. Seed.

PI 562869 **origin:** India. **origin institute id:** IS 5899. **cultivar:** KALPUR. **locality:** Raipur. Cultivar. Seed.

PI 562870 **origin:** India. **origin institute id:** IS 5947. **cultivar:** JAWA. **locality:** Rewa. Cultivar. Seed.

PI 562871 **origin:** India. **origin institute id:** IS 5988. **cultivar:** JAMAI JUNDI DHAORI. **locality:** Panna. Cultivar. Seed.

PI 562872 **origin:** India. **origin institute id:** IS 6001. **cultivar:** LAHAR KHURD. **locality:** Tikaugarh. Cultivar. Seed.

PI 562873 **origin:** India. **origin institute id:** IS 6032. **cultivar:** LAL. **locality:** Ludhiana. Cultivar. Seed.

PI 562874 **origin:** India. **origin institute id:** IS 6033. **cultivar:** LAL. **locality:** Ludhiana. Cultivar. Seed.

PI 562875 **origin:** India. **origin institute id:** IS 6036. **cultivar:** CHARI JOWAR. Cultivar. Seed.

PI 562876 **origin:** India. **origin institute id:** IS 6086. **cultivar:** JOWAR BAHINA. **locality:** Jhansi. Cultivar. Seed.

PI 562877 **origin:** India. **origin institute id:** IS 6089. **cultivar:** JOWAR RED SPOTI. **locality:** Orni. Cultivar. Seed.

PI 562878 **origin:** India. **origin institute id:** IS 6095. **cultivar:** JOWAR. **locality:** Hamirpur. Cultivar. Seed.

PI 562879 **origin:** India. **origin institute id:** IS 6113. **cultivar:** JOWAR SACHENDI. **locality:** Kanpur. Cultivar. Seed.

PI 562880 **origin:** India. **origin institute id:** IS 6135. **cultivar:** JOWAR YELLOW. **locality:** Allahabad. Cultivar. Seed.

PI 562881 **origin:** India. **origin institute id:** IS 6165. **cultivar:** LADHRA KALIPARA. **locality:** Bahraich. Cultivar. Seed.

PI 562882 **origin:** India. **origin institute id:** IS 6204. **cultivar:** JOWAR WHITE. **locality:** Pilibhit. Cultivar. Seed.

PI 562883 **origin:** India. **origin institute id:** IS 6213. **cultivar:** CHARI BAROHAN. **locality:** Pilibhit. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562884 **origin:** India. **origin institute id:** IS 6237. **cultivar:** BAJRA KOTIAPATHI. **locality:** Bankura. Cultivar. Seed.
- PI 562885 **origin:** India. **origin institute id:** IS 6288. **cultivar:** CHARA PALM. **locality:** Sangrur. Cultivar. Seed.
- PI 562886 **origin:** India. **origin institute id:** IS 6301. **cultivar:** JOWAR GHESORA. **locality:** Gurgaon. Cultivar. Seed.
- PI 562887 **origin:** India. **origin institute id:** IS 6315. **cultivar:** CHARA. **locality:** Rohkik. Cultivar. Seed.
- PI 562888 **origin:** India. **origin institute id:** IS 6319. **cultivar:** KHARA. **locality:** Rohkik. Cultivar. Seed.
- PI 562889 **origin:** India. **origin institute id:** IS 6327. **cultivar:** PALI. **locality:** Badhwana. Cultivar. Seed.
- PI 562890 **origin:** India. **origin institute id:** IS 6332. **cultivar:** PURBI GOOSENECK BANWAR. **locality:** Karnal. Cultivar. Seed.
- PI 562891 **origin:** India. **origin institute id:** IS 6342. **cultivar:** DESI JOWAR KAITHAL. **locality:** Karnal. Cultivar. Seed.
- PI 562892 **origin:** India. **origin institute id:** IS 6437. **cultivar:** JOWAR VARIETY SHENOLI 4-2. **locality:** North Satara. Cultivar. Seed.
- PI 562893 **origin:** India. **origin institute id:** IS 6449. **cultivar:** KARAD LOCAL. **locality:** Karad. Cultivar. Seed.
- PI 562894 **origin:** India. **origin institute id:** IS 6541. **locality:** Karad. Cultivated. Seed.
- PI 562895 **origin:** UNKNOWN. **origin institute id:** IS 6566. Cultivated. Seed.
- PI 562896 **origin:** India. **origin institute id:** IS 6700. Cultivated. Seed.
- PI 562897 **origin:** Burkina. **origin institute id:** IS 6719. **cultivar:** FARAKO-BA. Cultivar. Seed.
- PI 562898 **origin:** Burkina. **origin institute id:** IS 6749. **cultivar:** ZILET. **other id:** 169. Cultivar. Seed.
- PI 562899 **origin:** Burkina. **origin institute id:** IS 6753. **cultivar:** GNIANSO. **other id:** 193. Cultivar. Seed.
- PI 562900 **origin:** Burkina. **origin institute id:** IS 6755. **cultivar:** 194 AB FARAKO - BA. Cultivar. Seed.

PI 562701 to 563509-continued

PI 562901 **origin:** Burkina. **origin institute id:** IS 6761.
cultivar: 201 AB FARAKO - BA. Cultivar. Seed.

PI 562902 **origin:** Burkina. **origin institute id:** IS 6770.
cultivar: 212 AB FARAKO - BA. Cultivar. Seed.

PI 562903 **origin:** Burkina. **origin institute id:** IS 6772.
cultivar: 219 AB FARAKO - BA. Cultivar. Seed.

PI 562904 **origin:** Burkina. **origin institute id:** IS 6775.
cultivar: 223 AB FARAKO - BA. Cultivar. Seed.

PI 562905 **origin:** Burkina. **origin institute id:** IS 6780.
cultivar: 258 AB FARAKO - BA. Cultivar. Seed.

PI 562906 **origin:** Burkina. **origin institute id:** IS 6783.
cultivar: MANGA. **other id:** 275. Cultivar. Seed.

PI 562907 **origin:** Burkina. **origin institute id:** IS 6798.
cultivar: HAMBORO. **other id:** 340. Cultivar. Seed.

PI 562908 **origin:** Burkina. **origin institute id:** IS 6800.
cultivar: BALEATASSI. **other id:** 342. Cultivar. Seed.

PI 562909 **origin:** Burkina. **origin institute id:** IS 6801.
cultivar: BABATASSI. **other id:** 343. Cultivar. Seed.

PI 562910 **origin:** Burkina. **origin institute id:** IS 6804.
cultivar: KORAHOUNA. **other id:** 346. Cultivar. Seed.

PI 562911 **origin:** Burkina. **origin institute id:** IS 6806.
cultivar: BABATATI. **other id:** 348. Cultivar. Seed.

PI 562912 **origin:** Burkina. **origin institute id:** IS 6807.
cultivar: KOROMOUNA. **other id:** 349. Cultivar. Seed.

PI 562913 **origin:** Burkina. **origin institute id:** IS 6810.
cultivar: KORHBIRI. **other id:** 352. Cultivar. Seed.

PI 562914 **origin:** Burkina. **origin institute id:** IS 6811.
cultivar: YOKO. **other id:** 353. Cultivar. Seed.

PI 562915 **origin:** Burkina. **origin institute id:** IS 6813.
cultivar: BELOKO. **other id:** 355. Cultivar. Seed.

PI 562916 **origin:** United States. **origin institute id:** IS 6880.
other id: 571. Cultivated. Seed.

PI 562917 **origin:** Sudan. **origin institute id:** IS 6900. **cultivar:**
DEGAIL. **other id:** 55. Cultivar. Seed.

PI 562701 to 563509-continued

PI 562918 origin: Sudan. origin institute id: IS 6905. cultivar: CALB EL GAGHAS. other id: 75. Cultivar. Seed.

PI 562919 origin: Sudan. origin institute id: IS 6922. cultivar: DINDERAWI II. other id: 144. Cultivar. Seed.

PI 562920 origin: Sudan. origin institute id: IS 6923. cultivar: DINDERAWI V. other id: 147. Cultivar. Seed.

PI 562921 origin: Sudan. origin institute id: IS 6924. cultivar: MUGBASH 2. other id: 149. Cultivar. Seed.

PI 562922 origin: Sudan. origin institute id: IS 6925. cultivar: WAD YABIS I. other id: 157. Cultivar. Seed.

PI 562923 origin: Sudan. origin institute id: IS 6929. cultivar: BAZAI 1. other id: 163. Cultivar. Seed.

PI 562924 origin: Sudan. origin institute id: IS 6934. cultivar: WAD AKR 5. other id: 171. Cultivar. Seed.

PI 562925 origin: Sudan. origin institute id: IS 6935. cultivar: WAD AKR 8. other id: 173. Cultivar. Seed.

PI 562926 origin: Sudan. origin institute id: IS 6952. cultivar: TABOLA HUMRA. other id: 220. Cultivar. Seed.

PI 562927 origin: Sudan. origin institute id: IS 6953. cultivar: GHAM AWEIL. other id: 231. Cultivar. Seed.

PI 562928 origin: Sudan. origin institute id: IS 6955. cultivar: ABU DIGAIS. other id: 235. Cultivar. Seed.

PI 562929 origin: Sudan. origin institute id: IS 6972. cultivar: FETERITA REMEITAB. other id: 278. Cultivar. Seed.

PI 562930 origin: Sudan. origin institute id: IS 6978. cultivar: FETERITA GASHESH 1. other id: 291. Cultivar. Seed.

PI 562931 origin: Sudan. origin institute id: IS 6982. cultivar: FETERITA SUKI I. other id: 304. Cultivar. Seed.

PI 562932 origin: Sudan. origin institute id: IS 6988. cultivar: FAYOUMI GEZITA. other id: 328. Cultivar. Seed.

PI 562933 origin: Sudan. origin institute id: IS 6995. cultivar: SAMBAS. other id: 373. Cultivar. Seed.

PI 562934 origin: Sudan. origin institute id: IS 7006. cultivar: AKWAITCH. other id: 425. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562935 **origin:** Sudan. **origin institute id:** IS 7010. **cultivar:** CRIP. **other id:** 433. Cultivar. Seed.
- PI 562936 **origin:** Sudan. **origin institute id:** IS 7014. **cultivar:** NYAN BOK EARLY. **other id:** 453. Cultivar. Seed.
- PI 562937 **origin:** Sudan. **origin institute id:** IS 7018. **cultivar:** LODOKA. **other id:** 463. Cultivar. Seed.
- PI 562938 **origin:** Sudan. **origin institute id:** IS 7024. **cultivar:** SUDAN GUINEA CORN. Cultivar. Seed.
- PI 562939 **origin:** Sudan. **origin institute id:** IS 7030. **cultivar:** FETERITA MAATUK. **other id:** 4875/30/58/11. Cultivar. Seed.
- PI 562940 **origin:** Sudan. **origin institute id:** IS 7053. **cultivar:** ABU DIGAIS. **other id:** OTLR 31. Cultivar. Seed.
- PI 562941 **origin:** Sudan. **origin institute id:** IS 7062. **cultivar:** ABU DEGAIS WHITE. **other id:** 128. Cultivar. Seed.
- PI 562942 **origin:** Sudan. **origin institute id:** IS 7070. **cultivar:** SBI 15. **other id:** 257. Cultivar. Seed.
- PI 562943 **origin:** Sudan. **origin institute id:** IS 7077. **cultivar:** AKR. **other id:** 358. Cultivar. Seed.
- PI 562944 **origin:** Central African Republic. **origin institute id:** IS 7094. **cultivar:** SBI 151. **other id:** 187. Cultivar. Seed.
- PI 562945 **origin:** Central African Republic. **origin institute id:** IS 7095. **cultivar:** SBI 7. **other id:** 189. Cultivar. Seed.
- PI 562946 **origin:** Central African Republic. **origin institute id:** IS 7112. **cultivar:** SBI 128. **other id:** 342. Cultivar. Seed.
- PI 562947 **origin:** Central African Republic. **origin institute id:** IS 7121. **cultivar:** SBI 115. **other id:** 404. Cultivar. Seed.
- PI 562948 **origin:** Uganda. **origin institute id:** IS 7133. **other id:** 156. **other id:** T 27. Cultivated. Seed.
- PI 562949 **origin:** Uganda. **origin institute id:** IS 7136. **cultivar:** MARISSA. **other id:** 353. Cultivar. Seed.
- PI 562950 **origin:** Zimbabwe. **origin institute id:** IS 7157. **cultivar:** KAVIRONDO 2. **other id:** 447. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562951 **origin:** South Africa. **origin institute id:** IS 7160.
cultivar: LANGARO. **other id:** 474. Cultivar. Seed.
- PI 562952 **origin:** Nigeria. **origin institute id:** IS 7196.
cultivar: AWI BEZIEK. Cultivar. Seed.
- PI 562953 **origin:** Nigeria. **origin institute id:** IS 7197.
cultivar: KAIFF YAR DOKA. Cultivar. Seed.
- PI 562954 **origin:** Nigeria. **origin institute id:** IS 7212.
cultivar: YL 748. **remarks:** Ex. Yola. Cultivar. Seed.
- PI 562955 **origin:** Nigeria. **origin institute id:** IS 7217.
cultivar: CHAKALARI WANERI. **remarks:** Ex. Yola.
Cultivar. Seed.
- PI 562956 **origin:** Nigeria. **origin institute id:** IS 7229.
cultivar: FC STANDARD. Cultivar. Seed.
- PI 562957 **origin:** Nigeria. **origin institute id:** IS 7245.
cultivar: FARAFARA. Cultivar. Seed.
- PI 562958 **origin:** Nigeria. **origin institute id:** IS 7255. **other**
id: M 598. Cultivated. Seed.
- PI 562959 **origin:** Nigeria. **origin institute id:** IS 7269.
cultivar: TELERI SOLOMA. **other id:** AD 5. Cultivar.
Seed.
- PI 562960 **origin:** Nigeria. **origin institute id:** IS 7287.
cultivar: KWASINI MUSA. **other id:** AD 23. **locality:**
Michika. Cultivar. Seed.
- PI 562961 **origin:** Nigeria. **origin institute id:** IS 7325.
cultivar: LAKKITE DAIJA. **other id:** BO 28. **locality:**
Fika. Cultivar. Seed.
- PI 562962 **origin:** Nigeria. **origin institute id:** IS 7332.
cultivar: BAJA. **other id:** BO 35. **locality:** Fika.
Cultivar. Seed.
- PI 562963 **origin:** Nigeria. **origin institute id:** IS 7335.
cultivar: BUZARI. **other id:** BO 39. **locality:** Fika.
remarks: Resistant to races 1 and 2 of *Fusarium oxysporum*
f. sp. pisi. Tolerant to *Aphanomyces* and *Fusarium* root
rots. Cultivar. Seed.
- PI 562964 **origin:** Nigeria. **origin institute id:** IS 7342.
cultivar: FARAFARA. **other id:** BO 47. **remarks:** Resistant
to races 1 and 2 of *Fusarium oxysporum* f. sp. pisi.
Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562965 **origin:** Nigeria. **origin institute id:** IS 7352.
 cultivar: MINARE. **other id:** BO 58. **locality:** Maidugri.
 remarks: Highly tolerant to Aphanomyces root rot.
 Cultivar. Seed.
- PI 562966 **origin:** Nigeria. **origin institute id:** IS 7357.
 cultivar: MARE (PAGAN TRIBES). **other id:** BO 66.
 remarks: Resistant to bacterial and Fusarium wilts. High
 resistance to Phytophthora root rot. Cultivar. Seed.
- PI 562967 **origin:** Nigeria. **origin institute id:** IS 7368.
 cultivar: FARAFARA. **other id:** BA 9. **locality:** Misan.
 remarks: High resistance to anthracnose and bacterial
 wilt. Moderate resistance to Fusarium wilt. Cultivar.
 Seed.
- PI 562968 **origin:** Nigeria. **origin institute id:** IS 7371.
 cultivar: DARA FARAFARA KAEI. **other id:** BA 14.
 locality: Ningi. Cultivar. Seed.
- PI 562969 **origin:** Nigeria. **origin institute id:** IS 7377.
 cultivar: FARDE. **other id:** BA 20. **remarks:** Resistant to
 northern corn leaf blight. Good resistance to diploidia
 stalk rot. Cultivar. Seed.
- PI 562970 **origin:** Nigeria. **origin institute id:** IS 7393.
 cultivar: FARAFARA. **other id:** BA 38. **locality:** Gombe.
 remarks: Resistant to northern corn leaf blight. Good
 resistance to diploidia stalk rot. Cultivar. Seed.
- PI 562971 **origin:** Nigeria. **origin institute id:** IS 7407.
 cultivar: FARAFARA. **other id:** BE 10. **locality:** Agyargu.
 Cultivar. Seed.
- PI 562972 **origin:** Nigeria. **origin institute id:** IS 7417.
 cultivar: AJAUGWA. **other id:** BE 23. **locality:**
 Nassarawa. Cultivar. Seed.
- PI 562973 **origin:** Nigeria. **origin institute id:** IS 7418.
 cultivar: JAN DAWA. **other id:** BE 24. **locality:** Udengi
 Poki. Cultivar. Seed.
- PI 562974 **origin:** Nigeria. **origin institute id:** IS 7426.
 cultivar: EHUMA EX. OJIRA OTURKOO. **other id:** BE 33.
 locality: Adoma. Cultivar. Seed.
- PI 562975 **origin:** Nigeria. **origin institute id:** IS 7446.
 cultivar: BASHARANBA. **other id:** KA 14. **locality:**
 Kakumi. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562976 **origin:** Nigeria. **origin institute id:** IS 7448.
cultivar: MORI DAUYEN TRI. **other id:** KA 16. **locality:**
Tajoki. Cultivar. Seed.
- PI 562977 **origin:** Nigeria. **origin institute id:** IS 7459.
cultivar: YAL MACHINA. **other id:** KA 29. **locality:**
Tambu. Cultivar. Seed.
- PI 562978 **origin:** Nigeria. **origin institute id:** IS 7462.
cultivar: BABADA. **other id:** KA 33. **locality:** Koza.
Cultivar. Seed.
- PI 562979 **origin:** Nigeria. **origin institute id:** IS 7463.
cultivar: DUKUS. **other id:** KA 34. **locality:** Tambu.
Cultivar. Seed.
- PI 562980 **origin:** Nigeria. **origin institute id:** IS 7470.
cultivar: OKA. **other id:** KB 5. **locality:** Kabba.
Cultivar. Seed.
- PI 562981 **origin:** Nigeria. **origin institute id:** IS 7473.
cultivar: EKA OR OKA BABA. **other id:** KB 8. **locality:**
Egbe. Cultivar. Seed.
- PI 562982 **origin:** Nigeria. **origin institute id:** IS 7474.
cultivar: EKA OR OKA BABA. **other id:** KB 9. **locality:**
Okebunkur. Cultivar. Seed.
- PI 562983 **origin:** Nigeria. **origin institute id:** IS 7476.
cultivar: AKURICHAPA. **other id:** KB 11. **locality:** Okene.
Cultivar. Seed.
- PI 562984 **origin:** Nigeria. **origin institute id:** IS 7479.
cultivar: AYIOBU. **other id:** KB 14. **locality:** Kabbaarea.
Cultivar. Seed.
- PI 562985 **origin:** Nigeria. **origin institute id:** IS 7480.
cultivar: AYI. **other id:** KB 15. **locality:** Bassa Ngi.
Cultivar. Seed.
- PI 562986 **origin:** Nigeria. **origin institute id:** IS 7482.
cultivar: CHIU. **other id:** KB 17. **locality:** Bassa Komo.
Cultivar. Seed.
- PI 562987 **origin:** Nigeria. **origin institute id:** IS 7493.
cultivar: YARANYO. **other id:** KO 7. **locality:** Maduri.
Cultivar. Seed.
- PI 562988 **origin:** Nigeria. **origin institute id:** IS 7500.
cultivar: HAKORIN FARUWA. **other id:** KO 17. **locality:**
Gumel. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 562989 origin: Nigeria. origin institute id: IS 7530. other id: KO 53. locality: Gaya. Cultivated. Seed.
- PI 562990 origin: Nigeria. origin institute id: IS 7552. cultivar: MURBAN GANGAU. other id: PL 17. locality: Wase. Cultivar. Seed.
- PI 562991 origin: Nigeria. origin institute id: IS 7559. cultivar: GIWA. other id: PL 24. locality: Womba. Cultivar. Seed.
- PI 562992 origin: Nigeria. origin institute id: IS 7573. cultivar: GARGBO. other id: PL 39. locality: Womba. Cultivar. Seed.
- PI 562993 origin: Nigeria. origin institute id: IS 7578. cultivar: FARIN DAKA. other id: PL 48. locality: Dengi. Cultivar. Seed.
- PI 562994 origin: Nigeria. origin institute id: IS 7591. cultivar: HANA MATA BURKA. other id: NG 13. locality: Abuja. Cultivar. Seed.
- PI 562995 origin: Nigeria. origin institute id: IS 7611. cultivar: DAN DAURA. other id: NG 36. locality: Batati. Cultivar. Seed.
- PI 562996 origin: Nigeria. origin institute id: IS 7618. cultivar: TSWAGUTAGI. other id: NG 44. locality: Lemu. Cultivar. Seed.
- PI 562997 origin: Nigeria. origin institute id: IS 7621. cultivar: EKPAN DZUNGI. other id: NG 47. locality: Lemu. Cultivar. Seed.
- PI 562998 origin: Nigeria. origin institute id: IS 7627. cultivar: MASUNGI. other id: NG 53. locality: Kuchigi. Cultivar. Seed.
- PI 562999 origin: Nigeria. origin institute id: IS 7641. cultivar: TAKANDA DPARA BOKU. other id: NG 69. locality: Dabba. Cultivar. Seed.
- PI 563000 origin: Nigeria. origin institute id: IS 7646. cultivar: LELE. other id: NG 74. locality: Essa. Cultivar. Seed.
- PI 563001 origin: Nigeria. origin institute id: IS 7657. cultivar: KUTILUKO. other id: NG 88. locality: Essa. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563002 **origin:** Nigeria. **origin institute id:** IS 7672.
cultivar: EKPAN DZURUGI. **other id:** NG 105. **locality:**
Mokwa. Cultivar. Seed.
- PI 563003 **origin:** Nigeria. **origin institute id:** IS 7684.
cultivar: KAURA. **other id:** NG 117. **locality:** Kagara.
Cultivar. Seed.
- PI 563004 **origin:** Nigeria. **origin institute id:** IS 7693.
cultivar: RABA. **other id:** NG 129. **locality:** Zuru.
Cultivar. Seed.
- PI 563005 **origin:** Nigeria. **origin institute id:** IS 7694.
cultivar: JAN DAWA. **other id:** NG 130. **locality:** Danko.
Cultivar. Seed.
- PI 563006 **origin:** Nigeria. **origin institute id:** IS 7696.
cultivar: GAGAYA. **other id:** NG 133. **locality:** Shadadi.
Cultivar. Seed.
- PI 563007 **origin:** Nigeria. **origin institute id:** IS 7726.
cultivar: HANTSAN GIWA. **other id:** ZA 8. **locality:** Awai.
Cultivar. Seed.
- PI 563008 **origin:** Nigeria. **origin institute id:** IS 7730.
cultivar: FARAFARA TURANAI. **other id:** ZA 13. **locality:**
Kubau. Cultivar. Seed.
- PI 563009 **origin:** Nigeria. **origin institute id:** IS 7739. **other**
id: ZA 23. **locality:** Marwa. Cultivated. Seed.
- PI 563010 **origin:** Nigeria. **origin institute id:** IS 7748.
cultivar: FARAFARA. **other id:** ZA 32. **locality:** Zangan.
Cultivar. Seed.
- PI 563011 **origin:** Nigeria. **origin institute id:** IS 7759.
cultivar: YARKATUMI. **other id:** ZA 47. **locality:** Fagaci.
Cultivar. Seed.
- PI 563012 **origin:** Nigeria. **origin institute id:** IS 7763.
cultivar: KAURA BAKANDUNIYA. **other id:** ZA 51. **locality:**
Matani. Cultivar. Seed.
- PI 563013 **origin:** Nigeria. **origin institute id:** IS 7765.
cultivar: MADAGARAYA TSIBINI. **other id:** ZA 53.
locality: Madobi. Cultivar. Seed.
- PI 563014 **origin:** Nigeria. **origin institute id:** IS 7767.
cultivar: GERON DUBE. **other id:** ZA 55. **locality:** Lene.
Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563015 **origin:** Nigeria. **origin institute id:** IS 7790.
cultivar: KAURA MAI FARAN KONA. **other id:** ZA 81.
locality: Shika. Cultivar. Seed.
- PI 563016 **origin:** Nigeria. **origin institute id:** IS 7813.
cultivar: TSAWAILA. **other id:** ZA 104. **locality:** Ikara.
Cultivar. Seed.
- PI 563017 **origin:** Nigeria. **origin institute id:** IS 7840.
cultivar: OKABABA FUN FUN. **other id:** IN 8. **locality:**
Alapa. Cultivar. Seed.
- PI 563018 **origin:** Nigeria. **origin institute id:** IS 7851.
cultivar: DAN DAURA. **other id:** IN 20. **locality:** Pategi.
Cultivar. Seed.
- PI 563019 **origin:** Nigeria. **origin institute id:** IS 7871.
cultivar: KAURA. **other id:** IN 42. **locality:** Bussa.
Cultivar. Seed.
- PI 563020 **origin:** Nigeria. **origin institute id:** IS 7885.
cultivar: OKA FUNFUN. **other id:** IN 57. Cultivar. Seed.
- PI 563021 **origin:** Nigeria. **origin institute id:** IS 7899.
cultivar: TAPASOHIRA. **other id:** IN 72. **locality:**
Babana. Cultivar. Seed.
- PI 563022 **origin:** Nigeria. **origin institute id:** IS 7902.
cultivar: ESSTENE. **other id:** IN 75. **locality:** Babana.
Cultivar. Seed.
- PI 563023 **origin:** Nigeria. **origin institute id:** IS 7909.
cultivar: GIWA KANBA FARIN KONA. **other id:** SO 3.
locality: Badawa. Cultivar. Seed.
- PI 563024 **origin:** Nigeria. **origin institute id:** IS 7910.
cultivar: BAKIN KONA. **other id:** SO 4. **locality:** Jabo.
Cultivar. Seed.
- PI 563025 **origin:** Nigeria. **origin institute id:** IS 7935. **other**
id: SO 32. Cultivated. Seed.
- PI 563026 **origin:** Nigeria. **origin institute id:** IS 7946.
cultivar: HAKORIN YAMATA. **other id:** SO 46. **locality:**
Illo. Cultivar. Seed.
- PI 563027 **origin:** Nigeria. **origin institute id:** IS 7965.
cultivar: NAMIJIN ATSI. **other id:** SO 69. Cultivar.
Seed.
- PI 563028 **origin:** Nigeria. **origin institute id:** IS 7979.
cultivar: MALLE. **other id:** SO 85. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563029 **origin:** Nigeria. **origin institute id:** IS 7996.
cultivar: KAURA MAI BAKINKANO. **other id:** SO 104.
locality: Binyauri. Cultivar. Seed.
- PI 563030 **origin:** Nigeria. **origin institute id:** IS 7997.
cultivar: JAN MAKERI. **other id:** SO 105. Cultivar.
Seed.
- PI 563031 **origin:** Nigeria. **origin institute id:** IS 7999.
cultivar: GIWA DAMBA. **other id:** SO 107. **locality:**
Sokoto. Cultivar. Seed.
- PI 563032 **origin:** Japan. **origin institute id:** IS 8002. **cultivar:**
COLLIER 706C. Cultivar. Seed.
- PI 563033 **origin:** Japan. **origin institute id:** IS 8005. **cultivar:**
CANE HONEY. **other id:** Lot No. 36175. Cultivar. Seed.
- PI 563034 **origin:** Japan. **origin institute id:** IS 8011. **cultivar:**
NAGANO. Cultivar. Seed.
- PI 563035 **origin:** Japan. **origin institute id:** IS 8018. **other id:**
A 6. Cultivated. Seed.
- PI 563036 **origin:** Japan. **origin institute id:** IS 8022. **other id:**
A 11. Cultivated. Seed.
- PI 563037 **origin:** Japan. **origin institute id:** IS 8023. **other id:**
A 12. Cultivated. Seed.
- PI 563038 **origin:** Japan. **origin institute id:** IS 8025. **other id:**
A 14. Cultivated. Seed.
- PI 563039 **origin:** Japan. **origin institute id:** IS 8029. **other id:**
A 19. Cultivated. Seed.
- PI 563040 **origin:** Japan. **origin institute id:** IS 8054. **other id:**
A 57. Cultivated. Seed.
- PI 563041 **origin:** Japan. **origin institute id:** IS 8063. **other id:**
A 65. Cultivated. Seed.
- PI 563042 **origin:** Japan. **origin institute id:** IS 8069. **other id:**
A 70. Cultivated. Seed.
- PI 563043 **origin:** Japan. **origin institute id:** IS 8084. **other id:**
A 82-1. Cultivated. Seed.
- PI 563044 **origin:** Japan. **origin institute id:** IS 8096. **other id:**
A 91. Cultivated. Seed.

PI 562701 to 563509-continued

PI 563045 **origin:** Japan. **origin institute id:** IS 8113. **other id:**
A 107. Cultivated. Seed.

PI 563046 **origin:** Japan. **origin institute id:** IS 8114. **other id:**
A 108. Cultivated. Seed.

PI 563047 **origin:** Japan. **origin institute id:** IS 8124. **other id:**
A 114. Cultivated. Seed.

PI 563048 **origin:** Japan. **origin institute id:** IS 8125. **other id:**
A 115. Cultivated. Seed.

PI 563049 **origin:** Japan. **origin institute id:** IS 8133. **other id:**
A 128. Cultivated. Seed.

PI 563050 **origin:** Uganda. **origin institute id:** IS 8145. **other id:**
C 8. **other id:** EC 21335. Cultivated. Seed.

PI 563051 **origin:** Uganda. **origin institute id:** IS 8146. **other id:**
C 9. **other id:** EC 21336. Cultivated. Seed.

PI 563052 **origin:** Uganda. **origin institute id:** IS 8148. **other id:**
C 12. **other id:** EC 21338. Cultivated. Seed.

PI 563053 **origin:** Uganda. **origin institute id:** IS 8150. **other id:**
C 17. **other id:** EC 21340. Cultivated. Seed.

PI 563054 **origin:** Uganda. **origin institute id:** IS 8186. **other id:**
J 74. **other id:** EC 21381. Cultivated. Seed.

PI 563055 **origin:** Uganda. **origin institute id:** IS 8198. **other id:**
L 28. **other id:** EC 21395. Cultivated. Seed.

PI 563056 **origin:** Uganda. **origin institute id:** IS 8208. **other id:**
M 5. **other id:** EC 21405. Cultivated. Seed.

PI 563057 **origin:** Uganda. **origin institute id:** IS 8210. **other id:**
MAC 7. **other id:** EC 21407. Cultivated. Seed.

PI 563058 **origin:** Uganda. **origin institute id:** IS 8227. **other id:**
SB 48. **other id:** EC 21424. Cultivated. Seed.

PI 563059 **origin:** Uganda. **origin institute id:** IS 8240. **other id:**
SB 100. **other id:** EC 21437. Cultivated. Seed.

PI 563060 **origin:** Uganda. **origin institute id:** IS 8243. **other id:**
SB 117. **other id:** EC 21440. Cultivated. Seed.

PI 563061 **origin:** Uganda. **origin institute id:** IS 8252. **other id:**
SB 232. **other id:** EC 21450. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 563062 **origin:** Uganda. **origin institute id:** IS 8256. **other id:** SB 258. **other id:** EC 21455. Cultivated. Seed.
- PI 563063 **origin:** Uganda. **origin institute id:** IS 8261. **other id:** SB 494. **other id:** EC 21461. Cultivated. Seed.
- PI 563064 **origin:** Uganda. **origin institute id:** IS 8262. **other id:** EC 21462. Cultivated. Seed.
- PI 563065 **origin:** Tanzania. **origin institute id:** IS 8270. **other id:** STR 5/18. **other id:** EC 21471. Cultivated. Seed.
- PI 563066 **origin:** Uganda. **origin institute id:** IS 8271. **other id:** EC 21472. Cultivated. Seed.
- PI 563067 **origin:** Uganda. **origin institute id:** IS 8285. **other id:** EC 21486. Cultivated. Seed.
- PI 563068 **origin:** United States. **origin institute id:** IS 8303. **other id:** SA 9129-26-6. Cultivated. Seed.
- PI 563069 **origin:** India. **origin institute id:** IS 8310. **cultivar:** SUKHPUR KUTCH. **locality:** Kutch. Cultivar. Seed.
- PI 563070 **origin:** India. **origin institute id:** IS 8311. **cultivar:** VAYOR KUTCH. **locality:** Kutch. Cultivar. Seed.
- PI 563071 **origin:** India. **origin institute id:** IS 8312. **cultivar:** DAYAPER KUTCH. **locality:** Kutch. Cultivar. Seed.
- PI 563072 **origin:** India. **origin institute id:** IS 8314. **cultivar:** MUNDRA KUTCH. **locality:** Kutch. Cultivar. Seed.
- PI 563073 **origin:** India. **origin institute id:** IS 8317. **cultivar:** JOWAR NAGALPUR KUTCH. **locality:** Kutch. Cultivar. Seed.
- PI 563074 **origin:** India. **origin institute id:** IS 8320. **cultivar:** JOWAR BADIKHAKHAR. **locality:** Kutch. Cultivar. Seed.
- PI 563075 **origin:** India. **origin institute id:** IS 8321. **cultivar:** JOWAR DHUNAI KUTCH. **locality:** Kutch. Cultivar. Seed.
- PI 563076 **origin:** India. **origin institute id:** IS 8323. **cultivar:** JOWAR NINGAR RATNAL. **locality:** Kutch. Cultivar. Seed.
- PI 563077 **origin:** India. **origin institute id:** IS 8324. **cultivar:** JOWAR KONDURLI KUTCH. **locality:** Kutch. Cultivar. Seed.
- PI 563078 **origin:** India. **origin institute id:** IS 8325. **cultivar:** JOWAR KUTCH. **locality:** Kutch. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563079 **origin:** India. **origin institute id:** IS 8326. **cultivar:** GUNDHLI. **locality:** Kuchth. Cultivar. Seed.
- PI 563080 **origin:** India. **origin institute id:** IS 8331. **locality:** Hoshangabad. Cultivated. Seed.
- PI 563081 **origin:** Pakistan. **origin institute id:** IS 8339. **cultivar:** GHOTKI TUR. **locality:** Madhya Pradesh. Cultivar. Seed.
- PI 563082 **origin:** Pakistan. **origin institute id:** IS 8340. **cultivar:** ACCHI TURI. **locality:** Madhya Pradesh. Cultivar. Seed.
- PI 563083 **origin:** Pakistan. **origin institute id:** IS 8341. **cultivar:** KAMANDRI. **locality:** Madhya Pradesh. Cultivar. Seed.
- PI 563084 **origin:** Pakistan. **origin institute id:** IS 8342. **cultivar:** DUAL PURPOSE H 4-2. **locality:** Madhya Pradesh. Cultivar. Seed.
- PI 563085 **origin:** Pakistan. **origin institute id:** IS 8343. **cultivar:** DEPAR. **locality:** Madhya Pradesh. Cultivar. Seed.
- PI 563086 **origin:** Pakistan. **origin institute id:** IS 8344. **cultivar:** BAGDAR. **other id:** 8344. **locality:** Madhya Pradesh. Cultivar. Seed.
- PI 563087 **origin:** India. **origin institute id:** IS 8384. **other id:** L 28. **locality:** Mysore. Cultivated. Seed.
- PI 563088 **origin:** India. **origin institute id:** IS 8385. Cultivated. Seed.
- PI 563089 **origin:** Nigeria. **origin institute id:** IS 8397. **cultivar:** JARMA. Cultivar. Seed.
- PI 563090 **origin:** Nigeria. **origin institute id:** IS 8398. **cultivar:** JARMA FARAFARA. Cultivar. Seed.
- PI 563091 **origin:** Uganda. **origin institute id:** IS 8511. **cultivar:** IDX 57 RED LAN. Cultivar. Seed.
- PI 563092 **origin:** Ethiopia. **origin institute id:** IS 8525. **cultivar:** BUTHA. **other id:** DL 63/550. Cultivar. Seed.
- PI 563093 **origin:** Ethiopia. **origin institute id:** IS 8528. **cultivar:** KAFE KING. **other id:** DL 63/554. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563094 **origin:** Ethiopia. **origin institute id:** IS 8532.
cultivar: WHITE EAST AFRICA 59. Cultivar. Seed.
- PI 563095 **origin:** Ethiopia. **origin institute id:** IS 8533.
cultivar: KOSELAKUBA 60. Cultivar. Seed.
- PI 563096 **origin:** Ethiopia. **origin institute id:** IS 8538.
cultivar: PIETERSBURG 66. **remarks:** Tall baker.
Cultivar. Seed.
- PI 563097 **origin:** Ethiopia. **origin institute id:** IS 8543.
cultivar: PIETERSBURG 72. **remarks:** Light EWS. Cultivar.
Seed.
- PI 563098 **origin:** Ethiopia. **origin institute id:** IS 8545.
cultivar: MORABA 74. Cultivar. Seed.
- PI 563099 **origin:** Uganda. **origin institute id:** IS 8552. **other id:**
E 5. **locality:** Soroti. Cultivated. Seed.
- PI 563100 **origin:** Uganda. **origin institute id:** IS 8553. **other id:**
E 6. **locality:** Soroti. Cultivated. Seed.
- PI 563101 **origin:** Uganda. **origin institute id:** IS 8554. **other id:**
E 7. **locality:** Soroti. Cultivated. Seed.
- PI 563102 **origin:** Uganda. **origin institute id:** IS 8614. **other id:**
E 67. **locality:** Kawadna area. Cultivated. Seed.
- PI 563103 **origin:** Uganda. **origin institute id:** IS 8615. **other id:**
E 68. **locality:** Kawanda area. Cultivated. Seed.
- PI 563104 **origin:** Uganda. **origin institute id:** IS 8619. **other id:**
E 72. **locality:** Longo area. Cultivated. Seed.
- PI 563105 **origin:** Uganda. **origin institute id:** IS 8621. **other id:**
E 74. **locality:** Longo area. Cultivated. Seed.
- PI 563106 **origin:** Uganda. **origin institute id:** IS 8624. **other id:**
E 77. **locality:** Longo area. Cultivated. Seed.
- PI 563107 **origin:** Uganda. **origin institute id:** IS 8625. **other id:**
E 78. **locality:** Longo area. Cultivated. Seed.
- PI 563108 **origin:** Uganda. **origin institute id:** IS 8628. **other id:**
E 81. **locality:** Bunyora area. Cultivated. Seed.
- PI 563109 **origin:** Uganda. **origin institute id:** IS 8630. **other id:**
E 83. **locality:** Bunyora area. Cultivated. Seed.
- PI 563110 **origin:** United States. **origin institute id:** IS 8632.
other id: E 85. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 563111 **origin:** South Africa. **origin institute id:** IS 8637.
other id: E 90. Cultivated. Seed.
- PI 563112 **origin:** Uganda. **origin institute id:** IS 8638. **other id:**
E 91. **locality:** Teso area. Cultivated. Seed.
- PI 563113 **origin:** Uganda. **origin institute id:** IS 8640. **other id:**
E 93. Cultivated. Seed.
- PI 563114 **origin:** Uganda. **origin institute id:** IS 8642. **other id:**
E 95. Cultivated. Seed.
- PI 563115 **origin:** Uganda. **origin institute id:** IS 8644. **other id:**
E 97. Cultivated. Seed.
- PI 563116 **origin:** Uganda. **origin institute id:** IS 8645. **other id:**
E 98. **locality:** Western Nile. Cultivated. Seed.
- PI 563117 **origin:** Uganda. **origin institute id:** IS 8650. **other id:**
E 103. **locality:** Western Nile. Cultivated. Seed.
- PI 563118 **origin:** Uganda. **origin institute id:** IS 8655. **other id:**
E 109. **locality:** Western Nile. Cultivated. Seed.
- PI 563119 **origin:** Uganda. **origin institute id:** IS 8656. **other id:**
E 110. **locality:** Western Nile. Cultivated. Seed.
- PI 563120 **origin:** United States. **origin institute id:** IS 8661.
cultivar: CAPROCK. **other id:** E 115. Cultivar. Seed.
- PI 563121 **origin:** South Africa. **origin institute id:** IS 8669.
Cultivated. Seed.
- PI 563122 **origin:** Swaziland. **origin institute id:** IS 8672. **other**
id: E 126. Cultivated. Seed.
- PI 563123 **origin:** Swaziland. **origin institute id:** IS 8678. **other**
id: E 132. Cultivated. Seed.
- PI 563124 **origin:** Swaziland. **origin institute id:** IS 8679. **other**
id: E 133. Cultivated. Seed.
- PI 563125 **origin:** Swaziland. **origin institute id:** IS 8680. **other**
id: E 134. Cultivated. Seed.
- PI 563126 **origin:** Nigeria. **origin institute id:** IS 8686.
cultivar: BELKO. **other id:** E 140. Cultivar. Seed.
- PI 563127 **origin:** Nigeria. **origin institute id:** IS 8706. **other**
id: E 160. Cultivated. Seed.

PI 562701 to 563509-continued

PI 563128 origin: Nigeria. origin institute id: IS 8710. other id: E 164. Cultivated. Seed.

PI 563129 origin: Nigeria. origin institute id: IS 8711. other id: E 165. Cultivated. Seed.

PI 563130 origin: Nigeria. origin institute id: IS 8713. other id: E 167. Cultivated. Seed.

PI 563131 origin: Nigeria. origin institute id: IS 8714. other id: E 168. Cultivated. Seed.

PI 563132 origin: Nigeria. origin institute id: IS 8719. other id: E 173. Cultivated. Seed.

PI 563133 origin: Nigeria. origin institute id: IS 8722. other id: E 176. Cultivated. Seed.

PI 563134 origin: South Africa. origin institute id: IS 8739. other id: E 229. Cultivated. Seed.

PI 563135 origin: South Africa. origin institute id: IS 8740. cultivar: RED MIX. other id: E 230. Cultivar. Seed.

PI 563136 origin: South Africa. origin institute id: IS 8743. cultivar: BARNARD RED. other id: E 233. Cultivar. Seed.

PI 563137 origin: South Africa. origin institute id: IS 8744. cultivar: FRAMIDA. other id: E 234. Cultivar. Seed.

PI 563138 origin: South Africa. origin institute id: IS 8751. cultivar: GALOA SELUSA. other id: E 241. Cultivar. Seed.

PI 563139 origin: South Africa. origin institute id: IS 8762. other id: E 253. Cultivated. Seed.

PI 563140 origin: South Africa. origin institute id: IS 8763. other id: E 254. Cultivated. Seed.

PI 563141 origin: South Africa. origin institute id: IS 8770. other id: E 261. Cultivated. Seed.

PI 563142 origin: South Africa. origin institute id: IS 8771. cultivar: SOCTRIET. other id: E 262. Cultivar. Seed.

PI 563143 origin: South Africa. origin institute id: IS 8772. cultivar: BULFONTUIN WHITE. other id: E 263. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563144 **origin:** Zimbabwe. **origin institute id:** IS 8792. **other id:** E 285. Cultivated. Seed.
- PI 563145 **origin:** Sudan. **origin institute id:** IS 8796. **other id:** E 289. Cultivated. Seed.
- PI 563146 **origin:** Sudan. **origin institute id:** IS 8799. **other id:** E 292. Cultivated. Seed.
- PI 563147 **origin:** India. **origin institute id:** IS 8800. **cultivar:** JHANSI - A. **other id:** E 293. Cultivar. Seed.
- PI 563148 **origin:** Uganda. **origin institute id:** IS 8806. **other id:** E 471. **locality:** Karamoja. Cultivated. Seed.
- PI 563149 **origin:** Uganda. **origin institute id:** IS 8811. **other id:** E 476. Cultivated. Seed.
- PI 563150 **origin:** Uganda. **origin institute id:** IS 8816. **other id:** E 481. **locality:** Karamoja. Cultivated. Seed.
- PI 563151 **origin:** Kenya. **origin institute id:** IS 8823. **other id:** E 488. **locality:** Homa Bay. Cultivated. Seed.
- PI 563152 **origin:** Kenya. **origin institute id:** IS 8829. **cultivar:** ASUMBI. **other id:** E 494. **locality:** Asumbi. Cultivar. Seed.
- PI 563153 **origin:** Kenya. **origin institute id:** IS 8832. **other id:** E 497. Cultivated. Seed.
- PI 563154 **origin:** Kenya. **origin institute id:** IS 8834. **other id:** E 499. **locality:** Maseno. Cultivated. Seed.
- PI 563155 **origin:** Kenya. **origin institute id:** IS 8843. **other id:** E 508. **locality:** Kimsumu. Cultivated. Seed.
- PI 563156 **origin:** Kenya. **origin institute id:** IS 8848. **other id:** E 513. **locality:** Kakamega Muerias Road. Cultivated. Seed.
- PI 563157 **origin:** Kenya. **origin institute id:** IS 8860. **other id:** E 525. Cultivated. Seed.
- PI 563158 **origin:** Uganda. **origin institute id:** IS 8870. **other id:** E 535. **locality:** Busia. Cultivated. Seed.
- PI 563159 **origin:** Uganda. **origin institute id:** IS 8879. **other id:** E 544. **locality:** Busia. Cultivated. Seed.
- PI 563160 **origin:** Uganda. **origin institute id:** IS 8888. **other id:** E 553. **locality:** Tororo District. Cultivated. Seed.

PI 562701 to 563509-continued

PI 563161 **origin:** Uganda. **origin institute id:** IS 8902. **other id:** E 567. **locality:** Tororo District. Cultivated. Seed.

PI 563162 **origin:** Uganda. **origin institute id:** IS 8914. **other id:** E 579. Cultivated. Seed.

PI 563163 **origin:** Kenya. **origin institute id:** IS 8939. **other id:** E 604. Cultivated. Seed.

PI 563164 **origin:** Kenya. **origin institute id:** IS 8946. **other id:** E 611. Cultivated. Seed.

PI 563165 **origin:** Kenya. **origin institute id:** IS 8966. **other id:** E 631. Cultivated. Seed.

PI 563166 **origin:** Kenya. **origin institute id:** IS 8981. **other id:** E 651. Cultivated. Seed.

PI 563167 **origin:** Kenya. **origin institute id:** IS 8989. **other id:** E 659. Cultivated. Seed.

PI 563168 **origin:** Kenya. **origin institute id:** IS 8990. **other id:** E 660. Cultivated. Seed.

PI 563169 **origin:** Kenya. **origin institute id:** IS 8991. **other id:** E 661. Cultivated. Seed.

PI 563170 **origin:** Kenya. **origin institute id:** IS 9001. **other id:** E 671. Cultivated. Seed.

PI 563171 **origin:** Kenya. **origin institute id:** IS 9033. **other id:** E 703. Cultivated. Seed.

PI 563172 **origin:** Kenya. **origin institute id:** IS 9040. **other id:** E 710. Cultivated. Seed.

PI 563173 **origin:** Kenya. **origin institute id:** IS 9042. **other id:** E 712. Cultivated. Seed.

PI 563174 **origin:** Kenya. **origin institute id:** IS 9044. **other id:** E 714. Cultivated. Seed.

PI 563175 **origin:** Kenya. **origin institute id:** IS 9047. **other id:** E 717. Cultivated. Seed.

PI 563176 **origin:** Kenya. **origin institute id:** IS 9055. **other id:** E 725. Cultivated. Seed.

PI 563177 **origin:** Kenya. **origin institute id:** IS 9058. **other id:** E 728. Cultivated. Seed.

PI 562701 to 563509-continued

PI 563178 **origin:** Kenya. **origin institute id:** IS 9063. **other id:** E 733. Cultivated. Seed.

PI 563179 **origin:** Kenya. **origin institute id:** IS 9064. **other id:** E 734. Cultivated. Seed.

PI 563180 **origin:** Kenya. **origin institute id:** IS 9067. **other id:** E 737. Cultivated. Seed.

PI 563181 **origin:** Kenya. **origin institute id:** IS 9078. **other id:** E 748. Cultivated. Seed.

PI 563182 **origin:** Kenya. **origin institute id:** IS 9079. **other id:** E 749. Cultivated. Seed.

PI 563183 **origin:** Kenya. **origin institute id:** IS 9082. **other id:** E 752. Cultivated. Seed.

PI 563184 **origin:** Kenya. **origin institute id:** IS 9084. **other id:** E 754. Cultivated. Seed.

PI 563185 **origin:** Kenya. **origin institute id:** IS 9088. **other id:** E 758. Cultivated. Seed.

PI 563186 **origin:** Kenya. **origin institute id:** IS 9089. **other id:** E 759. Cultivated. Seed.

PI 563187 **origin:** Kenya. **origin institute id:** IS 9095. **other id:** E 765. Cultivated. Seed.

PI 563188 **origin:** Kenya. **origin institute id:** IS 9096. **other id:** E 766. Cultivated. Seed.

PI 563189 **origin:** Kenya. **origin institute id:** IS 9097. **other id:** E 767. Cultivated. Seed.

PI 563190 **origin:** Kenya. **origin institute id:** IS 9098. **other id:** E 768. Cultivated. Seed.

PI 563191 **origin:** Kenya. **origin institute id:** IS 9101. **other id:** E 771. Cultivated. Seed.

PI 563192 **origin:** Zimbabwe. **origin institute id:** IS 9118. **cultivar:** RL RADAI. **other id:** E 903. Cultivar. Seed.

PI 563193 **origin:** Uganda. **origin institute id:** IS 9121. **cultivar:** DODOTH. **other id:** E 932. **locality:** North Kanamaja. **remarks:** Wild hybrid. Cultivar. Seed.

PI 563194 **origin:** Kenya. **origin institute id:** IS 9122. **pedigree:** Wild X Cult. **other id:** E 933. **locality:** Homa Bay. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 563195 **origin:** Kenya. **origin institute id:** IS 9123. **pedigree:** Wild X Cult. **other id:** E 934. **locality:** Homa Bay. Cultivated. Seed.
- PI 563196 **origin:** Kenya. **origin institute id:** IS 9128. **pedigree:** Wild X Cult. **other id:** E 939. **locality:** Kisumu 40M. Cultivated. Seed.
- PI 563197 **origin:** Kenya. **origin institute id:** IS 9129. **pedigree:** Wild X Cult. **other id:** E 940. **locality:** Kisumu 40M. Cultivated. Seed.
- PI 563198 **origin:** Kenya. **origin institute id:** IS 9132. **pedigree:** Wild hybrid. **other id:** E 943. Cultivated. Seed.
- PI 563199 **origin:** Kenya. **origin institute id:** IS 9133. **pedigree:** Wild hybrid. **other id:** E 944. **locality:** Darajambili. Cultivated. Seed.
- PI 563200 **origin:** Kenya. **origin institute id:** IS 9135. **pedigree:** Wild hybrid. **other id:** E 946. **locality:** Oyugis. Cultivated. Seed.
- PI 563201 **origin:** Uganda. **origin institute id:** IS 9138. **pedigree:** Wild SG10 P2. **other id:** E 949. Cultivated. Seed.
- PI 563202 **origin:** United States. **origin institute id:** IS 9141. **other id:** E 952. Cultivated. Seed.
- PI 563203 **origin:** United States. **origin institute id:** IS 9145. **other id:** E 956. Cultivated. Seed.
- PI 563204 **origin:** Kenya. **origin institute id:** IS 9151. **other id:** E 1057. **locality:** Kiriahi Hills. Cultivated. Seed.
- PI 563205 **origin:** Kenya. **origin institute id:** IS 9152. **other id:** E 1058. **locality:** Kiriahi Hills. Cultivated. Seed.
- PI 563206 **origin:** Kenya. **origin institute id:** IS 9155. **other id:** E 1061. **locality:** Kisiani Prison. Cultivated. Seed.
- PI 563207 **origin:** Kenya. **origin institute id:** IS 9162. **other id:** E 1070. **locality:** Dara Jambili. Cultivated. Seed.
- PI 563208 **origin:** Kenya. **origin institute id:** IS 9168. **other id:** E 1076. **locality:** Nyakoe. Cultivated. Seed.
- PI 563209 **origin:** Kenya. **origin institute id:** IS 9174. **other id:** E 1082. **locality:** Bukhayo. Cultivated. Seed.
- PI 563210 **origin:** South Africa. **origin institute id:** IS 9179. **other id:** E 1087. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 563211 **origin:** South Africa. **origin institute id:** IS 9181. **other id:** E 1089. Cultivated. Seed.
- PI 563212 **origin:** South Africa. **origin institute id:** IS 9182. **other id:** E 1090. Cultivated. Seed.
- PI 563213 **origin:** South Africa. **origin institute id:** IS 9183. **other id:** E 1091. Cultivated. Seed.
- PI 563214 **origin:** Somalia. **origin institute id:** IS 9187. **cultivar:** BANDEED. **other id:** E 1095. Cultivar. Seed.
- PI 563215 **origin:** Somalia. **origin institute id:** IS 9189. **cultivar:** MAZANGO. Cultivar. Seed.
- PI 563216 **origin:** Uganda. **origin institute id:** IS 9191. **other id:** E 1101. **locality:** Karamoja. Cultivated. Seed.
- PI 563217 **origin:** Uganda. **origin institute id:** IS 9192. **cultivar:** SB 201. **other id:** E 1102. **locality:** Karamoja. Cultivar. Seed.
- PI 563218 **origin:** Uganda. **origin institute id:** IS 9194. **other id:** E 1117. **remarks:** Large glume selection. Cultivated. Seed.
- PI 563219 **origin:** Uganda. **origin institute id:** IS 9199. **other id:** E 1123. **locality:** Kigezidt. Cultivated. Seed.
- PI 563220 **origin:** Uganda. **origin institute id:** IS 9200. **other id:** E 1124. **locality:** Kigezidt. Cultivated. Seed.
- PI 563221 **origin:** Uganda. **origin institute id:** IS 9203. **other id:** E 1127. **locality:** Kigezidt. Cultivated. Seed.
- PI 563222 **origin:** United States. **origin institute id:** IS 9204. **cultivar:** SORGRASS. **other id:** E 1128. Cultivar. Seed.
- PI 563223 **origin:** Kenya. **origin institute id:** IS 9207. **other id:** E 1133. **locality:** Kisumu. Cultivated. Seed.
- PI 563224 **origin:** Kenya. **origin institute id:** IS 9208. **other id:** E 1134. **locality:** Kisumu. Cultivated. Seed.
- PI 563225 **origin:** Tanzania. **origin institute id:** IS 9213. **cultivar:** FERI. **other id:** E 1140. **locality:** Kikombo. Cultivar. Seed.
- PI 563226 **origin:** Uganda. **origin institute id:** IS 9215. **cultivar:** NAMATERE. **other id:** E 1142. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563227 **origin:** Uganda. **origin institute id:** IS 9216. **cultivar:** RIDIDAWA NG7. **other id:** E 1143. Cultivar. Seed.
- PI 563228 **origin:** Uganda. **origin institute id:** IS 9217. **cultivar:** SHIRU IN 50. **other id:** E 1144. Cultivar. Seed.
- PI 563229 **origin:** Uganda. **origin institute id:** IS 9219. **cultivar:** MAKAFAS 60. **other id:** E 1146. Cultivar. Seed.
- PI 563230 **origin:** Uganda. **origin institute id:** IS 9220. **cultivar:** EKAB. **other id:** E 1147. Cultivar. Seed.
- PI 563231 **origin:** Uganda. **origin institute id:** IS 9221. **cultivar:** CHITWA 398. **other id:** E 1148. Cultivar. Seed.
- PI 563232 **origin:** Uganda. **origin institute id:** IS 9222. **cultivar:** KYARAM. **other id:** E 1149. Cultivar. Seed.
- PI 563233 **origin:** Uganda. **origin institute id:** IS 9223. **cultivar:** WAXY MILO. **other id:** E 1150. Cultivar. Seed.
- PI 563234 **origin:** Uganda. **origin institute id:** IS 9225. **cultivar:** CULUM ABIAD. **other id:** E 1152. Cultivar. Seed.
- PI 563235 **origin:** Kenya. **origin institute id:** IS 9226. **cultivar:** KAVIRONDU 2. **other id:** E 1153. Cultivar. Seed.
- PI 563236 **origin:** Sudan. **origin institute id:** IS 9227. **cultivar:** TOGI 75. **other id:** E 1154. Cultivar. Seed.
- PI 563237 **origin:** Sudan. **origin institute id:** IS 9230. **cultivar:** TOGI 211. **other id:** E 1157. Cultivar. Seed.
- PI 563238 **origin:** Kenya. **origin institute id:** IS 9231. **cultivar:** MACRO CHAETA 4. **other id:** E 1163. Cultivar. Seed.
- PI 563239 **origin:** Uganda. **origin institute id:** IS 9240. **other id:** E 1173. **remarks:** Introduction to Uniriguru. Cultivated. Seed.
- PI 563240 **origin:** Uganda. **origin institute id:** IS 9241. **other id:** E 1174. **remarks:** Introduction to Uniriguru. Cultivated. Seed.
- PI 563241 **origin:** Uganda. **origin institute id:** IS 9243. **pedigree:** IS 2766 42B derivative. **other id:** E 1176. Cultivated. Seed.
- PI 563242 **origin:** Uganda. **origin institute id:** IS 9244. **other id:** E 1177. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 563243 **origin:** Uganda. **origin institute id:** IS 9245. **other id:** E 1178. Cultivated. Seed.
- PI 563244 **origin:** Uganda. **origin institute id:** IS 9246. **other id:** E 1179. Cultivated. Seed.
- PI 563245 **origin:** Uganda. **origin institute id:** IS 9247. **other id:** E 1180. Cultivated. Seed.
- PI 563246 **origin:** Uganda. **origin institute id:** IS 9248. **other id:** E 1181. Cultivated. Seed.
- PI 563247 **origin:** Uganda. **origin institute id:** IS 9249. **other id:** E 1182. Cultivated. Seed.
- PI 563248 **origin:** Sudan. **origin institute id:** IS 9250. **cultivar:** YEI. LOCAL. **other id:** E 1183. Cultivar. Seed.
- PI 563249 **origin:** South Africa. **origin institute id:** IS 9251. **other id:** E 1184. Cultivated. Seed.
- PI 563250 **origin:** South Africa. **origin institute id:** IS 9252. **other id:** E 1186. **remarks:** Imbricate glume. Cultivated. Seed.
- PI 563251 **origin:** Uganda. **origin institute id:** IS 9258. **pedigree:** Dobbs selection. **other id:** E 1204. **remarks:** Striga resistant. Cultivated. Seed.
- PI 563252 **origin:** Uganda. **origin institute id:** IS 9259. **pedigree:** Dobbs selection. **other id:** E 1205. Cultivated. Seed.
- PI 563253 **origin:** Uganda. **origin institute id:** IS 9260. **cultivar:** SRD 1. **other id:** E 1206. Cultivar. Seed.
- PI 563254 **origin:** Uganda. **origin institute id:** IS 9262. **cultivar:** COMBINE TYPE 3. **other id:** E 1208. Cultivar. Seed.
- PI 563255 **origin:** Uganda. **origin institute id:** IS 9267. **other id:** E 642. Cultivated. Seed.
- PI 563256 **origin:** Uganda. **origin institute id:** IS 9268. **other id:** E 643. Cultivated. Seed.
- PI 563257 **origin:** Uganda. **origin institute id:** IS 9270. **other id:** E 647. Cultivated. Seed.
- PI 563258 **origin:** Sudan. **origin institute id:** IS 9282. **cultivar:** BAHANA. **locality:** Wadenwait. Cultivar. Seed.
- PI 563259 **origin:** Sudan. **origin institute id:** IS 9283. **locality:** Wadenwait. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 563260 **origin:** Sudan. **origin institute id:** IS 9284. **cultivar:** TEF. **locality:** Wadenwait. Cultivar. Seed.
- PI 563261 **origin:** Sudan. **origin institute id:** IS 9285. **cultivar:** GORIB. **locality:** Wadenwait. Cultivar. Seed.
- PI 563262 **origin:** Sudan. **origin institute id:** IS 9286. **pedigree:** Selection 396. **locality:** Wadenwait. Cultivated. Seed.
- PI 563263 **origin:** South Africa. **origin institute id:** IS 9296. **other id:** No. 37. **locality:** Pretoria. Cultivated. Seed.
- PI 563264 **origin:** South Africa. **origin institute id:** IS 9324. **other id:** No. 106. **locality:** Pretoria. Cultivated. Seed.
- PI 563265 **origin:** South Africa. **origin institute id:** IS 9345. **other id:** No. 153. **locality:** Pretoria. Cultivated. Seed.
- PI 563266 **origin:** South Africa. **origin institute id:** IS 9347. **other id:** No. 157. **locality:** Pretoria. Cultivated. Seed.
- PI 563267 **origin:** South Africa. **origin institute id:** IS 9351. **other id:** No. 166. **locality:** Pretoria. Cultivated. Seed.
- PI 563268 **origin:** South Africa. **origin institute id:** IS 9368. **other id:** No. 218. **locality:** Pretoria. Cultivated. Seed.
- PI 563269 **origin:** South Africa. **origin institute id:** IS 9373. **other id:** No. 228. **locality:** Pretoria. Cultivated. Seed.
- PI 563270 **origin:** South Africa. **origin institute id:** IS 9388. **other id:** No. 259. **locality:** Pretoria. Cultivated. Seed.
- PI 563271 **origin:** South Africa. **origin institute id:** IS 9420. **other id:** No. 293. **locality:** Pretoria. Cultivated. Seed.
- PI 563272 **origin:** South Africa. **origin institute id:** IS 9425. **other id:** No. 298. **locality:** Pretoria. Cultivated. Seed.
- PI 563273 **origin:** South Africa. **origin institute id:** IS 9429. **other id:** No. 302. **locality:** Pretoria. Cultivated. Seed.

PI 562701 to 563509-continued

PI 563274 origin: South Africa. origin institute id: IS 9437.
 other id: No. 310. locality: Pretoria. Cultivated.
 Seed.

PI 563275 origin: South Africa. origin institute id: IS 9465.
 other id: No. 342. locality: Pretoria. Cultivated.
 Seed.

PI 563276 origin: South Africa. origin institute id: IS 9472.
 other id: No. 349. locality: Pretoria. Cultivated.
 Seed.

PI 563277 origin: South Africa. origin institute id: IS 9474.
 other id: No. 351. locality: Pretoria. Cultivated.
 Seed.

PI 563278 origin: South Africa. origin institute id: IS 9477.
 other id: No. 354. locality: Pretoria. Cultivated.
 Seed.

PI 563279 origin: South Africa. origin institute id: IS 9479.
 other id: No. 356. locality: Pretoria. Cultivated.
 Seed.

PI 563280 origin: South Africa. origin institute id: IS 9480.
 other id: No. 357. locality: Pretoria. Cultivated.
 Seed.

PI 563281 origin: South Africa. origin institute id: IS 9481.
 other id: No. 358. locality: Pretoria. Cultivated.
 Seed.

PI 563282 origin: South Africa. origin institute id: IS 9483.
 other id: No. 360. locality: Pretoria. Cultivated.
 Seed.

PI 563283 origin: South Africa. origin institute id: IS 9485.
 other id: No. 362. locality: Pretoria. Cultivated.
 Seed.

PI 563284 origin: South Africa. origin institute id: IS 9486.
 other id: No. 363. locality: Pretoria. Cultivated.
 Seed.

PI 563285 origin: South Africa. origin institute id: IS 9487.
 other id: No. 364. locality: Pretoria. Cultivated.
 Seed.

PI 563286 origin: South Africa. origin institute id: IS 9489.
 other id: No. 366. locality: Pretoria. Cultivated.
 Seed.

PI 562701 to 563509-continued

- PI 563287 **origin:** South Africa. **origin institute id:** IS 9490.
 other id: No. 367. **locality:** Pretoria. Cultivated.
 Seed.
- PI 563288 **origin:** South Africa. **origin institute id:** IS 9491.
 other id: No. 368. **locality:** Pretoria. Cultivated.
 Seed.
- PI 563289 **origin:** South Africa. **origin institute id:** IS 9524.
 other id: No. 903. Cultivated. Seed.
- PI 563290 **origin:** United States. **origin institute id:** IS 9580.
 cultivar: DIV-MARTIN. **other id:** B 3121. Cultivar.
 Seed.
- PI 563291 **origin:** United States. **origin institute id:** IS 9584.
 cultivar: TX 412-396+4031. **other id:** SA 3101. Cultivar.
 Seed.
- PI 563292 **origin:** United States. **origin institute id:** IS 9585.
 cultivar: 61-4322(R7078+403). **other id:** SA 3073.
 Cultivar. Seed.
- PI 563293 **origin:** Niger. **origin institute id:** IS 9591. **cultivar:**
 LABO RAKOUNI. **locality:** Irat. Cultivar. Seed.
- PI 563294 **origin:** Niger. **origin institute id:** IS 9598. **cultivar:**
 JA DAWA. **locality:** Irat. Cultivar. Seed.
- PI 563295 **origin:** United States. **origin institute id:** IS 9606.
 cultivar: RIO. **locality:** Beltsville. Cultivar. Seed.
- PI 563296 **origin:** Sudan. **origin institute id:** IS 9650. **cultivar:**
 EC HEGARI. **locality:** Gezira Research Station. Cultivar.
 Seed.
- PI 563297 **origin:** Sudan. **origin institute id:** IS 9668. **cultivar:**
 KAMURRA. **locality:** Gezira Research Station. Cultivar.
 Seed.
- PI 563298 **origin:** Sudan. **origin institute id:** IS 9679. **cultivar:**
 WHEATLAND MILO. **locality:** Gezira Research Station.
 Cultivar. Seed.
- PI 563299 **origin:** Sudan. **origin institute id:** IS 9696. **cultivar:**
 MALUK. **locality:** Gezira Research Station. Cultivar.
 Seed.
- PI 563300 **origin:** Sudan. **origin institute id:** IS 9706. **cultivar:**
 DAKOUNB. **locality:** Gezira Research Station. Cultivar.
 Seed.

PI 562701 to 563509-continued

- PI 563301 **origin:** Sudan. **origin institute id:** IS 9713. **cultivar:** SHAMSHAN. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563302 **origin:** Sudan. **origin institute id:** IS 9720. **cultivar:** MAYO. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563303 **origin:** Sudan. **origin institute id:** IS 9739. **cultivar:** ADHUK WONG WUT. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563304 **origin:** Sudan. **origin institute id:** IS 9764. **cultivar:** GESSABI GEZIRA. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563305 **origin:** Sudan. **origin institute id:** IS 9766. **cultivar:** KALILI. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563306 **origin:** Sudan. **origin institute id:** IS 9768. **cultivar:** KAN. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563307 **origin:** Sudan. **origin institute id:** IS 9786. **cultivar:** TORECK. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563308 **origin:** Sudan. **origin institute id:** IS 9799. **cultivar:** NAGA CRIMISI. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563309 **origin:** Sudan. **origin institute id:** IS 9820. **cultivar:** LEVEL FADIANG. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563310 **origin:** Sudan. **origin institute id:** IS 9830. **cultivar:** BOLICHINGAN. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563311 **origin:** Sudan. **origin institute id:** IS 9832. **cultivar:** SBI 122. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563312 **origin:** Sudan. **origin institute id:** IS 9836. **cultivar:** DW EARLY SHALLU 5772/4. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563313 **origin:** Sudan. **origin institute id:** IS 9846. **other id:** A 6. **locality:** Gezira Research Station. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 563314 **origin:** Sudan. **origin institute id:** IS 9849. **other id:** A 19. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563315 **origin:** Sudan. **origin institute id:** IS 9852. **other id:** A 34. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563316 **origin:** Sudan. **origin institute id:** IS 9872. **other id:** A 87. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563317 **origin:** Sudan. **origin institute id:** IS 9873. **other id:** A 88. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563318 **origin:** Sudan. **origin institute id:** IS 9909. **other id:** A 240. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563319 **origin:** Sudan. **origin institute id:** IS 9915. **other id:** A 291. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563320 **origin:** Sudan. **origin institute id:** IS 9961. **other id:** B 177. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563321 **origin:** Sudan. **origin institute id:** IS 9965. **other id:** B 187. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563322 **origin:** Sudan. **origin institute id:** IS 9966. **other id:** B 195. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563323 **origin:** Sudan. **origin institute id:** IS 9970. **cultivar:** WAD AKR. **locality:** Gezira Research Station. Cultivar. Seed.
- PI 563324 **origin:** Sudan. **origin institute id:** IS 9973. **other id:** A 92. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563325 **origin:** Sudan. **origin institute id:** IS 9974. **other id:** A 32. **locality:** Gezira Research Station. Cultivated. Seed.
- PI 563326 **origin:** Sudan. **origin institute id:** IS 9975. **other id:** A 305. **locality:** Gezira Research Station. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 563327 **origin:** Sudan. **origin institute id:** IS 9978. **cultivar:** FETERITA 1931. **locality:** Gezira Research Station. **Cultivar.** **Seed.**
- PI 563328 **origin:** Sudan. **origin institute id:** IS 9981. **cultivar:** WAD AKR RED. **locality:** Gezira Research Station. **Cultivar.** **Seed.**
- PI 563329 **origin:** Ethiopia. **origin institute id:** IS 10005. **other id:** D2 6203-41. **locality:** Debra Zeit. **Cultivated.** **Seed.**
- PI 563330 **origin:** Ethiopia. **origin institute id:** IS 10013. **other id:** D2 6403-93. **Cultivated.** **Seed.**
- PI 563331 **origin:** Ethiopia. **origin institute id:** IS 10014. **other id:** D2 6403-95. **locality:** Debra Zeit. **Cultivated.** **Seed.**
- PI 563332 **origin:** Ethiopia. **origin institute id:** IS 10015. **other id:** D2 6403-96. **locality:** Debra Zeit. **Cultivated.** **Seed.**
- PI 563333 **origin:** Ethiopia. **origin institute id:** IS 10032. **cultivar:** ASMARA MARKET 13. **locality:** Asmara. **Cultivar.** **Seed.**
- PI 563334 **origin:** Burkina. **origin institute id:** IS 10060. **other id:** No. 509. **Cultivated.** **Seed.**
- PI 563335 **origin:** Burkina. **origin institute id:** IS 10068. **cultivar:** TIAMASSIE-GORDAAN. **other id:** No. 142. **Cultivar.** **Seed.**
- PI 563336 **origin:** Burkina. **origin institute id:** IS 10097. **cultivar:** OUENI. **other id:** No. 370. **Cultivar.** **Seed.**
- PI 563337 **origin:** Burkina. **origin institute id:** IS 10101. **cultivar:** KAYHATIF. **other id:** No. 549. **Cultivar.** **Seed.**
- PI 563338 **origin:** Burkina. **origin institute id:** IS 10105. **other id:** No. 661. **Cultivated.** **Seed.**
- PI 563339 **origin:** Burkina. **origin institute id:** IS 10107. **cultivar:** KAPLA. **other id:** No. 57. **Cultivar.** **Seed.**
- PI 563340 **origin:** Burkina. **origin institute id:** IS 10118. **cultivar:** WAG-ZOANGA. **other id:** No. 215. **Cultivar.** **Seed.**
- PI 563341 **origin:** Burkina. **origin institute id:** IS 10135. **cultivar:** WANGMIGA. **other id:** No. 531. **Cultivar.** **Seed.**

PI 562701 to 563509-continued

- PI 563342 **origin:** Burkina. **origin institute id:** IS 10137.
 cultivar: LOOBMIOUGOU. **other id:** No. 563. Cultivar.
 Seed.
- PI 563343 **origin:** Burkina. **origin institute id:** IS 10139. **other**
 id: No. 651. Cultivated. Seed.
- PI 563344 **origin:** Burkina. **origin institute id:** IS 10143.
 cultivar: BOUM-YOINGA. **other id:** No. 724. Cultivar.
 Seed.
- PI 563345 **origin:** Burkina. **origin institute id:** IS 10155.
 cultivar: BIMOANBA. **other id:** No. 60. Cultivar. Seed.
- PI 563346 **origin:** Burkina. **origin institute id:** IS 10158.
 cultivar: PAPIENLI. **other id:** No. 74. Cultivar. Seed.
- PI 563347 **origin:** Burkina. **origin institute id:** IS 10159.
 cultivar: OOEDEZOURE. **other id:** No. 126. Cultivar.
 Seed.
- PI 563348 **origin:** Burkina. **origin institute id:** IS 10162. **other**
 id: No. 154. Cultivated. Seed.
- PI 563349 **origin:** Burkina. **origin institute id:** IS 10167.
 cultivar: ZEOULE. **other id:** No. 198. Cultivar. Seed.
- PI 563350 **origin:** Burkina. **origin institute id:** IS 10168. **other**
 id: No. 291. Cultivated. Seed.
- PI 563351 **origin:** Burkina. **origin institute id:** IS 10174.
 cultivar: TONNETOLOO. **other id:** No. 327. Cultivar.
 Seed.
- PI 563352 **origin:** Burkina. **origin institute id:** IS 10177.
 cultivar: PARKONGE. Cultivar. Seed.
- PI 563353 **origin:** Burkina. **origin institute id:** IS 10178.
 cultivar: PARAXOVON. **other id:** No. 447. Cultivar.
 Seed.
- PI 563354 **origin:** Burkina. **origin institute id:** IS 10180.
 cultivar: VIRIGO. **other id:** No. 450. Cultivar. Seed.
- PI 563355 **origin:** Burkina. **origin institute id:** IS 10181.
 cultivar: BOLOUNGOU. **other id:** No. 451. Cultivar.
 Seed.
- PI 563356 **origin:** Burkina. **origin institute id:** IS 10183.
 cultivar: GNIAGNA. **other id:** No. 457. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563357 **origin:** Burkina. **origin institute id:** IS 10184.
 cultivar: KENIKE. **other id:** No. 459. Cultivar. Seed.
- PI 563358 **origin:** Burkina. **origin institute id:** IS 10185.
 cultivar: DOR. **other id:** No. 460. Cultivar. Seed.
- PI 563359 **origin:** Burkina. **origin institute id:** IS 10186. **other**
 id: No. 461. Cultivated. Seed.
- PI 563360 **origin:** Burkina. **origin institute id:** IS 10187.
 cultivar: SAMBA. **other id:** No. 462. Cultivar. Seed.
- PI 563361 **origin:** Burkina. **origin institute id:** IS 10189.
 cultivar: GOAURI. **other id:** No. 478. Cultivar. Seed.
- PI 563362 **origin:** Burkina. **origin institute id:** IS 10190.
 cultivar: NOONINKAN. **other id:** No. 480. Cultivar.
 Seed.
- PI 563363 **origin:** Burkina. **origin institute id:** IS 10191.
 cultivar: BAMCANGA. **other id:** No. 524. Cultivar. Seed.
- PI 563364 **origin:** Burkina. **origin institute id:** IS 10192. **other**
 id: No. 649. Cultivated. Seed.
- PI 563365 **origin:** Burkina. **origin institute id:** IS 10194.
 cultivar: GBERZON. **other id:** No. 682. Cultivar. Seed.
- PI 563366 **origin:** Burkina. **origin institute id:** IS 10195. **other**
 id: No. 683. Cultivated. Seed.
- PI 563367 **origin:** France. **origin institute id:** IS 10208.
 cultivar: SORGHO 53-49. Cultivar. Seed.
- PI 563368 **origin:** France. **origin institute id:** IS 10210.
 cultivar: SORGHO 62-5. Cultivar. Seed.
- PI 563369 **origin:** France. **origin institute id:** IS 10214.
 cultivar: SORGHO 64-8. Cultivar. Seed.
- PI 563370 **origin:** France. **origin institute id:** IS 10216.
 cultivar: SORGHO 64-10. Cultivar. Seed.
- PI 563371 **origin:** France. **origin institute id:** IS 10218.
 cultivar: SORGHO 64-12. Cultivar. Seed.
- PI 563372 **origin:** United States. **origin institute id:** IS 10219.
 cultivar: DESERT BISHOP. **other id:** FC 8889. Cultivar.
 Seed.

PI 562701 to 563509-continued

- PI 563373 **origin:** United States. **origin institute id:** IS 10220.
cultivar: SMITH MUOTTY-HYBRID. **other id:** FC 3201.
Cultivar. Seed.
- PI 563374 **origin:** United States. **origin institute id:** IS 10248.
pedigree: Kafir derivative B. Cultivated. Seed.
- PI 563375 **origin:** United States. **origin institute id:** IS 10264.
cultivar: COMBINE KAFIR 610 B. Cultivar. Seed.
- PI 563376 **origin:** Japan. **origin institute id:** IS 10267.
Cultivated. Seed.
- PI 563377 **origin:** Sudan. **origin institute id:** IS 10278. **locality:**
Market sample Khartoum. Cultivated. Seed.
- PI 563378 **origin:** Sudan. **origin institute id:** IS 10279. **locality:**
Market sample Khartoum. Cultivated. Seed.
- PI 563379 **origin:** Sudan. **origin institute id:** IS 10282. **locality:**
Market sample Khartoum. Cultivated. Seed.
- PI 563380 **origin:** Sudan. **origin institute id:** IS 10283. **locality:**
Market sample Khartoum. Cultivated. Seed.
- PI 563381 **origin:** Sudan. **origin institute id:** IS 10285. **locality:**
Market sample Khartoum. Cultivated. Seed.
- PI 563382 **origin:** United States. **origin institute id:** IS 10286.
cultivar: RELIANCE B. Cultivar. Seed.
- PI 563383 **origin:** United States. **origin institute id:** IS 10290.
cultivar: SD 100. Cultivar. Seed.
- PI 563384 **origin:** United States. **origin institute id:** IS 10291.
cultivar: SD 102. Cultivar. Seed.
- PI 563385 **origin:** Nigeria. **origin institute id:** IS 10296.
remarks: GMS. Bulk I. Cultivated. Seed.
- PI 563386 **origin:** Nigeria. **origin institute id:** IS 10298.
remarks: G 26-3-1. Cultivated. Seed.
- PI 563387 **origin:** China. **origin institute id:** IS 10300. **pedigree:**
Shallu X S. Propinquum. Cultivated. Seed.
- PI 563388 **origin:** United States. **origin institute id:** IS 10308.
cultivar: ROKY 12. Cultivar. Seed.
- PI 563389 **origin:** United States. **origin institute id:** IS 10318.
cultivar: OK 24. Cultivar. Seed.

PI 562701 to 563509-continued

PI 563390 **origin:** Israel. **origin institute id:** IS 10354.
pedigree: MS 37 selection B. Cultivated. Seed.

PI 563391 **origin:** Israel. **origin institute id:** IS 10362.
cultivar: MS 601 COMBINE KAFIR B. Cultivar. Seed.

PI 563392 **origin:** Uganda. **origin institute id:** IS 10422. **other id:** E 816 B. Cultivated. Seed.

PI 563393 **origin:** Uganda. **origin institute id:** IS 10424. **other id:** E 818 B. Cultivated. Seed.

PI 563394 **origin:** Uganda. **origin institute id:** IS 10452. **other id:** E 860 B. Cultivated. Seed.

PI 563395 **origin:** Uganda. **origin institute id:** IS 10464. **other id:** E 866 B. Cultivated. Seed.

PI 563396 **origin:** Uganda. **origin institute id:** IS 10466. **other id:** E 867 B. Cultivated. Seed.

PI 563397 **origin:** Uganda. **origin institute id:** IS 10470. **other id:** E 869 B. Cultivated. Seed.

PI 563398 **origin:** United States. **origin institute id:** IS 10472.
other id: 57 M 4088. Cultivated. Seed.

PI 563399 **origin:** United States. **origin institute id:** IS 10477.
other id: 196. Cultivated. Seed.

PI 563400 **origin:** United States. **origin institute id:** IS 10489.
cultivar: WHITE WESTLAND. Cultivar. Seed.

PI 563401 **origin:** United States. **origin institute id:** IS 10491.
cultivar: WHITE WESTLAND. Cultivar. Seed.

PI 563402 **origin:** United States. **origin institute id:** IS 10497.
other id: 55 H 6095. Cultivated. Seed.

PI 563403 **origin:** United States. **origin institute id:** IS 10503.
cultivar: WESTLAND. Cultivar. Seed.

PI 563404 **origin:** United States. **origin institute id:** IS 10505.
other id: 56 H 5268. Cultivated. Seed.

PI 563405 **origin:** United States. **origin institute id:** IS 10520.
cultivar: TX 2514. Cultivar. Seed.

PI 563406 **origin:** United States. **origin institute id:** IS 10531.
cultivar: TX 2525. Cultivar. Seed.

PI 562701 to 563509-continued

PI 563407 **origin:** United States. **origin institute id:** IS 10533.
 cultivar: TX 2527. Cultivar. Seed.

PI 563408 **origin:** United States. **origin institute id:** IS 10534.
 cultivar: TX 2528. Cultivar. Seed.

PI 563409 **origin:** United States. **origin institute id:** IS 10536.
 cultivar: TX 2530. Cultivar. Seed.

PI 563410 **origin:** United States. **origin institute id:** IS 10547.
 cultivar: TX 2541. Cultivar. Seed.

PI 563411 **origin:** United States. **origin institute id:** IS 10548.
 cultivar: RTX 411. Cultivar. Seed.

PI 563412 **origin:** United States. **origin institute id:** IS 10550.
 cultivar: RTX 414. Cultivar. Seed.

PI 563413 **origin:** United States. **origin institute id:** IS 10551.
 cultivar: RTX 415. Cultivar. Seed.

PI 563414 **origin:** United States. **origin institute id:** IS 10552.
 cultivar: RTX 416. Cultivar. Seed.

PI 563415 **origin:** United States. **origin institute id:** IS 10553.
 cultivar: RTX 417. Cultivar. Seed.

PI 563416 **origin:** United States. **origin institute id:** IS 10554.
 cultivar: RTX 418. Cultivar. Seed.

PI 563417 **origin:** United States. **origin institute id:** IS 10555.
 cultivar: RTX 419. Cultivar. Seed.

PI 563418 **origin:** United States. **origin institute id:** IS 10558.
 cultivar: TX 616 B. Cultivar. Seed.

PI 563419 **origin:** United States. **origin institute id:** IS 10570.
 cultivar: TX 604 B. Cultivar. Seed.

PI 563420 **origin:** United States. **origin institute id:** IS 10574.
 cultivar: TX 610 B. Cultivar. Seed.

PI 563421 **origin:** United States. **origin institute id:** IS 10592.
 cultivar: TX 3920 B. Cultivar. Seed.

PI 563422 **origin:** United States. **origin institute id:** IS 10671.
 cultivar: DWARF IMPROVED KAFIR. Cultivar. Seed.

PI 563423 **origin:** United States. **origin institute id:** IS 10672.
 cultivar: DOUBLE DWARF 38. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563424 **origin:** United States. **origin institute id:** IS 10673. **cultivar:** IV 581845. Cultivar. Seed.
- PI 563425 **origin:** China. **origin institute id:** IS 10674. **cultivar:** REDBINE MAINTAINEE. Cultivar. Seed.
- PI 563426 **origin:** China. **origin institute id:** IS 10678. **cultivar:** 4 DWARF KAFIR DER. **other id:** MS SA 616. Cultivar. Seed.
- PI 563427 **origin:** United States. **origin institute id:** IS 10703. **cultivar:** SUGARY KAFIR. Cultivar. Seed.
- PI 563428 **origin:** United States. **origin institute id:** IS 10708. **cultivar:** RODESIAN SUDANGRASS TALL B LINE. Cultivar. Seed.
- PI 563429 **origin:** United States. **origin institute id:** IS 10715. **other id:** 0819. Cultivated. Seed.
- PI 563430 **origin:** United States. **origin institute id:** IS 10722. **other id:** 1727. Cultivated. Seed.
- PI 563431 **origin:** United States. **origin institute id:** IS 10724. **other id:** 2310. Cultivated. Seed.
- PI 563432 **origin:** United States. **origin institute id:** IS 10726. Cultivated. Seed.
- PI 563433 **origin:** United States. **origin institute id:** IS 10731. **other id:** 5342. Cultivated. Seed.
- PI 563434 **origin:** Chad. **origin institute id:** IS 10739. **cultivar:** GALANG WALIMA. **other id:** No. 380. Cultivar. Seed.
- PI 563435 **origin:** Chad. **origin institute id:** IS 10753. **cultivar:** OVA KELA. **other id:** No. 708. Cultivar. Seed.
- PI 563436 **origin:** Chad. **origin institute id:** IS 10777. **cultivar:** OUA KELAKASS. **other id:** No. 978. Cultivar. Seed.
- PI 563437 **origin:** Chad. **origin institute id:** IS 10786. **cultivar:** GOP. **other id:** No. 1032. Cultivar. Seed.
- PI 563438 **origin:** Chad. **origin institute id:** IS 10797. **cultivar:** OUA KASS. **other id:** No. 1168. Cultivar. Seed.
- PI 563439 **origin:** Chad. **origin institute id:** IS 10810. **cultivar:** OUA KOLL. **other id:** No. 1360. Cultivar. Seed.
- PI 563440 **origin:** Chad. **origin institute id:** IS 10819. **cultivar:** OUA KASS. **other id:** No. 1439. Cultivar. Seed.

PI 562701 to 563509-continued

- PI 563441 **origin:** Chad. **origin institute id:** IS 10833. **cultivar:** TCHOKOLUM. **other id:** No. 1536. Cultivar. Seed.
- PI 563442 **origin:** Chad. **origin institute id:** IS 10835. **cultivar:** TCHOKOLUM. **other id:** No. 1538. Cultivar. Seed.
- PI 563443 **origin:** Nigeria. **origin institute id:** IS 10875. **cultivar:** JIKAKA GERO. **other id:** BO 29. Cultivar. Seed.
- PI 563444 **origin:** Nigeria. **origin institute id:** IS 10881. **cultivar:** RED BWANKUM. **other id:** PL 1. Cultivar. Seed.
- PI 563445 **origin:** Nigeria. **origin institute id:** IS 10884. **cultivar:** JAN BWANKUM. **other id:** PL 49. Cultivar. Seed.
- PI 563446 **origin:** India. **origin institute id:** IS 10897. **cultivar:** FEROZEPUR 13595. Cultivar. Seed.
- PI 563447 **origin:** United States. **origin institute id:** IS 10917. **pedigree:** Early selection from S.L.M. Cultivated. Seed.
- PI 563448 **origin:** United States. **origin institute id:** IS 10919. **pedigree:** Atlas X Short Kaura. Cultivated. Seed.
- PI 563449 **origin:** United States. **origin institute id:** IS 10920. **pedigree:** Coes X White Martin. Cultivated. Seed.
- PI 563450 **origin:** United States. **origin institute id:** IS 10921. **pedigree:** Short Kaura X CK 60 Kurgi. Cultivated. Seed.
- PI 563451 **origin:** United States. **origin institute id:** IS 10927. **pedigree:** 5726 X TX Yellow 5818-8. Cultivated. Seed.
- PI 563452 **origin:** United States. **origin institute id:** IS 10929. **pedigree:** 5726 X TX Yellow 5818-8. Cultivated. Seed.
- PI 563453 **origin:** United States. **origin institute id:** IS 10931. **pedigree:** 5727 X Ck 60 Kurgi 5821-7. Cultivated. Seed.
- PI 563454 **origin:** United States. **origin institute id:** IS 10932. **pedigree:** 5727 X Ck 60 Kurgi 5821-8. Cultivated. Seed.
- PI 563455 **origin:** United States. **origin institute id:** IS 10933. **pedigree:** 5727 X TX Yellow 5822-10. Cultivated. Seed.
- PI 563456 **origin:** United States. **origin institute id:** IS 10937. **pedigree:** Selection from OP Yellow Cross. Cultivated. Seed.

PI 562701 to 563509-continued

PI 563457	origin: United States. origin institute id: IS 10938. pedigree: Selection from OP Yellow Cross. Cultivated. Seed.
PI 563458	origin: United States. origin institute id: IS 10966. Cultivated. Seed.
PI 563459	origin: United States. origin institute id: IS 10967. Cultivated. Seed.
PI 563460	origin: United States. origin institute id: IS 10968. Cultivated. Seed.
PI 563461	origin: United States. origin institute id: IS 10974. Cultivated. Seed.
PI 563462	origin: United States. origin institute id: IS 10977. Cultivated. Seed.
PI 563463	origin: United States. origin institute id: IS 10980. Cultivated. Seed.
PI 563464	origin: United States. origin institute id: IS 10984. Cultivated. Seed.
PI 563465	origin: United States. origin institute id: IS 10987. Cultivated. Seed.
PI 563466	origin: United States. origin institute id: IS 10988. Cultivated. Seed.
PI 563467	origin: United States. origin institute id: IS 10989. Cultivated. Seed.
PI 563468	origin: United States. origin institute id: IS 10991. Cultivated. Seed.
PI 563469	origin: United States. origin institute id: IS 10995. Cultivated. Seed.
PI 563470	origin: United States. origin institute id: IS 10996. Cultivated. Seed.
PI 563471	origin: United States. origin institute id: IS 10997. Cultivated. Seed.
PI 563472	origin: United States. origin institute id: IS 10999. Cultivated. Seed.
PI 563473	origin: United States. origin institute id: IS 11000. Cultivated. Seed.

PI 562701 to 563509-continued

- PI 563474 **origin:** United States. **origin institute id:** IS 11001.
Cultivated. Seed.
- PI 563475 **origin:** United States. **origin institute id:** IS 11002.
Cultivated. Seed.
- PI 563476 **origin:** United States. **origin institute id:** IS 11003.
Cultivated. Seed.
- PI 563477 **origin:** Nepal. **origin institute id:** IS 12274. **cultivar:**
SORGHUM OLES. **other id:** D2-GC-No.59. Cultivar. Seed.
- PI 563478 **origin:** Nigeria. **origin institute id:** IS 12327.
cultivar: MR 7/MR 7. Cultivar. Seed.
- PI 563479 **origin:** Nigeria. **origin institute id:** IS 12328.
cultivar: MR 3/MR 3. Cultivar. Seed.
- PI 563480 **origin:** Nigeria. **origin institute id:** IS 12329.
cultivar: MR MR AA V-10 10X MR MR. Cultivar. Seed.
- PI 563481 **origin:** Nigeria. **origin institute id:** IS 12330.
cultivar: MR 1 68-384. Cultivar. Seed.
- PI 563482 **origin:** Senegal. **origin institute id:** IS 12336.
Cultivated. Seed.
- PI 563483 **origin:** Senegal. **origin institute id:** IS 12339.
Cultivated. Seed.
- PI 563484 **origin:** Senegal. **origin institute id:** IS 12357.
Cultivated. Seed.
- PI 563485 **origin:** Senegal. **origin institute id:** IS 12367.
Cultivated. Seed.
- PI 563486 **origin:** Senegal. **origin institute id:** IS 12368.
Cultivated. Seed.
- PI 563487 **origin:** Mali. **origin institute id:** IS 12374.
Cultivated. Seed.
- PI 563488 **origin:** Benin. **origin institute id:** IS 12399.
Cultivated. Seed.
- PI 563489 **origin:** Nigeria. **origin institute id:** IS 12411.
Cultivated. Seed.
- PI 563490 **origin:** Nigeria. **origin institute id:** IS 12412.
Cultivated. Seed.

PI 562701 to 563509-continued

PI 563491 **origin:** Nigeria. **origin institute id:** IS 12413.
Cultivated. Seed.

PI 563492 **origin:** Nigeria. **origin institute id:** IS 12420.
Cultivated. Seed.

PI 563493 **origin:** Sudan. **origin institute id:** IS 12447.
Cultivated. Seed.

PI 563494 **origin:** Sudan. **origin institute id:** IS 12448.
Cultivated. Seed.

PI 563495 **origin:** Sudan. **origin institute id:** IS 12449.
Cultivated. Seed.

PI 563496 **origin:** Sudan. **origin institute id:** IS 12452.
Cultivated. Seed.

PI 563497 **origin:** Sudan. **origin institute id:** IS 12454.
Cultivated. Seed.

PI 563498 **origin:** Sudan. **origin institute id:** IS 12456.
Cultivated. Seed.

PI 563499 **origin:** Sudan. **origin institute id:** IS 12459.
Cultivated. Seed.

PI 563500 **origin:** Sudan. **origin institute id:** IS 12465.
Cultivated. Seed.

PI 563501 **origin:** Sudan. **origin institute id:** IS 12466.
Cultivated. Seed.

PI 563502 **origin:** Chad. **origin institute id:** IS 12486.
Cultivated. Seed.

PI 563503 **origin:** Chad. **origin institute id:** IS 12494.
Cultivated. Seed.

PI 563504 **origin:** Chad. **origin institute id:** IS 12496.
Cultivated. Seed.

PI 563505 **origin:** Chad. **origin institute id:** IS 12503.
Cultivated. Seed.

PI 563506 **origin:** Chad. **origin institute id:** IS 12507.
Cultivated. Seed.

PI 563507 **origin:** India. **origin institute id:** IS 12680. **other id:**
CI 1197. Cultivated. Seed.

PI 562701 to 563509-continued

PI 563508 **origin:** Nigeria. **origin institute id:** IS 12684. **other id:** SA 1995. Cultivated. Seed.

PI 563509 **origin:** Ethiopia. **origin institute id:** IS 12685. **other id:** SA 2386. Cultivated. Seed.

PI 563510 to 563513. *Sorghum arundinaceum* (Desv.) Stapf POACEAE

Donated by: ICRISAT, Patancheru, Andhra Pradesh 502 324, India.
Received October 09, 1992.

PI 563510 **origin:** Burkina. **origin institute id:** IS 6834. **other id:** EC 25226. Cultivated. Seed.

PI 563511 **origin:** Ivory Coast. **origin institute id:** IS 12427. Cultivated. Seed.

PI 563512 **origin:** Sudan. **origin institute id:** IS 12431. Cultivated. Seed.

PI 563513 **origin:** Sudan. **origin institute id:** IS 12472. Cultivated. Seed.

PI 563514. *Sorghum halepense* (L.) Pers. POACEAE

Donated by: ICRISAT, Patancheru, Andhra Pradesh 502 324, India.
Received October 09, 1992.

origin: India. **origin institute id:** IS 8329. **locality:** Junagadh. Cultivated. Seed.

PI 563515 to 563516. *Sorghum x alnum* L. Parodi POACEAE

Donated by: ICRISAT, Patancheru, Andhra Pradesh 502 324, India.
Received October 09, 1992.

PI 563515 **origin:** Mali. **origin institute id:** IS 12380. Cultivated. Seed.

PI 563516 **origin:** Mali. **origin institute id:** IS 12381. Cultivated. Seed.

PI 563517 to 563550. *Sorghum bicolor* (L.) Moench POACEAE *Sorghum*

Donated by: Xiu Qing, I., Heilongjiang Acad. of Agric. Sciences, Harbin, Heilongjiang, China. **remarks:** Received through China-United States Sorghum Germplasm Exchange Program. Quarantine inspection ref. BE 4243. Received September 22, 1992.

PI 563517 to 563550-continued

- PI 563517 **donor id:** 294B. **origin:** China. **cultivar:** HEILONG STERILE #1-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.
- PI 563518 **donor id:** 296B. **origin:** China. **cultivar:** HEILONG STERILE #7-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.
- PI 563519 **donor id:** 298B. **origin:** China. **cultivar:** HEILONG STERILE #11-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.
- PI 563520 **donor id:** 300B. **origin:** China. **cultivar:** HEILONG STERILE #14-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.
- PI 563521 **donor id:** 304B. **origin:** China. **cultivar:** HEILONG STERILE #30-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.
- PI 563522 **donor id:** 8714B. **origin:** China. **cultivar:** HEILONG STERILE #4-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.
- PI 563523 **donor id:** 8726B. **origin:** China. **cultivar:** HEILONG STERILE #23-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.
- PI 563524 **donor id:** 8734B. **origin:** China. **cultivar:** HEILONG STERILE #48-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.
- PI 563525 **donor id:** 8736B. **origin:** China. **cultivar:** HEILONG STERILE #50-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.
- PI 563526 **donor id:** 8740B. **origin:** China. **cultivar:** HEILONG STERILE #53-B. **remarks:** Fertility restorer. Heilong refers to Heilongjiang Province. Breeding Material. Seed.

PI 563517 to 563550-continued

- PI 563527 donor id: 4426. origin: China. cultivar: HA
FERTILITY-RESTORING #5. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563528 donor id: 4427. origin: China. cultivar: HA
FERTILITY-RESTORING #20. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563529 donor id: 4438. origin: China. cultivar: SUI
FERTILITY-RESTORING #1. remarks: Fertility restorer. Sui
refers to Suihua. Breeding Material. Seed.
- PI 563530 donor id: 8567. origin: China. cultivar: HA
FERTILITY-RESTORING #3. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563531 donor id: 8568. origin: China. cultivar: HA
FERTILITY-RESTORING #4. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563532 donor id: 8569. origin: China. cultivar: HA
FERTILITY-RESTORING #9. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563533 donor id: 8570. origin: China. cultivar: HA
FERTILITY-RESTORING #13. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563534 donor id: 8571. origin: China. cultivar: HA
FERTILITY-RESTORING #15. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563535 donor id: 8572. origin: China. cultivar: HA
FERTILITY-RESTORING #16. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563536 donor id: 8573. origin: China. cultivar: HA
FERTILITY-RESTORING #17. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563537 donor id: 8574. origin: China. cultivar: HA
FERTILITY-RESTORING #21. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563538 donor id: 8575. origin: China. cultivar: HA
FERTILITY-RESTORING #23. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.
- PI 563539 donor id: 8581. origin: China. cultivar: HA
FERTILITY-RESTORING #39. remarks: Fertility restorer. Ha
refers to Harbin City. Breeding Material. Seed.

PI 563517 to 563550-continued

- PI 563540 **donor id:** 54. **origin:** China. **cultivar:** SUIHUA BIG SNAKE EYE. **remarks:** Local variety. Suihua local place name. Cultivar. Seed.
- PI 563541 **donor id:** 117. **origin:** China. **cultivar:** WUCHANG GONG HAMMER. **remarks:** Local variety. Wuchang local place name. Cultivar. Seed.
- PI 563542 **donor id:** 4108. **origin:** China. **cultivar:** MULAN SMALL RED SHELL. **remarks:** Local variety. Mulan local place name. Cultivar. Seed.
- PI 563543 **donor id:** 4109. **origin:** China. **cultivar:** HULAN SMALL RED SHELL. **remarks:** Local variety. Hulan local place name. Cultivar. Seed.
- PI 563544 **donor id:** 4114. **origin:** China. **cultivar:** WUCHANG SMALL RED SHELL. **remarks:** Local variety. Wuchang local place name. Cultivar. Seed.
- PI 563545 **donor id:** 4132. **origin:** China. **cultivar:** FUJIN SMALL RED SHELL. **remarks:** Local variety. Fujin local place name. Cultivar. Seed.
- PI 563546 **donor id:** 4208. **origin:** China. **cultivar:** BAIQUAN RED SHELL. **remarks:** Local variety. Baiquan local place name. Cultivar. Seed.
- PI 563547 **donor id:** 4234. **origin:** China. **cultivar:** MULAN RED SHELL. **remarks:** Local variety. Mulan local place name. Cultivar. Seed.
- PI 563548 **donor id:** 4235. **origin:** China. **cultivar:** BAYAN RED SHELL BAYE. **remarks:** Local variety. Baye means 8 leaves. Bayan local place name. Cultivar. Seed.
- PI 563549 **donor id:** 4236. **origin:** China. **cultivar:** BIN COUNTY RED SHELL BAYE. **remarks:** Local variety. Baye means 8 leaves. Bin County local place name. Cultivar. Seed.
- PI 563550 **donor id:** 4402. **origin:** China. **cultivar:** TANGYUAN TILTED NECK ZHANG. Cultivar. Seed.

PI 563551 to 563567. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Liaoning Acad. of Agric. Sciences, Shenyang, Liaoning, China. **remarks:** Received through China-United States Sorghum Germplasm Exchange Program. Quarantine inspection ref. BE 4243. Received September 22, 1992.

PI 563551 to 563567-continued

PI 563551	donor id: 1. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563552	donor id: 29. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563553	donor id: 30. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563554	donor id: 58. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563555	donor id: 59. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563556	donor id: 68. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563557	donor id: 73. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563558	donor id: 94. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563559	donor id: 129. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563560	donor id: 158. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563561	donor id: 166. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563562	donor id: 245. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563563	donor id: 290. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563564	donor id: 346. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563565	donor id: 347. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563566	donor id: 348. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum
PI 563567	donor id: 380. origin: China. vulgare. Cultivated. Seed.	received as: Sorghum

PI 563568 to 563845. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Liaoning Acad. of Agric. Sciences, Shenyang, Liaoning, China. **remarks:** Received through China-United States Sorghum Germplasm Exchange Program. Quarantine inspection ref. BE 4263. Received September 22, 1992.

PI 563568	donor id: LV 1.	origin: China.	Breeding Material. Seed.
PI 563569	donor id: LV 29.	origin: China.	Breeding Material. Seed.
PI 563570	donor id: LV 30.	origin: China.	Breeding Material. Seed.
PI 563571	donor id: LV 39.	origin: China.	Breeding Material. Seed.
PI 563572	donor id: LV 58.	origin: China.	Breeding Material. Seed.
PI 563573	donor id: LV 68.	origin: China.	Breeding Material. Seed.
PI 563574	donor id: LV 73.	origin: China.	Breeding Material. Seed.
PI 563575	donor id: LV 94.	origin: China.	Breeding Material. Seed.
PI 563576	donor id: LV 129.	origin: China.	Breeding Material. Seed.
PI 563577	donor id: LV 158.	origin: China.	Breeding Material. Seed.
PI 563578	donor id: LV 166.	origin: China.	Breeding Material. Seed.
PI 563579	donor id: LV 245.	origin: China.	Breeding Material. Seed.
PI 563580	donor id: LV 290.	origin: China.	Breeding Material. Seed.
PI 563581	donor id: LR 304.	origin: China.	Breeding Material. Seed.
PI 563582	donor id: LR 305.	origin: China.	Breeding Material. Seed.
PI 563583	donor id: LR 306.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563584	donor id: LR 311.	origin: China.	Breeding Material. Seed.
PI 563585	donor id: LV 346.	origin: China.	Breeding Material. Seed.
PI 563586	donor id: LV 347.	origin: China.	Breeding Material. Seed.
PI 563587	donor id: LV 348.	origin: China.	Breeding Material. Seed.
PI 563588	donor id: LR 366.	origin: China.	Breeding Material. Seed.
PI 563589	donor id: LR 367.	origin: China.	Breeding Material. Seed.
PI 563590	donor id: LR 368.	origin: China.	Breeding Material. Seed.
PI 563591	donor id: LR 369.	origin: China.	Breeding Material. Seed.
PI 563592	donor id: LR 370.	origin: China.	Breeding Material. Seed.
PI 563593	donor id: LR 371.	origin: China.	Breeding Material. Seed.
PI 563594	donor id: LR 372.	origin: China.	Breeding Material. Seed.
PI 563595	donor id: LR 373.	origin: China.	Breeding Material. Seed.
PI 563596	donor id: LR 374.	origin: China.	Breeding Material. Seed.
PI 563597	donor id: LR 376.	origin: China.	Breeding Material. Seed.
PI 563598	donor id: LR 377.	origin: China.	Breeding Material. Seed.
PI 563599	donor id: LR 378.	origin: China.	Breeding Material. Seed.
PI 563600	donor id: LR 379.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563601	donor id: LR 380.	origin: China.	Breeding Material. Seed.
PI 563602	donor id: LV 380.	origin: China.	Breeding Material. Seed.
PI 563603	donor id: LR 381.	origin: China.	Breeding Material. Seed.
PI 563604	donor id: LR 383.	origin: China.	Breeding Material. Seed.
PI 563605	donor id: LR 384.	origin: China.	Breeding Material. Seed.
PI 563606	donor id: LR 385.	origin: China.	Breeding Material. Seed.
PI 563607	donor id: LR 386.	origin: China.	Breeding Material. Seed.
PI 563608	donor id: LR 387.	origin: China.	Breeding Material. Seed.
PI 563609	donor id: LR 388.	origin: China.	Breeding Material. Seed.
PI 563610	donor id: LR 389.	origin: China.	Breeding Material. Seed.
PI 563611	donor id: LR 390.	origin: China.	Breeding Material. Seed.
PI 563612	donor id: LR 395.	origin: China.	Breeding Material. Seed.
PI 563613	donor id: LR 397.	origin: China.	Breeding Material. Seed.
PI 563614	donor id: LR 399.	origin: China.	Breeding Material. Seed.
PI 563615	donor id: LR 401.	origin: China.	Breeding Material. Seed.
PI 563616	donor id: LR 402.	origin: China.	Breeding Material. Seed.
PI 563617	donor id: LR 405.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563618	donor id: LR 407.	origin: China.	Breeding Material. Seed.
PI 563619	donor id: LR 408.	origin: China.	Breeding Material. Seed.
PI 563620	donor id: LR 409.	origin: China.	Breeding Material. Seed.
PI 563621	donor id: LR 410.	origin: China.	Breeding Material. Seed.
PI 563622	donor id: LR 412.	origin: China.	Breeding Material. Seed.
PI 563623	donor id: LR 414.	origin: China.	Breeding Material. Seed.
PI 563624	donor id: LR 415.	origin: China.	Breeding Material. Seed.
PI 563625	donor id: LR 417-1.	origin: China.	Breeding Material. Seed.
PI 563626	donor id: LR 417-2.	origin: China.	Breeding Material. Seed.
PI 563627	donor id: LR 418.	origin: China.	Breeding Material. Seed.
PI 563628	donor id: LR 419.	origin: China.	Breeding Material. Seed.
PI 563629	donor id: LR 420.	origin: China.	Breeding Material. Seed.
PI 563630	donor id: LR 421.	origin: China.	Breeding Material. Seed.
PI 563631	donor id: LR 422.	origin: China.	Breeding Material. Seed.
PI 563632	donor id: LR 423.	origin: China.	Breeding Material. Seed.
PI 563633	donor id: LR 424.	origin: China.	Breeding Material. Seed.
PI 563634	donor id: LR 427.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563635	donor id: LR 430.	origin: China.	Breeding Material. Seed.
PI 563636	donor id: LR 431.	origin: China.	Breeding Material. Seed.
PI 563637	donor id: LR 431-1.	origin: China.	Breeding Material. Seed.
PI 563638	donor id: LR 431-2.	origin: China.	Breeding Material. Seed.
PI 563639	donor id: LR 432-1.	origin: China.	Breeding Material. Seed.
PI 563640	donor id: LR 432-2.	origin: China.	Breeding Material. Seed.
PI 563641	donor id: LR 433.	origin: China.	Breeding Material. Seed.
PI 563642	donor id: L 1095B.	origin: China.	Breeding Material. Seed.
PI 563643	donor id: L 1097B.	origin: China.	Breeding Material. Seed.
PI 563644	donor id: L 1098B.	origin: China.	Breeding Material. Seed.
PI 563645	donor id: L 1258B.	origin: China.	Breeding Material. Seed.
PI 563646	donor id: L 1259B.	origin: China.	Breeding Material. Seed.
PI 563647	donor id: L 1506B.	origin: China.	Breeding Material. Seed.
PI 563648	donor id: L 1602B-1.	origin: China.	Breeding Material. Seed.
PI 563649	donor id: L 1602B-2.	origin: China.	Breeding Material. Seed.
PI 563650	donor id: L 1603B.	origin: China.	Breeding Material. Seed.
PI 563651	donor id: L 1624B.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563652 **donor id:** L 1625B. **origin:** China. Breeding Material.
Seed.

PI 563653 **donor id:** L 1788B. **origin:** China. Breeding Material.
Seed.

PI 563654 **donor id:** L 1790B-1. **origin:** China. Breeding Material.
Seed.

PI 563655 **donor id:** L 1790B-2. **origin:** China. Breeding Material.
Seed.

PI 563656 **donor id:** L 1791B. **origin:** China. Breeding Material.
Seed.

PI 563657 **donor id:** L 1985B. **origin:** China. Breeding Material.
Seed.

PI 563658 **donor id:** L 1986B. **origin:** China. Breeding Material.
Seed.

PI 563659 **donor id:** L 1988B. **origin:** China. Breeding Material.
Seed.

PI 563660 **donor id:** L 1996B. **origin:** China. Breeding Material.
Seed.

PI 563661 **donor id:** L 1997B. **origin:** China. Breeding Material.
Seed.

PI 563662 **donor id:** L 1998B. **origin:** China. Breeding Material.
Seed.

PI 563663 **donor id:** L 1999B-3. **origin:** China. Breeding Material.
Seed.

PI 563664 **donor id:** L 1999B-5. **origin:** China. Breeding Material.
Seed.

PI 563665 **donor id:** L 1999B-8. **origin:** China. Breeding Material.
Seed.

PI 563666 **donor id:** L 1999B-11. **origin:** China. Breeding Material.
Seed.

PI 563667 **donor id:** L 1999B-13. **origin:** China. Breeding Material.
Seed.

PI 563668 **donor id:** L 1999B-14. **origin:** China. Breeding Material.
Seed.

PI 563568 to 563845-continued

PI 563669 donor id: L 1999B-15. origin: China. Breeding Material.
Seed.

PI 563670 donor id: L 1999B-17. origin: China. Breeding Material.
Seed.

PI 563671 donor id: L 1999B-18. origin: China. Breeding Material.
Seed.

PI 563672 donor id: LR 2409. origin: China. Breeding Material.
Seed.

PI 563673 donor id: LR 2410. origin: China. Breeding Material.
Seed.

PI 563674 donor id: LR 2412-1. origin: China. Breeding Material.
Seed.

PI 563675 donor id: LR 2412-2. origin: China. Breeding Material.
Seed.

PI 563676 donor id: LR 2417(a). origin: China. Breeding Material.
Seed.

PI 563677 donor id: L 2417(b). origin: China. Breeding Material.
Seed.

PI 563678 donor id: LR 2418. origin: China. Breeding Material.
Seed.

PI 563679 donor id: LR 2420-1. origin: China. Breeding Material.
Seed.

PI 563680 donor id: LR 2420-2. origin: China. Breeding Material.
Seed.

PI 563681 donor id: LR 2421. origin: China. Breeding Material.
Seed.

PI 563682 donor id: LR 2428. origin: China. Breeding Material.
Seed.

PI 563683 donor id: LR 2432-1. origin: China. Breeding Material.
Seed.

PI 563684 donor id: LR 2432-2. origin: China. Breeding Material.
Seed.

PI 563685 donor id: LR 2432-3. origin: China. Breeding Material.
Seed.

PI 563568 to 563845-continued

PI 563686	donor id: LR 2433.	origin: China.	Breeding Material. Seed.
PI 563687	donor id: LR 2452.	origin: China.	Breeding Material. Seed.
PI 563688	donor id: LR 2462-1.	origin: China.	Breeding Material. Seed.
PI 563689	donor id: LR 2462-2.	origin: China.	Breeding Material. Seed.
PI 563690	donor id: LR 2463.	origin: China.	Breeding Material. Seed.
PI 563691	donor id: LR 2466.	origin: China.	Breeding Material. Seed.
PI 563692	donor id: LR 2470-1.	origin: China.	Breeding Material. Seed.
PI 563693	donor id: LR 2470-2.	origin: China.	Breeding Material. Seed.
PI 563694	donor id: LR 2471.	origin: China.	Breeding Material. Seed.
PI 563695	donor id: LR 2472-1.	origin: China.	Breeding Material. Seed.
PI 563696	donor id: LR 2472-2.	origin: China.	Breeding Material. Seed.
PI 563697	donor id: LR 2480-1.	origin: China.	Breeding Material. Seed.
PI 563698	donor id: LR 2480-2.	origin: China.	Breeding Material. Seed.
PI 563699	donor id: LR 2483-1.	origin: China.	Breeding Material. Seed.
PI 563700	donor id: LR 2483-2.	origin: China.	Breeding Material. Seed.
PI 563701	donor id: LR 2490-1.	origin: China.	Breeding Material. Seed.
PI 563702	donor id: LR 2490-2.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563703	donor id: LR 2490-3.	origin: China.	Breeding Material. Seed.
PI 563704	donor id: LR 2493.	origin: China.	Breeding Material. Seed.
PI 563705	donor id: LR 2505.	origin: China.	Breeding Material. Seed.
PI 563706	donor id: LR 2507.	origin: China.	Breeding Material. Seed.
PI 563707	donor id: LR 2509.	origin: China.	Breeding Material. Seed.
PI 563708	donor id: LR 2514.	origin: China.	Breeding Material. Seed.
PI 563709	donor id: LR 2518.	origin: China.	Breeding Material. Seed.
PI 563710	donor id: LR 2519.	origin: China.	Breeding Material. Seed.
PI 563711	donor id: LR 2528.	origin: China.	Breeding Material. Seed.
PI 563712	donor id: LR 2531.	origin: China.	Breeding Material. Seed.
PI 563713	donor id: LR 2532.	origin: China.	Breeding Material. Seed.
PI 563714	donor id: LR 2533-1.	origin: China.	Breeding Material. Seed.
PI 563715	donor id: LR 2533-2.	origin: China.	Breeding Material. Seed.
PI 563716	donor id: LR 2534.	origin: China.	Breeding Material. Seed.
PI 563717	donor id: LR 2535-1.	origin: China.	Breeding Material. Seed.
PI 563718	donor id: LR 2535-2.	origin: China.	Breeding Material. Seed.
PI 563719	donor id: LR 2537.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563720	donor id: LR 2538.	origin: China.	Breeding Material. Seed.
PI 563721	donor id: LR 2542.	origin: China.	Breeding Material. Seed.
PI 563722	donor id: LR 2548.	origin: China.	Breeding Material. Seed.
PI 563723	donor id: LR 2553.	origin: China.	Breeding Material. Seed.
PI 563724	donor id: LR 2554.	origin: China.	Breeding Material. Seed.
PI 563725	donor id: LR 2556-1.	origin: China.	Breeding Material. Seed.
PI 563726	donor id: LR 2556-2.	origin: China.	Breeding Material. Seed.
PI 563727	donor id: LR 2572.	origin: China.	Breeding Material. Seed.
PI 563728	donor id: LR 2578.	origin: China.	Breeding Material. Seed.
PI 563729	donor id: LR 2586.	origin: China.	Breeding Material. Seed.
PI 563730	donor id: LR 2609.	origin: China.	Breeding Material. Seed.
PI 563731	donor id: LR 2616-1.	origin: China.	Breeding Material. Seed.
PI 563732	donor id: LR 2616-2.	origin: China.	Breeding Material. Seed.
PI 563733	donor id: LR 2616-3.	origin: China.	Breeding Material. Seed.
PI 563734	donor id: LR 2621.	origin: China.	Breeding Material. Seed.
PI 563735	donor id: LR 2626.	origin: China.	Breeding Material. Seed.
PI 563736	donor id: LR 2628-1.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563737	donor id: LR 2628-2.	origin: China.	Breeding Material. Seed.
PI 563738	donor id: LR 2629.	origin: China.	Breeding Material. Seed.
PI 563739	donor id: LR 2630.	origin: China.	Breeding Material. Seed.
PI 563740	donor id: LR 2632.	origin: China.	Breeding Material. Seed.
PI 563741	donor id: LR 2636.	origin: China.	Breeding Material. Seed.
PI 563742	donor id: LR 2657.	origin: China.	Breeding Material. Seed.
PI 563743	donor id: LR 2658-1.	origin: China.	Breeding Material. Seed.
PI 563744	donor id: LR 2658-2.	origin: China.	Breeding Material. Seed.
PI 563745	donor id: LR 2659.	origin: China.	Breeding Material. Seed.
PI 563746	donor id: LR 2662-1.	origin: China.	Breeding Material. Seed.
PI 563747	donor id: LR 2662-2.	origin: China.	Breeding Material. Seed.
PI 563748	donor id: LR 2668-1.	origin: China.	Breeding Material. Seed.
PI 563749	donor id: LR 2668-2.	origin: China.	Breeding Material. Seed.
PI 563750	donor id: LR 2669-1.	origin: China.	Breeding Material. Seed.
PI 563751	donor id: LR 2669-2.	origin: China.	Breeding Material. Seed.
PI 563752	donor id: LR 2671-1.	origin: China.	Breeding Material. Seed.
PI 563753	donor id: LR 2671-2.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563754	donor id: LR 2672.	origin: China.	Breeding Material. Seed.
PI 563755	donor id: LR 2676-1.	origin: China.	Breeding Material. Seed.
PI 563756	donor id: LR 2676-2.	origin: China.	Breeding Material. Seed.
PI 563757	donor id: LR 2680-1.	origin: China.	Breeding Material. Seed.
PI 563758	donor id: LR 2680-2.	origin: China.	Breeding Material. Seed.
PI 563759	donor id: LR 2680-3.	origin: China.	Breeding Material. Seed.
PI 563760	donor id: LR 2683.	origin: China.	Breeding Material. Seed.
PI 563761	donor id: LR 2704-1.	origin: China.	Breeding Material. Seed.
PI 563762	donor id: LR 2704-2.	origin: China.	Breeding Material. Seed.
PI 563763	donor id: LR 2705.	origin: China.	Breeding Material. Seed.
PI 563764	donor id: LR 2707.	origin: China.	Breeding Material. Seed.
PI 563765	donor id: LR 2711.	origin: China.	Breeding Material. Seed.
PI 563766	donor id: LR 2712.	origin: China.	Breeding Material. Seed.
PI 563767	donor id: LR 2713.	origin: China.	Breeding Material. Seed.
PI 563768	donor id: LR 2715.	origin: China.	Breeding Material. Seed.
PI 563769	donor id: LR 2716.	origin: China.	Breeding Material. Seed.
PI 563770	donor id: LR 2718.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563771	donor id: LR 2719.	origin: China.	Breeding Material. Seed.
PI 563772	donor id: LR 2721.	origin: China.	Breeding Material. Seed.
PI 563773	donor id: LR 2724-1.	origin: China.	Breeding Material. Seed.
PI 563774	donor id: LR 2724-2.	origin: China.	Breeding Material. Seed.
PI 563775	donor id: LR 2727-1.	origin: China.	Breeding Material. Seed.
PI 563776	donor id: LR 2727-2.	origin: China.	Breeding Material. Seed.
PI 563777	donor id: LR 2728-1.	origin: China.	Breeding Material. Seed.
PI 563778	donor id: LR 2728-2.	origin: China.	Breeding Material. Seed.
PI 563779	donor id: LR 2734.	origin: China.	Breeding Material. Seed.
PI 563780	donor id: LR 2736.	origin: China.	Breeding Material. Seed.
PI 563781	donor id: LR 2739.	origin: China.	Breeding Material. Seed.
PI 563782	donor id: LR 2742.	origin: China.	Breeding Material. Seed.
PI 563783	donor id: LR 2748-1.	origin: China.	Breeding Material. Seed.
PI 563784	donor id: LR 2748-2.	origin: China.	Breeding Material. Seed.
PI 563785	donor id: LR 2750-1.	origin: China.	Breeding Material. Seed.
PI 563786	donor id: LR 2750-2.	origin: China.	Breeding Material. Seed.
PI 563787	donor id: LR 2751.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563788 donor id: LR 2753. origin: China. Breeding Material.
Seed.

PI 563789 donor id: LR 2755-1. origin: China. Breeding Material.
Seed.

PI 563790 donor id: LR 2755-2. origin: China. Breeding Material.
Seed.

PI 563791 donor id: LR 2801. origin: China. Breeding Material.
Seed.

PI 563792 donor id: LR 2804. origin: China. Breeding Material.
Seed.

PI 563793 donor id: LR 2808. origin: China. Breeding Material.
Seed.

PI 563794 donor id: LR 2809-1. origin: China. Breeding Material.
Seed.

PI 563795 donor id: LR 2809-2. origin: China. Breeding Material.
Seed.

PI 563796 donor id: LR 2811-1. origin: China. Breeding Material.
Seed.

PI 563797 donor id: LR 2812-1. origin: China. Breeding Material.
Seed.

PI 563798 donor id: LR 2812-2. origin: China. Breeding Material.
Seed.

PI 563799 donor id: LR 2818. origin: China. Breeding Material.
Seed.

PI 563800 donor id: LR 2820. origin: China. Breeding Material.
Seed.

PI 563801 donor id: LR 2821. origin: China. Breeding Material.
Seed.

PI 563802 donor id: LR 2822. origin: China. Breeding Material.
Seed.

PI 563803 donor id: LR 2823-1. origin: China. Breeding Material.
Seed.

PI 563804 donor id: LR 2823-2. origin: China. Breeding Material.
Seed.

PI 563568 to 563845-continued

PI 563805	donor id: LR 2836.	origin: China.	Breeding Material. Seed.
PI 563806	donor id: LR 2841.	origin: China.	Breeding Material. Seed.
PI 563807	donor id: LR 2844.	origin: China.	Breeding Material. Seed.
PI 563808	donor id: LR 2854.	origin: China.	Breeding Material. Seed.
PI 563809	donor id: LR 2855.	origin: China.	Breeding Material. Seed.
PI 563810	donor id: LR 2856.	origin: China.	Breeding Material. Seed.
PI 563811	donor id: LR 2861.	origin: China.	Breeding Material. Seed.
PI 563812	donor id: LR 2862.	origin: China.	Breeding Material. Seed.
PI 563813	donor id: LR 2866.	origin: China.	Breeding Material. Seed.
PI 563814	donor id: LR 2867.	origin: China.	Breeding Material. Seed.
PI 563815	donor id: LR 2904.	origin: China.	Breeding Material. Seed.
PI 563816	donor id: LR 2906.	origin: China.	Breeding Material. Seed.
PI 563817	donor id: LR 2907.	origin: China.	Breeding Material. Seed.
PI 563818	donor id: LR 2917-1.	origin: China.	Breeding Material. Seed.
PI 563819	donor id: LR 2917-2.	origin: China.	Breeding Material. Seed.
PI 563820	donor id: LR 2918.	origin: China.	Breeding Material. Seed.
PI 563821	donor id: LR 2919.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563822	donor id: LR 2920.	origin: China.	Breeding Material. Seed.
PI 563823	donor id: LR 2924.	origin: China.	Breeding Material. Seed.
PI 563824	donor id: LR 2925-1.	origin: China.	Breeding Material. Seed.
PI 563825	donor id: LR 2925-2.	origin: China.	Breeding Material. Seed.
PI 563826	donor id: LR 2929.	origin: China.	Breeding Material. Seed.
PI 563827	donor id: LR 2931-1.	origin: China.	Breeding Material. Seed.
PI 563828	donor id: LR 2931-2.	origin: China.	Breeding Material. Seed.
PI 563829	donor id: LR 2931-3.	origin: China.	Breeding Material. Seed.
PI 563830	donor id: LR 2932.	origin: China.	Breeding Material. Seed.
PI 563831	donor id: LR 2933.	origin: China.	Breeding Material. Seed.
PI 563832	donor id: LR 2934-1.	origin: China.	Breeding Material. Seed.
PI 563833	donor id: LR 2934-2.	origin: China.	Breeding Material. Seed.
PI 563834	donor id: LR 2936.	origin: China.	Breeding Material. Seed.
PI 563835	donor id: LR 2938.	origin: China.	Breeding Material. Seed.
PI 563836	donor id: LR 2942.	origin: China.	Breeding Material. Seed.
PI 563837	donor id: LR 2945.	origin: China.	Breeding Material. Seed.
PI 563838	donor id: LR 2949.	origin: China.	Breeding Material. Seed.

PI 563568 to 563845-continued

PI 563839 **donor id:** LR 2957. **origin:** China. Breeding Material.
Seed.

PI 563840 **donor id:** LR 2958. **origin:** China. Breeding Material.
Seed.

PI 563841 **donor id:** LR 2966. **origin:** China. Breeding Material.
Seed.

PI 563842 **donor id:** LR 2970. **origin:** China. Breeding Material.
Seed.

PI 563843 **donor id:** LR 2972-1. **origin:** China. Breeding Material.
Seed.

PI 563844 **donor id:** LR 2972-2. **origin:** China. Breeding Material.
Seed.

PI 563845 **donor id:** LV 3285. **origin:** China. Breeding Material.
Seed.

PI 563846 to 563855. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Crop Germplasm Research Institute, Chinese Acad. of
Agricultural Sciences, Beijing, China. **remarks:** Received through
the China-United States Sorghum Germplasm Exchange Program.
Quarantine inspection ref. BE 4243. Received September 22, 1992.

PI 563846 **origin:** China. **cultivar:** HONG GONG JI BENG. Cultivar.
Seed.

PI 563847 **origin:** China. **cultivar:** JING HUI ER HAO. Cultivar.
Seed.

PI 563848 **origin:** China. **cultivar:** LAO GUA ZUO. Cultivar. Seed.

PI 563849 **origin:** China. **cultivar:** MAI CAO ZI. Cultivar. Seed.

PI 563850 **origin:** China. **cultivar:** PING LUO WA WA TOU. Cultivar.
Seed.

PI 563851 **origin:** China. **cultivar:** PING SHENG BAI. Cultivar.
Seed.

PI 563852 **origin:** China. **cultivar:** QIAN JIN BAI. Cultivar. Seed.

PI 563853 **origin:** China. **cultivar:** QI SI WU. Cultivar. Seed.

PI 563854 **origin:** China. **cultivar:** SAN SUI HONG KE AI GAO LIANG.
Cultivar. Seed.

PI 563846 to 563855-continued

PI 563855 **origin:** China. **cultivar:** XIAN MI GAO LIANG. **Cultivar.**
Seed.

PI 563856. *Elymus lanceolatus* (Scribner & J. G. Smith) Gould subsp.
lanceolatus POACEAE

Donated by: Jones, T.A., Agricultural Research Service -- USDA,
Forage and Range Research Lab, Utah State University, Logan, Utah
84322-6300, United States. Received September 28, 1992.

donor id: Acc:530. **origin:** United States. **collected:**
1975. **collector:** Kay H. Asay. **other id:** W6 11002.
group: W6. **locality:** Aberdeen, Bingham County. **Wild.**
Seed.

PI 563857 to 563861. *Elymus wawawaiensis* J. Carlson & Barkworth
POACEAE

Donated by: Jones, T.A., Agricultural Research Service -- USDA,
Forage and Range Research Lab, Utah State University, Logan, Utah
84322-6300, United States. Received September 28, 1992.

PI 563857 **donor id:** Acc:210. **origin:** United States. **collected:**
August 05, 1980. **collector:** Kay H. Asay. **other id:** W6
11003. **group:** W6. **locality:** Old highway 95, 5 miles
North of Lucile, Idaho County. **received as:** *Elymus*
lanceolatus ssp. *wawawaiensis*. **Wild.** **Seed.**

PI 563858 **donor id:** Acc:218. **origin:** United States. **collected:**
August 06, 1980. **collector:** Kay H. Asay. **other id:** W6
11004. **group:** W6. **locality:** Wawawai Road, 10 miles
Northwest of Colton, Whitman County. **received as:** *Elymus*
lanceolatus ssp. *wawawaiensis*. **Wild.** **Seed.**

PI 563859 **donor id:** Acc:221. **origin:** United States. **collected:**
August 06, 1980. **collector:** Kay H. Asay. **other id:** W6
11005. **group:** W6. **locality:** Milage marker 14, Wawawai
Road overlooking Snake River, Whitman County. **received**
as: *Elymus lanceolatus* ssp. *wawawaiensis*. **Wild.** **Seed.**

PI 563860 **donor id:** Acc:225. **origin:** United States. **collected:**
August 06, 1980. **collector:** Kay H. Asay. **other id:** W6
11006. **group:** W6. **locality:** Highway 127, 2 miles North
of Central Ferry, Whitman County. **received as:** *Elymus*
lanceolatus ssp. *wawawaiensis*. **Wild.** **Seed.**

PI 563857 to 563861-continued

PI 563861 **donor id:** Acc:227. **origin:** United States. **collected:** August 06, 1980. **collector:** Kay H. Asay. **other id:** W6 11007. **group:** W6. **locality:** Highway 127, Central Ferry, Garfield County. **received as:** *Elymus lanceolatus* ssp. *wawawaiensis*. Wild. Seed.

PI 563862 to 563866. *Leymus cinereus* (Scribner & Merr.) A. Love
POACEAE

Donated by: Jones, T.A., Agricultural Research Service -- USDA, Forage and Range Research Lab, Utah State University, Logan, Utah 84322-6300, United States. Received September 28, 1992.

PI 563862 **donor id:** Acc:330. **origin:** United States. **collected:** 1975. **collector:** Kay H. Asay. **other id:** W6 11008. **group:** W6. **locality:** Highway 400, Pershing County. Wild. Seed.

PI 563863 **donor id:** Acc:337. **origin:** United States. **collected:** 1975. **collector:** Kay H. Asay. **other id:** W6 11009. **group:** W6. **locality:** Highway 46, Gooding, Gooding County. Wild. Seed.

PI 563864 **donor id:** Acc:357. **origin:** United States. **collected:** 1975. **collector:** Kay H. Asay. **other id:** W6 11010. **group:** W6. **locality:** Highway 33, North Kemmerer, Lincoln County. Wild. Seed.

PI 563865 **donor id:** Acc:389. **origin:** United States. **collected:** August 18, 1980. **collector:** Kay H. Asay, Kevin B. Jensen. **other id:** W6 11011. **group:** W6. **locality:** Highway 30, 2 miles East of Montello, Elko County. Wild. Seed.

PI 563866 **donor id:** Acc:404. **origin:** United States. **collected:** 1975. **collector:** Kay H. Asay. **other id:** W6 11012. **group:** W6. Wild. Seed.

PI 563867 to 563875. *Pseudoroegneria spicata* (Pursh) A. Love POACEAE

Donated by: Jones, T.A., Agricultural Research Service -- USDA, Forage and Range Research Lab, Utah State University, Logan, Utah 84322-6300, United States. Received September 28, 1992.

PI 563867 **donor id:** Acc:216. **origin:** United States. **collected:** August 06, 1980. **collector:** Kay H. Asay. **other id:** W6 11013. **group:** W6. **locality:** Milage marker 4, county road 14, North Colton, Whitman County. **received as:** *Pseudoroegneria spicata* ssp. *inermis*. Wild. Seed.

PI 563867 to 563875-continued

- PI 563868 **donor id:** Acc:219. **origin:** United States. **collected:** August 06, 1980. **collector:** Kay H. Asay. **other id:** W6 11014. **group:** W6. **locality:** County park, Wawawai Road, Whitman County. **received as:** *Pseudoroegneria spicata* ssp. *inermis*. Wild. Seed.
- PI 563869 **donor id:** Acc:240. **origin:** United States. **collected:** August 07, 1980. **collector:** Kay H. Asay. **other id:** W6 11015. **group:** W6. **locality:** Highway 395, 5 miles South of Oregon/Washington state line, Umatilla County. **received as:** *Pseudoroegneria spicata* ssp. *inermis*. Wild. Seed.
- PI 563870 **donor id:** T-655. **origin:** United States. **other id:** W6 11016. **group:** W6. **locality:** Mouth of Green Canyon, North Logan, Cache County. **received as:** *Pseudoroegneria spicata* ssp. *inermis*. Wild. Seed.
- PI 563871 **donor id:** T-62. **origin:** United States. **collected:** July 16, 1986. **collector:** Thomas A. Jones, Kay H. Asay, Dale C. Nielson. **other id:** W6 11017. **group:** W6. **locality:** Steptoe Butte, Whitman County. **received as:** *Pseudoroegneria spicata* ssp. *spicata*. Wild. Seed.
- PI 563872 **donor id:** Acc:202. **origin:** United States. **collected:** August 21, 1980. **collector:** Kay H. Asay, Kevin B. Jensen. **other id:** W6 11018. **group:** W6. **locality:** 6 miles South of Decker. **received as:** *Pseudoroegneria spicata* ssp. *spicata*. Wild. Seed.
- PI 563873 **donor id:** Acc:211. **origin:** United States. **collected:** August 05, 1980. **collector:** Kay H. Asay. **other id:** W6 11019. **group:** W6. **locality:** 5 miles East of Lewiston, Nez Perce County. **received as:** *Pseudoroegneria spicata* ssp. *spicata*. Wild. Seed.
- PI 563874 **donor id:** Acc:220. **origin:** United States. **collected:** August 06, 1980. **collector:** Kay H. Asay. **other id:** W6 11020. **group:** W6. **locality:** County park, Wawawai Road, Whitman County. **received as:** *Pseudoroegneria spicata* ssp. *spicata*. Wild. Seed.
- PI 563875 **donor id:** T-429. **origin:** United States. **collected:** July 24, 1987. **collector:** Thomas A. Jones. **other id:** W6 11021. **group:** W6. **locality:** Milage marker 39, Highway 82, between Wallowa and Minam, Wallowa County. **received as:** *Pseudoroegneria spicata* ssp. *spicata*. Wild. Seed.

PI 563876. *Glycine tomentella* Hayata FABACEAE

Donated by: Grace, J., CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, ACT, Queensland 2601, Australia. Received October 09, 1992.

donor id: G 1468. **origin:** Australia. **other id:** IL 869.
source: University of Illinois, Urbana Illinois..
locality: Emu Park, 100m from sea on headland overlooking Keppal Bay. Perennial. Wild. Seed.

PI 563877 to 563879. *Glycine tomentella* Hayata FABACEAE

Donated by: Hymowitz, T., University of Illinois, Dept. of Agronomy, W-203 Turner Hall, 1102 S. Goodwin Ave., Urbana, Illinois 61801-4798, United States. Received October 09, 1992.

PI 563877 **origin:** Taiwan. **collected:** April 02, 1988. **collector:** T. Hymowitz. **other id:** IL 871. **source:** University of Illinois, Urbana Illinois.. **locality:** Sandy area, cattle grazing, 100m from shore, Maipitou. Perennial. Wild. Seed.

PI 563878 **origin:** Taiwan. **collected:** April 05, 1988. **collector:** T. Hymowitz. **other id:** IL 872. **source:** University of Illinois, Urbana Illinois.. **locality:** Approx. 4km N of Maipitou, on top of sandy ridge, Ta Kuang. Perennial. Wild. Seed.

PI 563879 **origin:** Taiwan. **collected:** April 05, 1988. **collector:** T. Hymowitz. **other id:** IL 874. **source:** University of Illinois, Urbana Illinois.. **locality:** Sand dune area, Haikou. Perennial. Wild. Seed.

PI 563880. *Glycine tabacina* (Labill.) Benth. FABACEAE

Donated by: Hymowitz, T., University of Illinois, Dept. of Agronomy, W-203 Turner Hall, 1102 S. Goodwin Ave., Urbana, Illinois 61801, United States. Received October 09, 1992.

origin: Taiwan. **collected:** April 09, 1988. **collector:** T. Hymowitz. **other id:** IL 884. **source:** University of Illinois, Urbana Illinois.. **locality:** On hillside by park, Ghebay Island, Pescadores Islands,. Perennial. Wild. Seed.

PI 563881. *Glycine tomentella* Hayata FABACEAE

Donated by: Lawn, R.J., CSIRO, Division of Plant Industry, GPO Box 1600, Canberra ACT, Queensland 2601, Australia. Received October 09, 1992.

donor id: G 2539. **origin:** Indonesia. **collector:** R.J. Lawn. **other id:** IL 888. **source:** University of Illinois, Urbana Illinois.. **locality:** Oe Bori Dam, Besi Pae, West Timor. **Perennial.** **Wild.** **Seed.**

PI 563882 to 563887. *Glycine cyrtoloba* Tind. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Division of Plant Industry, GPO Box 1600, Canberra ACT, Queensland 2601, Australia. Received October 09, 1992.

- PI 563882 **donor id:** G 2101. **origin:** Australia. **collected:** August 21, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 829/2-6. **other id:** IL 1029. **source:** University of Illinois, Urbana Illinois.. **locality:** Point Pure lookout, Brooyar Forest Drive, 6km from entrance. **latitude:** 26 deg. 08 min. S. **longitude:** 152 deg. 32 min. E. **elevation:** 250m. **Perennial.** **Cultivated.** **Seed.**
- PI 563883 **donor id:** G 2102. **origin:** Australia. **collected:** August 21, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 830/1-5. **other id:** IL 1030. **source:** University of Illinois, Urbana Illinois.. **locality:** Caves Walk, Brooyar, 8km from entrance. **latitude:** 26 deg. 09 min. S. **longitude:** 152 deg. 31 min. E. **elevation:** 80m. **Perennial.** **Cultivated.** **Seed.**
- PI 563884 **donor id:** G 2103. **origin:** Australia. **collected:** August 21, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 832/4-6. **other id:** IL 1031. **source:** University of Illinois, Urbana Illinois.. **locality:** Eumundi, 48.7km SE of Gympie. **latitude:** 26 deg. 29 min. S. **longitude:** 152 deg. 56 min. E. **elevation:** 250m. **Perennial.** **Cultivated.** **Seed.**
- PI 563885 **donor id:** G 2105. **origin:** Australia. **collected:** August 23, 1985. **collector:** Grace, Brown. **collector id:** 840/156. **other id:** IL 1033. **source:** University of Illinois, Urbana Illinois.. **locality:** Howard Creek, 10km W of Oxenford. **latitude:** 27 deg. 52 min. S. **longitude:** 153 deg. 15 min. E. **elevation:** 400m. **Perennial.** **Cultivated.** **Seed.**
- PI 563886 **donor id:** G 2106. **origin:** Australia. **collected:** August 23, 1985. **collector:** Grace, Brown. **collector id:** 841/9. **other id:** IL 1034. **source:** University of Illinois, Urbana Illinois.. **locality:** Mt. Tamborine, 15km W of Oxenford. **latitude:** 27 deg. 50 min. S. **longitude:** 153 deg. 13 min. E. **elevation:** 500m. **Perennial.** **Cultivated.** **Seed.**

PI 563882 to 563887-continued

PI 563887 **donor id:** G 2107. **origin:** Australia. **collected:** August 23, 1985. **collector:** Grace, Brown. **collector id:** 842/2-3. **other id:** IL 1035. **source:** University of Illinois, Urbana Illinois.. **locality:** Cedar Creek, NP, 7km SE of Tamborine. **latitude:** 27 deg. 50 min. S. **longitude:** 153 deg. 10 min. E. **elevation:** 500m. Perennial. Cultivated. Seed.

PI 563888 to 563891. *Glycine tabacina* (Labill.) Benth. FABACEAE
Perennial soybean

Donated by: Brown, A.H.D., CSIRO, Division of Plant Industry, GPO Box 1600, Canberra ACT, Queensland 2601, Australia. Received October 09, 1992.

PI 563888 **donor id:** G 2219. **origin:** Australia. **collected:** August 18, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 699/5. **other id:** IL 1116. **source:** University of Illinois, Urbana Illinois.. **locality:** Maranoa River, 0.5km from Mitchell. **latitude:** 26 deg. 29 min. S. **longitude:** 147 deg. 59 min. E. **elevation:** 340m. Perennial. Cultivated. Seed.

PI 563889 **donor id:** G 2263. **origin:** Australia. **collected:** August 16, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 683/2-5. **other id:** IL 1155. **source:** University of Illinois, Urbana Illinois.. **locality:** Barcoo River, 40.5km SE of Blackall. **latitude:** 24 deg. 35 min. S. **longitude:** 145 deg. 48 min. E. **elevation:** 350m. Perennial. Cultivated. Seed.

PI 563890 **donor id:** G 2278. **origin:** Australia. **collected:** August 20, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 817/1-3. **other id:** IL 1170. **source:** University of Illinois, Urbana Illinois.. **locality:** Tanduringie Creek, 3km N of Maidenwell. **latitude:** 26 deg. 50 min. S. **longitude:** 151 deg. 48 min. E. **elevation:** 500m. Perennial. Cultivated. Seed.

PI 563891 **donor id:** G 2287. **origin:** Australia. **collected:** August 21, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 827. **other id:** IL 1179. **source:** University of Illinois, Urbana Illinois.. **locality:** Widgee Creek, 29.1km E of Kilkivan,. **latitude:** 26 deg. 06 min. S. **longitude:** 152 deg. 32 min. E. **elevation:** 80m. Perennial. Cultivated. Seed.

PI 563892 to 563903. *Glycine tomentella* Hayata FABACEAE

Donated by: Brown, A.H.D., CSIRO, Division of Plant Industry, GPO Box 1600, Canberra ACT, Queensland 2601, Australia. Received October 09, 1992.

- PI 563892 **donor id:** G 2305. **origin:** Australia. **collected:** August 07, 1985. **collector:** Grace, Kenworthy. **collector id:** 619/1-2. **other id:** IL 1193. **source:** University of Illinois, Urbana Illinois.. **locality:** Brunswick Heads, growing on sand at back of beach, NSW. **latitude:** 28 deg. 32 min. S. **longitude:** 153 deg. 33 min. E. **elevation:** 2m. Perennial. Cultivated. Seed.
- PI 563893 **donor id:** G 2306. **origin:** Australia. **collected:** August 09, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 624. **other id:** IL 1194. **source:** University of Illinois, Urbana Illinois.. **locality:** Juandah Creek, Giligulgul. **latitude:** 26 deg. 21 min. S. **longitude:** 150 deg. 05 min. E. **elevation:** 400m. Perennial. Cultivated. Seed.
- PI 563894 **donor id:** G 2307. **origin:** Australia. **collected:** August 09, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 625/5-7. **other id:** IL 1195. **source:** University of Illinois, Urbana Illinois.. **locality:** Juandah Creek, Giligulgul. **latitude:** 26 deg. 21 min. S. **longitude:** 150 deg. 05 min. E. **elevation:** 400m. Perennial. Cultivated. Seed.
- PI 563895 **donor id:** G 2309. **origin:** Australia. **collected:** August 11, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 635/1-2. **other id:** IL 1196. **source:** University of Illinois, Urbana Illinois.. **locality:** Dawson River, 2nd crossing, 56.4km N of Injune. **latitude:** 25 deg. 23 min. S. **longitude:** 148 deg. 38 min. E. **elevation:** 450m. Perennial. Cultivated. Seed.
- PI 563896 **donor id:** G 2310. **origin:** Australia. **collected:** August 11, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 637/4. **other id:** IL 1197. **source:** University of Illinois, Urbana Illinois.. **locality:** Carnarvon Creek, 1km W of Wyseby. **latitude:** 24 deg. 58 min. S. **longitude:** 148 deg. 31 min. E. **elevation:** 270m. Perennial. Cultivated. Seed.
- PI 563897 **donor id:** G 2311. **origin:** Australia. **collected:** August 11, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 639/3. **other id:** IL 1198. **source:** University of Illinois, Urbana Illinois.. **locality:** Carnarvon Creek, 27km W of Wyseby. **latitude:** 25 deg. 01 min. S. **longitude:** 148 deg. 18 min. E. **elevation:** 300m. Perennial. Cultivated. Seed.

PI 563892 to 563903-continued

- PI 563898 **donor id:** G 2312. **origin:** Australia. **collected:** August 12, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 644/3. **other id:** IL 1199. **source:** University of Illinois, Urbana Illinois.. **locality:** Baffle Creek, 32km N of Injune. **latitude:** 25 deg. 35 min. S. **longitude:** 148 deg. 42 min. E. **elevation:** 450m. Perennial. Cultivated. Seed.
- PI 563899 **donor id:** G 2321. **origin:** Australia. **collected:** August 15, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 670. **other id:** IL 1208. **source:** University of Illinois, Urbana Illinois.. **locality:** Medway Creek, 95km W of Emerald. **latitude:** 23 deg. 39 min. S. **longitude:** 147 deg. 17 min. E. **elevation:** 350m. Perennial. Cultivated. Seed.
- PI 563900 **donor id:** G 2327. **origin:** Australia. **collected:** August 15, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 677/1. **other id:** IL 1214. **source:** University of Illinois, Urbana Illinois.. **locality:** Evora Creek, 33km S of Barcaldine. **latitude:** 23 deg. 47 min. S. **longitude:** 145 deg. 22 min. E. **elevation:** 300m. Perennial. Cultivated. Seed.
- PI 563901 **donor id:** G 2329. **origin:** Australia. **collected:** August 16, 1985. **collector:** Grace, Brown, Doyle, Kenworthy. **collector id:** 680/1. **other id:** IL 1216. **source:** University of Illinois, Urbana Illinois.. **locality:** Barcaldine Airport, 3km E of Barcaldine. **latitude:** 23 deg. 33 min. S. **longitude:** 145 deg. 19 min. E. **elevation:** 290m. Perennial. Cultivated. Seed.
- PI 563902 **donor id:** G 1156. **origin:** Australia. **collected:** March 1976. **collector:** A. Christie. **other id:** IL 1225. **source:** University of Illinois, Urbana Illinois.. **locality:** Charleville Nursery, Charleville. **latitude:** 26 deg. 24 min. S. **longitude:** 146 deg. 15 min. E. Perennial. Cultivated. Seed.
- PI 563903 **donor id:** G 1157. **origin:** Australia. **collector:** D. Ivory. **other id:** IL 1226. **source:** University of Illinois, Urbana Illinois.. **locality:** Morocco Station, Surat. **latitude:** 27 deg. 09 min. S. **longitude:** 149 deg. 04 min. E. Perennial. Cultivated. Seed.

PI 563904 to 564023. *Sorghum bicolor* (L.) Moench POACEAE *Sorghum*

Donated by: Schertz, K.F., Agricultural Research Service -- USDA, Soil & Crop Sciences, Texas A&M University, College Station, Texas 77843, United States. Received October 27, 1992.

PI 563904 to 564023-continued

- PI 563904 **donor id:** 9. **origin:** China. **cultivar:** HEI LONG 30B.
locality: Harbin. **remarks:** Translation: Heilong 30B.
Maintainer. Cultivated. Seed.
- PI 563905 **donor id:** 12. **origin:** China. **cultivar:** JIN LIANG 5.
locality: Fenyang. **remarks:** Translation: Jin sorghum No.
5. Improved variety. Restorer. Cultivated. Seed.
- PI 563906 **donor id:** 171. **origin:** China. **origin institute id:** IS
19428. Cultivated. Seed.
- PI 563907 **donor id:** 172. **origin:** China. **origin institute id:** IS
19429. **cultivar:** 2731-B. Cultivated. Seed.
- PI 563908 **donor id:** 173. **origin:** China. **origin institute id:** IS
19430. **cultivar:** HU NO. A. Cultivated. Seed.
- PI 563909 **donor id:** 174. **origin:** China. **origin institute id:** IS
19431. **cultivar:** KASLIANA-B. Cultivated. Seed.
- PI 563910 **donor id:** 175. **origin:** China. **origin institute id:** IS
19432. **cultivar:** KI-TZA.HYBRID. Cultivated. Seed.
- PI 563911 **donor id:** 176. **origin:** China. **origin institute id:** IS
19433. **cultivar:** HU NO. 4. **remarks:** Translation:
Protect No. 4. Improved variety. Cultivated. Seed.
- PI 563912 **donor id:** 178. **origin:** China. **origin institute id:** IS
19435. **cultivar:** TSON NO. 1 A LINES. **remarks:** Improved
variety. Male sterile line. Cultivated. Seed.
- PI 563913 **donor id:** 179. **origin:** China. **origin institute id:** IS
19436. **cultivar:** WV 105. Cultivated. Seed.
- PI 563914 **donor id:** 180. **origin:** China. **origin institute id:** IS
19464. **cultivar:** BULK. Cultivated. Seed.
- PI 563915 **donor id:** 182. **origin:** China. **origin institute id:** IS
20609. **cultivar:** YUAN-TSUNO. Cultivated. Seed.
- PI 563916 **donor id:** 184. **origin:** China. **origin institute id:** IS
20611. **cultivar:** PUIG-TUIG KUAN. Cultivated. Seed.
- PI 563917 **donor id:** 186. **origin:** China. **origin institute id:** IS
20613. **cultivar:** SWEET SORGHUM. **remarks:** Translation:
Sweet Sorghum. Cultivated. Seed.
- PI 563918 **donor id:** 189. **origin:** China. **origin institute id:** IS
20864. **cultivar:** DZUGERABELAJA. Cultivated. Seed.
- PI 563919 **donor id:** 190. **origin:** China. **origin institute id:** IS
29633. **cultivar:** DAGIANG JIE. Cultivated. Seed.

PI 563904 to 564023-continued

PI 563920 donor id: 193. origin: China. origin institute id: IS 29636. cultivar: JILIANG 5 VARIETY. Cultivated. Seed.

PI 563921 donor id: 194. origin: China. origin institute id: IS 29637. cultivar: GANNIAN GAOLIANG. Cultivated. Seed.

PI 563922 donor id: 195. origin: China. origin institute id: IS 29638. cultivar: HONG MILIANG (RED). Cultivated. Seed.

PI 563923 donor id: 196. origin: China. origin institute id: IS 29639. remarks: Translation: Kaoliang. Cultivated. Seed.

PI 563924 donor id: 197. origin: China. origin institute id: IS 29640. cultivar: XINLIANG 52 HAO VARIETY. Cultivated. Seed.

PI 563925 donor id: 198. origin: China. origin institute id: IS 29641. cultivar: XINLIANG 7 HAO. Cultivated. Seed.

PI 563926 donor id: 200. origin: China. origin institute id: IS 29643. cultivar: DA LUO QUI. Cultivated. Seed.

PI 563927 donor id: 201. origin: China. origin institute id: IS 29644. cultivar: CHANG Q1 GAOLIANG. Cultivated. Seed.

PI 563928 donor id: 202. origin: China. origin institute id: IS 29645. cultivar: XIAO HONGKE. Cultivated. Seed.

PI 563929 donor id: 203. origin: China. origin institute id: IS 29646. cultivar: LAO HONG SHUSHU. Cultivated. Seed.

PI 563930 donor id: 204. origin: China. origin institute id: IS 29647. cultivar: XIANG YUE 191. Cultivated. Seed.

PI 563931 donor id: 205. origin: China. origin institute id: IS 29648. cultivar: NIU YAN HONG. Cultivated. Seed.

PI 563932 donor id: 206. origin: China. origin institute id: IS 29649. cultivar: PIETEN LOOSE PANICLE. Cultivated. Seed.

PI 563933 donor id: 207. origin: China. origin institute id: IS 29650. cultivar: J-1 2731 B. Cultivated. Seed.

PI 563934 donor id: 208. origin: China. origin institute id: IS 29651. cultivar: DA BAI GU. Cultivated. Seed.

PI 563935 donor id: 209. origin: China. origin institute id: IS 29652. cultivar: VARIETY HU 22. Cultivated. Seed.

PI 563904 to 564023-continued

PI 563936 donor id: 210. origin: China. origin institute id: IS 29653. cultivar: COUNTY 5 HAO. Cultivated. Seed.

PI 563937 donor id: 211. origin: China. origin institute id: IS 29654. cultivar: HONG LIUZI (RED). Cultivated. Seed.

PI 563938 donor id: 212. origin: China. origin institute id: IS 29655. cultivar: JIN GUANG GAOLIANG 49. Cultivated. Seed.

PI 563939 donor id: 213. origin: China. origin institute id: IS 29656. cultivar: HUSI. Cultivated. Seed.

PI 563940 donor id: 214. origin: China. origin institute id: IS 29657. cultivar: HAI YANG HUANG. Cultivated. Seed.

PI 563941 donor id: 217. origin: China. origin institute id: IS 30305. cultivar: 2. Cultivated. Seed.

PI 563942 donor id: 218. origin: China. origin institute id: IS 30306. cultivar: 3. Cultivated. Seed.

PI 563943 donor id: 219. origin: China. origin institute id: IS 30307. cultivar: 4. Cultivated. Seed.

PI 563944 donor id: 222. origin: China. origin institute id: IS 30310. cultivar: 7. Cultivated. Seed.

PI 563945 donor id: 224. origin: China. origin institute id: IS 30312. cultivar: 9. Cultivated. Seed.

PI 563946 donor id: 225. origin: China. origin institute id: IS 30313. cultivar: 11. Cultivated. Seed.

PI 563947 donor id: 226. origin: China. origin institute id: IS 30314. cultivar: 12. Cultivated. Seed.

PI 563948 donor id: 227. origin: China. origin institute id: IS 30315. cultivar: 13. Cultivated. Seed.

PI 563949 donor id: 229. origin: China. origin institute id: IS 30317. cultivar: 15. Cultivated. Seed.

PI 563950 donor id: 231. origin: China. origin institute id: IS 30319. cultivar: LONG TOU JIAO ZI. locality: Xin Xian. remarks: Local variety. Cultivated. Seed.

PI 563951 donor id: 234. origin: China. origin institute id: IS 30322. cultivar: DA HONG PAO. locality: Chang Zhi. remarks: Local variety. Cultivated. Seed.

PI 563904 to 564023-continued

- PI 563952 **donor id:** 236. **origin:** China. **origin institute id:** IS 30324. **cultivar:** DA LIE BO NIU XIN. **locality:** Dai Xian. **remarks:** Local variety. Cultivated. Seed.
- PI 563953 **donor id:** 240. **origin:** China. **origin institute id:** IS 30328. **cultivar:** DA PITOU. **locality:** Ding Xiang. Cultivated. Seed.
- PI 563954 **donor id:** 244. **origin:** China. **origin institute id:** IS 30332. **cultivar:** XIAO GAOLIANG. **locality:** Ping Yao. **remarks:** Translation: Small sorghum. Local variety. Cultivated. Seed.
- PI 563955 **donor id:** 250. **origin:** China. **origin institute id:** IS 30338. **cultivar:** XIAN CHUCHUI JIAO. **locality:** Xin Xian. **remarks:** Local variety. Cultivated. Seed.
- PI 563956 **donor id:** 251. **origin:** China. **origin institute id:** IS 30339. **cultivar:** XIAN LUO CHUI. **locality:** Wu Tai. **remarks:** Local variety. Cultivated. Seed.
- PI 563957 **donor id:** 252. **origin:** China. **origin institute id:** IS 30340. **cultivar:** SHAN DONG JIAO ZI. **locality:** Xiang Yuan. **remarks:** Local variety. Cultivated. Seed.
- PI 563958 **donor id:** 254. **origin:** China. **origin institute id:** IS 30342. **cultivar:** MUGE WO. **locality:** Fen Yang. **remarks:** Local variety. Cultivated. Seed.
- PI 563959 **donor id:** 255. **origin:** China. **origin institute id:** IS 30343. **cultivar:** ZHONG GAN GAOLIANG. **locality:** Chang Zhi. **remarks:** Local variety. Cultivated. Seed.
- PI 563960 **donor id:** 256. **origin:** China. **origin institute id:** IS 30344. **cultivar:** LIU SHI RI GAOLIANG. **remarks:** Local variety. Cultivated. Seed.
- PI 563961 **donor id:** 257. **origin:** China. **origin institute id:** IS 30345. **cultivar:** CHANG SUI PIJIN GUANG. **locality:** Dong Xiang. Cultivated. Seed.
- PI 563962 **donor id:** 258. **origin:** China. **origin institute id:** IS 30346. **cultivar:** YI BAZHUA. **locality:** Jie Xiu. Cultivated. Seed.
- PI 563963 **donor id:** 259. **origin:** China. **origin institute id:** IS 30347. **cultivar:** YI BAZHUA. **locality:** Ping Yao. Cultivated. Seed.
- PI 563964 **donor id:** 263. **origin:** China. **origin institute id:** IS 30351. **cultivar:** ER NIU XIN. **locality:** Yuci. **remarks:** Local variety. Cultivated. Seed.

PI 563904 to 564023-continued

- PI 563965 donor id: 265. origin: China. origin institute id: IS 30353. cultivar: ER MAO KUI. locality: Fen Yang. Cultivated. Seed.
- PI 563966 donor id: 266. origin: China. origin institute id: IS 30355. cultivar: ER GUAN DONG. locality: Yuan Ping. Cultivated. Seed.
- PI 563967 donor id: 267. origin: China. origin institute id: IS 30356. cultivar: ER HUANG JIAO. locality: Fan Shi. remarks: Local variety. Cultivated. Seed.
- PI 563968 donor id: 270. origin: China. origin institute id: IS 30360. cultivar: ER LIE BO GAOLIANG. locality: Xing Xian. remarks: Local variety. Cultivated. Seed.
- PI 563969 donor id: 271. origin: China. origin institute id: IS 30361. cultivar: ER LAO GAOLIANG. locality: Gao Ping. remarks: Local variety. Cultivated. Seed.
- PI 563970 donor id: 275. origin: China. origin institute id: IS 30366. cultivar: JIU LIAN DENG. locality: Qi Xian. remarks: Local variety. Cultivated. Seed.
- PI 563971 donor id: 277. origin: China. origin institute id: IS 30368. cultivar: DA NIU XIN. locality: Xin Xian. remarks: Local variety. Cultivated. Seed.
- PI 563972 donor id: 278. origin: China. origin institute id: IS 30369. cultivar: DA NIU XIN. locality: Ding Xiang. remarks: Local variety. Cultivated. Seed.
- PI 563973 donor id: 282. origin: China. origin institute id: IS 30375. cultivar: DA HONG PAO. locality: Zhong Yang. Cultivated. Seed.
- PI 563974 donor id: 285. origin: China. origin institute id: IS 30378. cultivar: DA ZHALA. locality: Jie Xiu. remarks: Local variety. Cultivated. Seed.
- PI 563975 donor id: 286. origin: China. origin institute id: IS 30380. cultivar: DA LANG WEI. locality: Tai Gu. remarks: Local variety. Cultivated. Seed.
- PI 563976 donor id: 287. origin: China. origin institute id: IS 30381. cultivar: DA ZHONG JIAO. locality: Yuan Ping. remarks: Local variety. Cultivated. Seed.
- PI 563977 donor id: 292. origin: China. origin institute id: IS 30386. cultivar: XIAO LAO JIAO ZI. locality: Tun Liu. remarks: Local variety. Cultivated. Seed.

PI 563904 to 564023-continued

- PI 563978 donor id: 293. origin: China. origin institute id: IS 30387. cultivar: XIAO LAO JIAO ZI. locality: Tun Liu. remarks: Local variety. Cultivated. Seed.
- PI 563979 donor id: 295. origin: China. origin institute id: IS 30389. cultivar: GUANG DONG HONG. locality: Fen Yang. remarks: Local variety. Cultivated. Seed.
- PI 563980 donor id: 297. origin: China. origin institute id: IS 30391. cultivar: NIU WEI BA. locality: Jing Le. remarks: Local variety. Cultivated. Seed.
- PI 563981 donor id: 298. origin: China. origin institute id: IS 30393. cultivar: MU GE WO. locality: Jie Xiu. remarks: Local variety. Cultivated. Seed.
- PI 563982 donor id: 299. origin: China. origin institute id: IS 30394. cultivar: QI SI FENG. locality: Yuan Ping. remarks: Local variety. Cultivated. Seed.
- PI 563983 donor id: 303. origin: China. origin institute id: IS 30398. cultivar: CHANG MAO HONG GAOLIANG. locality: Zuo Quan. remarks: Local variety. Cultivated. Seed.
- PI 563984 donor id: 304. origin: China. origin institute id: IS 30399. cultivar: FEN SHON 25. locality: Jingle. remarks: Cultivated. Seed.
- PI 563985 donor id: 305. origin: China. origin institute id: IS 30400. cultivar: FANG LAN. locality: Dai Xian. remarks: Cultivated. Seed.
- PI 563986 donor id: 309. origin: China. origin institute id: IS 30404. cultivar: SAN SUI GAOLIANG. locality: Ling Shi. remarks: Local variety. Cultivated. Seed.
- PI 563987 donor id: 310. origin: China. origin institute id: IS 30405. cultivar: GAOLIANG. locality: Ling Shi. remarks: Translation: Sorghum. Cultivated. Seed.
- PI 563988 donor id: 311. origin: China. origin institute id: IS 30406. cultivar: HUANG JIN CHARUAN GAOLIANG. locality: Ling Shi. remarks: Local variety. Cultivated. Seed.
- PI 563989 donor id: 313. origin: China. origin institute id: IS 30409. cultivar: HE DONG GAOLIANG. locality: Lishi. remarks: Local variety. Cultivated. Seed.
- PI 563990 donor id: 314. origin: China. origin institute id: IS 30410. cultivar: GAOLIANG. locality: Wen Shui. remarks: Translation: Sorghum. Cultivated. Seed.

PI 563904 to 564023-continued

- PI 563991 donor id: 316. origin: China. origin institute id: IS 30412. cultivar: FANG SUI GAOLIANG. locality: Fen Yang. Cultivated. Seed.
- PI 563992 donor id: 319. origin: China. origin institute id: IS 30418. cultivar: HONG JIAO ZI. locality: Yuan Ping. remarks: Local variety. Cultivated. Seed.
- PI 563993 donor id: 326. origin: China. origin institute id: IS 30427. cultivar: HUANG LUOSU. locality: Wu Tai. remarks: Local variety. Cultivated. Seed.
- PI 563994 donor id: 329. origin: China. origin institute id: IS 30430. cultivar: MU GE CHAO. locality: Tai Yuan. remarks: Local variety. Cultivated. Seed.
- PI 563995 donor id: 331. origin: China. origin institute id: IS 30433. cultivar: SAN ER SUI. locality: Yang Quan. remarks: Local variety. Cultivated. Seed.
- PI 563996 donor id: 334. origin: China. origin institute id: IS 30437. cultivar: ZHONG YIAN SAN. locality: Yuci. remarks: Local variety. Cultivated. Seed.
- PI 563997 donor id: 336. origin: China. origin institute id: IS 30440. cultivar: HONG JIAO ZI. locality: Ping Yao. remarks: Local variety. Cultivated. Seed.
- PI 563998 donor id: 339. origin: China. origin institute id: IS 30443. cultivar: HOUNG KE ER JIAO. locality: Qi Xian. remarks: Local variety. Cultivated. Seed.
- PI 563999 donor id: 340. origin: China. origin institute id: IS 30444. cultivar: GAOLIANG. locality: He Shun. remarks: Translation: Sorghum. Cultivated. Seed.
- PI 564000 donor id: 341. origin: China. origin institute id: IS 30446. cultivar: HONG MAO GAOLIANG. remarks: Translation: Red sorghum. Cultivated. Seed.
- PI 564001 donor id: 346. origin: China. origin institute id: IS 30451. cultivar: JIN TON GAOLIANG. locality: Ling Qiu. remarks: Local variety. Cultivated. Seed.
- PI 564002 donor id: 347. origin: China. origin institute id: IS 30452. cultivar: GE DA JIAO. locality: Shan Yin. remarks: Local variety. Cultivated. Seed.
- PI 564003 donor id: 348. origin: China. origin institute id: IS 30453. cultivar: DAPITON. locality: Xin Xian. remarks: Local variety. Cultivated. Seed.

PI 563904 to 564023-continued

- PI 564004 donor id: 349. origin: China. origin institute id: IS 30454. cultivar: HONG JIAO ZI. locality: Xin Xian. remarks: Local variety. Cultivated. Seed.
- PI 564005 donor id: 350. origin: China. origin institute id: IS 30456. cultivar: FANG SUI JIAO ZI. locality: Xin Xian. remarks: Local variety. Cultivated. Seed.
- PI 564006 donor id: 353. origin: China. origin institute id: IS 30459. cultivar: JIN GUANG. locality: Ding Xian. remarks: Local variety. Cultivated. Seed.
- PI 564007 donor id: 354. origin: China. origin institute id: IS 30460. cultivar: ER FANG LAN. locality: Dai Xian. remarks: Local variety. Cultivated. Seed.
- PI 564008 donor id: 355. origin: China. origin institute id: IS 30461. cultivar: HONG MAO JIN JIAOZI. locality: Dai Xian. remarks: Local variety. Cultivated. Seed.
- PI 564009 donor id: 357. origin: China. origin institute id: IS 30463. cultivar: HEIKE JIAO. locality: Wu Xiang. remarks: Local variety. Cultivated. Seed.
- PI 564010 donor id: 372. origin: China. cultivar: TIE HUI 6. locality: Tie Ling. remarks: Translation: Tie restorer 6. Cultivated. Seed.
- PI 564011 donor id: 373. origin: China. cultivar: BAO DI CHU. locality: Tai an. remarks: Translation: Out of poor field. Local variety. Cultivated. Seed.
- PI 564012 donor id: 374. origin: China. cultivar: JIN 5 / JIN 1. locality: Shenyang. remarks: Translation: Jin restorer 5 / Jin restorer 1. Cultivated. Seed.
- PI 564013 donor id: 375. origin: China. cultivar: 152. locality: Tie Ling. remarks: Translation: Tie restorer 152. Cultivated. Seed.
- PI 564014 donor id: 376. origin: China. cultivar: SHEN NONG 447. locality: Shenyang. remarks: Translation: Shen Nong restorer 447. Cultivated. Seed.
- PI 564015 donor id: 377. origin: China. cultivar: 160. locality: Tie Ling. remarks: Translation: Tie restorer 160. Cultivated. Seed.
- PI 564016 donor id: 378. origin: China. cultivar: 7932. locality: Shenyang. remarks: Translation: Liao restorer 7932. Cultivated. Seed.

PI 563904 to 564023-continued

- PI 564017 **donor id:** 379. **origin:** China. **cultivar:** 5-27.
locality: Shenyang. **remarks:** Translation: Shen restorer
5-27. Cultivated. Seed.
- PI 564018 **donor id:** 380. **origin:** China. **cultivar:** 654. **locality:**
Ying Kou. **remarks:** Translation: Ying restorer 654.
Cultivated. Seed.
- PI 564019 **donor id:** 381. **origin:** China. **cultivar:** AI 4.
locality: Shenyang. **remarks:** Translation: Shorter 4.
Restorer. Cultivated. Seed.
- PI 564020 **donor id:** 382. **origin:** China. **cultivar:** 0-30.
locality: Shenyang. **remarks:** Translation: Shen restorer
0-30. Cultivated. Seed.
- PI 564021 **donor id:** 384. **origin:** China. **cultivar:** JIN 5/HUI 7.
locality: Shenyang. **remarks:** Translation: Jin restorer
5/restorer 7. Cultivated. Seed.
- PI 564022 **donor id:** 385. **origin:** China. **cultivar:** HUAI 4.
locality: Shenyang. **remarks:** Translation: Liao restorer
4. Cultivated. Seed.
- PI 564023 **donor id:** 386. **origin:** China. **cultivar:** 4003.
locality: Shenyang. **remarks:** Translation: Shen restorer
4003. Cultivated. Seed.

PI 564024 to 564046. *Solanum fendleri* A. Gray SOLANACEAE

Donated by: Bamberg, J., USDA-ARS, Inter-Regional Potato Intro.
Sta., Peninsula Exp. Sta., Sturgeon Bay, Wisconsin 54235, United
States. Received October 22, 1992.

- * PI 564024 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 01. **origin:** United States. **collected:**
August 06, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 01. **locality:** By rocks, at base
of Ponderosa, rich pine needle mulch. Just off road on
both sides, past emergency station turnoff. About 0.6
miles past mile marker 24. Coronado National Forest, Pima
County. **latitude:** 32 deg. 25 min.. **longitude:** 110 deg.
44 min.. **elevation:** 2400m. **remarks:** Plants 2-4 weeks
old, some flowering but most less than 10 cm. Wild.
Plant.

- * PI 564025 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 03. **origin:** United States. **collected:**
August 07, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 03. **locality:** Rich leaf mulch
in stream bottoms, about 0.2 miles from visitor center.
About 1 mile SW of Sierra Vista Estates in Ramsey Canyon
(private property), Cochise County. **latitude:** 31 deg. 26
min.. **longitude:** 110 deg. 19 min.. **elevation:** 1900m.
remarks: Plants few, very small. Wild. Plant.
- * PI 564026 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 04. **origin:** United States. **collected:**
August 08, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 04. **locality:** In pine mulch
under ponderosa pines. On roadside near Pinery
Campground, on road from NW park entrance to Barefoot
Park. Coronado National Forest, Cochise County.
latitude: 31 deg. 56 min.. **longitude:** 109 deg. 16 min..
elevation: 2120m. **remarks:** Plants very small, up to 3
cm. No tubers present. Wild. Plant.
- * PI 564027 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 05. **origin:** United States. **collected:**
August 08, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 05. **locality:** At base of one
ponderosa pine, in damp pine needle mulch. About 15 miles
from NW park entrance in Barefoot Park, about 30m SW of
Boyscout Camp Victoria buildings. Coronado National
Forest, Cochise County. **latitude:** 31 deg. 54 min..
longitude: 109 deg. 16 min.. **elevation:** 2480m. **remarks:**
Rare. One plant growing directly from cattle manure.
Seedlings small, 3-5cm tall. Wild. Plant.
- * PI 564028 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 06. **origin:** United States. **collected:**
August 08, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 06. **locality:** Very damp organic
soil. Within circle drive loop of campground, especially
just to S, at base of mountain. Rustler Park, about 15.5
miles from NW entrance of Coronado National Forest,
Cochise County. **latitude:** 31 deg. 53 min.. **longitude:**
109 deg. 16 min.. **elevation:** 2580m. **remarks:** Very large
population, especially abundant near rotting logs. Most
less than 5cm tall, only a few flowering. Wild. Plant.

- * PI 564029 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 07. **origin:** United States. **collected:**
August 09, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 07. **locality:** Sandy soil under
fallen pines, along bank of wash, about 150m up from
second metal trail marker. On Rt. 70 from Las Cruces to
Alamagordo, near town of Organ in Organ Mts. Trail at S
end of Aguirre Campground. Dona Anna County. **latitude:**
32 deg. 22 min.. **longitude:** 106 deg. 33 min..
elevation: 1850m. **remarks:** Plants small, up to 5cm.
Rare. Wild. Plant.

- * PI 564030 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 08. **origin:** United States. **collected:**
August 09, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 08. **locality:** On rocky unmowed
pile near children's play area. East edge of town, across
street from school. Cloudcroft, Otero County. **latitude:**
32 deg. 57 min.. **longitude:** 105 deg. 43 min..
elevation: 2620m. **remarks:** Plants small, growing among
grasses, clovers, composites. A few plants flowering, a
few with tubers. Appear to be clumps of seedlings,
perhaps from one berry. Wild. Plant.

- * PI 564031 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 09. **origin:** United States. **collected:**
August 09, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 09. **locality:** Gravel soil, in
grassy area beside propane gas company lot, on S side of
main business district. Cloudcroft, Otero County.
latitude: 32 deg. 57 min.. **longitude:** 105 deg. 43 min..
elevation: 2620m. **remarks:** Plants large, 10-40cm, some
flowering with immature berries. Wild. Plant.

- * PI 564032 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 10. **origin:** United States. **collected:**
August 09, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 10. **locality:** In gravel from
roadside. By curve in road encompassing a grassy glade,
Apache Canyon Road on way to Sleepy Grass Campground.
About 1/4 mile from Cloudcroft, Lincoln National Forest,
Otero County. **latitude:** 32 deg. 56 min.. **longitude:** 105
deg. 43 min.. **elevation:** 2650m. **remarks:** Plants 3-15cm.
Some flowering, some from tubers, some from seeds. Wild.
Plant.

- * PI 564033 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 11. **origin:** United States. **collected:**
August 09, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 11. **locality:** In rich pine
needle mulch, at base of one large pine, Apach Canyon
Road, Sleepy Grass Campground. Lincoln National Forest
near Cloudcroft, Otero County. **latitude:** 32 deg. 56
min.. **longitude:** 105 deg. 43 min.. **elevation:** 2680m.
remarks: Thick clumps of small seedlings and tuberlings.
Wild. Plant.
- * PI 564034 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 12. **origin:** United States. **collected:**
August 09, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 12. **locality:** Rich soil, only
at base of trees. Gravel road to Sixteen Springs Canyon
to cemetery (about 6.2 miles). 8 miles N of Cloudcroft on
Hwy 82. Cloudcroft vicinity, Otero County. **latitude:** 32
deg. 59 min.. **longitude:** 105 deg. 34 min.. **elevation:**
2350m. **remarks:** Plants 2-5 cm, mostly tuberlings. Wild.
Plant.
- * PI 564035 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 13. **origin:** United States. **collected:**
August 10, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 13. **locality:** In rich pine
needle mulch around fallen logs. Near James Ridge lookout
tower, near campsite on N side of road. 8 miles N of
Cloudcroft on Hwy 82, road to Sixteen Springs Canyon.
Cloudcroft vicinity, Otero County. **latitude:** 32 deg. 57
min.. **longitude:** 105 deg. 35 min.. **elevation:** 25400m.
remarks: Plants small, some mostly from tubers. Wild.
Plant.
- * PI 564036 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 14. **origin:** United States. **collected:**
August 10, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 14. **locality:** In nearly pure
gravel shoulder on S side of road, about 1.1 miles below
parking pulloff at curve. 8 miles N of Cloudcroft on Hwy
82, gravel road to Sixteen Springs canyon. Cloudcroft
vicinity, Otero County. **latitude:** 32 deg. 57 min..
longitude: 105 deg. 37 min.. **elevation:** 2400m. **remarks:**
Plants 2-50cm with flowers, large tubers, one almost
mature fruit and large tubers. Wild. Seed.

- * PI 564037 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 15. **origin:** United States. **collected:**
August 10, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 15. **locality:** Almost pure
gravel shoulder on S side of road. About 3.2 miles N of
Cloudcroft on road to Mescalero. Cloudcroft vicinity,
Otero County. **latitude:** 32 deg. 59 min.. **longitude:** 105
deg. 42 min.. **elevation:** 2580m. **remarks:** Plants small,
about 5cm with no flowers. Closely associated with
grasses. From tubers. Altitude of 2850m given for Haw
1159 should be 2580m. Not found in more likely upland
habitats. Wild. Plant.
- * PI 564038 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 16. **origin:** United States. **collected:**
August 10, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 16. **locality:** On S side of road
in meadow, about 100m before jeep trail. Circle lake
(about 4.3 miles from dam), taking turnoff to Crow Lode
Mine. At about 19 miles N of Ruidoso take road W to
Bonito Lake. Ruidoso vicinity, Lincoln County. **latitude:**
33 deg. 28 min.. **longitude:** 105 deg. 48 min..
elevation: 2420m. **remarks:** Under pines closely
associated with grasses. Seedlings and tuberlings up to
5cm. Wild. Plant.
- * PI 564039 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 18. **origin:** United States. **collected:**
August 11, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 18. **locality:** In rocky but
otherwise rich soil. About 1.6 miles E of Mogollon, along
road in gravel shoulder, especially in areas disturbed by
mud slides on upper side of road. Catron County.
latitude: 33 deg. 23 min.. **longitude:** 108 deg. 46 min..
elevation: 2100m. **remarks:** Plants up to 50 cm,
flowering, with some mature berries. Seedlings and
tuberlings. Wild. Seed.
- * PI 564040 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 19. **origin:** United States. **collected:**
August 11, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 19. **locality:** In nearly pure
gravel. Close to no camping sign. On S side of road,
growing on shoulder. About 0.5 miles E of dead end road
to Willow Creek Ranch. About 15.5 miles E of Mogollon,
Willow Creek Ranch. Mogollon vicinity, Catron County.
latitude: 33 deg. 24 min.. **longitude:** 108 deg. 35 min..
elevation: 2350m. **remarks:** Plants to 20cm, flowering,
with one immature berry. Wild. Plant.

- * PI 564041 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 20. **origin:** United States. **collected:**
 August 12, 1992. **collector:** A. Salas, J. Bamberg, S.
 Vega. **collector id:** SBV 20. **locality:** Along roadside
 about 0.5 miles up primitive trail. Cox Canyon road about
 15 miles to John Kerr lookout tower peak (tower has been
 removed). 12 miles NE of Reserve on Hwy 12 to town of
 Apache Creek. Reserve vicinity. Catron County. **latitude:**
 33 deg. 48 min.. **longitude:** 108 deg. 28 min..
elevation: 2500m. **remarks:** Nestled in between large
 rocks along upper side of trail. Rare, but plants only up
 to 3cm. Wild. Plant.

- * PI 564042 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 23. **origin:** United States. **collected:**
 August 12, 1992. **collector:** A. Salas, J. Bamberg, S.
 Vega. **collector id:** SBV 23. **locality:** On W side of road
 under very large pines, especially in rotting fallen
 logs. Hwy 666, 1.2 miles NE of Greenlee Co. line, at
 pulloff. Alpine vicinity, Apache County. **latitude:** 33
 deg. 47 min.. **longitude:** 109 deg. 09 min.. **elevation:**
 2400m. **remarks:** Mostly small tuberlings, but one plant
 flowering, and some seedlings. Wild. Plant.

- * PI 564043 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 25. **origin:** United States. **collected:**
 August 12, 1992. **collector:** A. Salas, J. Bamberg, S.
 Vega. **collector id:** SBV 25. **locality:** Sandy dry soil,
 on lower side of road under trees. 2 miles S on Rt. 666,
 1 mile E on road 275. Near Nelson Reservoir. Apache
 County. **latitude:** 34 deg. 02 min.. **longitude:** 109 deg.
 09 min.. **elevation:** 2350m. **remarks:** Only a few plants
 found under same tree as *jamesii* (SBV 24). Wild. Plant.

- * PI 564044 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 30. **origin:** United States. **collected:**
 August 13, 1992. **collector:** A. Salas, J. Bamberg, S.
 Vega. **collector id:** SBV 30. **locality:** Under pines.
 Between 31 and 32 mile markers, S of Quemado on Hwy 32.
 Quemado vicinity, Catron County. **latitude:** 34 deg. 13
 min.. **longitude:** 108 deg. 33 min.. **elevation:** 2120m.
remarks: On small, 5cm tall tuberling, under same pine as
jamesii (SBV 29). Wild. Plant.

PI 564024 to 564046-continued

- * PI 564045 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 32. **origin:** United States. **collected:**
August 04, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 32. **locality:** In rich soil
closely associated with grasses. Plants found around
stones in picnic/camping area at summit. Hwy 57, about 9
miles N of Ruidoso leading to Montjeau lookout. Ruidoso
vicinity, Lincoln County. **latitude:** 33 deg. 26 min..
longitude: 105 deg. 43 min.. **elevation:** 3200m. **remarks:**
Plants small, only a few flowering. Most plants
apparently tuberlings. Numbered out of sequence. Wild.
Plant.
- * PI 564046 *Solanum fendleri* A. Gray subsp. *fendleri* SOLANACEAE
donor id: SBV 33. **origin:** United States. **collected:**
August 08, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 33. **locality:** Under trees and
in creek bed. About 2 miles down trail, or about 300m
into ponderosa pine bottoms. On natural bridge/Picket
Park trail. Chiricahua National Monument, Cochise County.
latitude: 32 deg. 01 min.. **longitude:** 109 deg. 21 min..
elevation: 1780m. **remarks:** Observed and photographed
only. Tubers collected and sent later by Dr. Adam
Richman. Numbered out of sequence. Wild. Tuber.

PI 564047 to 564057. *Solanum jamesii* Torrey SOLANACEAE

Donated by: Bamberg, J., Inter-Regional Potato Intro. Sta.,
USDA ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin
54235, United States. Received October 22, 1992.

- PI 564047 **donor id:** SBV 02. **origin:** United States. **collected:**
August 07, 1992. **collector:** A. Salas, J. Bamberg, S.
Vega. **collector id:** SBV 02. **locality:** Organic mulch,
around rocks. About 1/8 mile up path, follow barbed wire
fence W to where it intersects with wash. Gravel road to
Wakefiel mine, about 3.8 miles past summit. Huachuca
Mts., NW of Coronado National Memorial, Cochise County.
latitude: 31 deg. 23 min.. **longitude:** 110 deg. 21 min..
elevation: 1850m. **remarks:** Plant very abundant, 3-20cm.
Only one flowering. Wild. Plant.

- PI 564048 **donor id:** SBV 17. **origin:** United States. **collected:** August 11, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 17. **locality:** Very sandy, dry habit, only under junipers. About 50 ft. S of 17 mile marker on E side of road. Gila National Forest on Rt. 90 from Lordsburg to Silver City. Silver City Vicinity, Grant County. **latitude:** 32 deg. 29 min.. **longitude:** 108 deg. 31 min.. **elevation:** 1900m. **remarks:** Plant small, 2-5cm, just coming up from tubers under junipers. Rare. Wild. Plant.
- PI 564049 **donor id:** SBV 21. **origin:** United States. **collected:** August 12, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 21. **locality:** Area dry and sandy, found only under junipers in moist needle mulch. At mile marker 33 (from Hwy 180), about 6 miles NE of Agaron Hwy 12. Reserve vicinity, Catron County. **latitude:** 33 deg. 55 min.. **longitude:** 108 deg. 28 min.. **elevation:** 2150m. **remarks:** Probably occur widely throughout this habitat between site and Aragon. Plants 3-20cm. Most appear to be tuberlings. Wild. Plant.
- PI 564050 **donor id:** SBV 22. **origin:** United States. **collected:** August 12, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 22. **locality:** Sandy soil, in needle mulch under juniper tree. NE corner of intersection of Rts. 180 and 12. 7 miles W of Reserve. Reserve vicinity, Catron County. **latitude:** 33 deg. 41 min.. **longitude:** 108 deg. 51 min.. **elevation:** 1950m. **remarks:** One plant, small. Wild. Plant.
- PI 564051 **donor id:** SBV 24. **origin:** United States. **collected:** August 12, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 24. **locality:** Sandy dry soil, in needles under pines. On lower side of road under trees, 2 miles S on Rt. 666, 1 mile E on road 275. Near Nelson Reservoir, Apache County. **latitude:** 34 deg. 02 min.. **longitude:** 109 deg. 09 min.. **elevation:** 2350m. **remarks:** Plants just coming up. Plant height up to 5cm tall. One fendleri (SBV 25) found under the same tree. Wild. Plant.

PI 564047 to 564057-continued

- PI 564052 **donor id:** SBV 26. **origin:** United States. **collected:** August 12, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 26. **locality:** Very black volcanic soil, only on creek bank on N side of road. 2 miles S of reservoir, road 275 to its end (mile marker 0), or 5 miles from Rt. 666. Nelson Reservoir vicinity, Apache County. **latitude:** 33 deg. 59 min.. **longitude:** 109 deg. 07 min.. **elevation:** 2500m. **remarks:** Plants small, up to 5cm tall, growing in bare creek bank (no other plants present). Apparently mostly tuberlings. Tubers abundant. No fendleri found here. Wild. Plant.
- PI 564053 **donor id:** SBV 27. **origin:** United States. **collected:** August 12, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 27. **locality:** Sandy needle mulch assoc. with Chenopodium & composites. On right side of road. under junipers. 0.2 miles S of triangle intersection 180 & 160, just S of Eagar. Picnic Creek Road E about 1 mile to base of high ridge. Eagar vic., Apache Co. **latitude:** 34 deg. 06 min.. **longitude:** 109 deg. 14 min.. **elevation:** 2240m. **remarks:** Plants small to 10cm, abundant. Apparently mostly tuberlings. Wild. Plant.
- PI 564054 **donor id:** SBV 28. **origin:** United States. **collected:** August 13, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 28. **locality:** Under pines. Quemado Lake Campground (6 miles E from Hwy 32 on road 103). Quemado vicinity, Catron County. **latitude:** 34 deg. 08 min.. **longitude:** 108 deg. 28 min.. **elevation:** 2320m. **remarks:** Tuberlings small, up to 5cm. Fairly abundant. Wild. Plant.
- PI 564055 **donor id:** SBV 29. **origin:** United States. **collected:** August 13, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 29. **locality:** Under pines. Between 31 and 32 mile markers S of Quemado on Hwy 32. Quemado vicinity, Catron County. **latitude:** 34 deg. 13 min.. **longitude:** 108 deg. 33 min.. **elevation:** 2120m. **remarks:** Plants tall, up to 20cm. Apparently mostly tuberlings. One fendleri also found under same tree. Wild. Plant.
- PI 564056 **donor id:** SBV 31. **origin:** United States. **collected:** August 13, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 31. **locality:** Very sandy, dry soil. On N side of road under pines. On Hwy 60 at roadside picnic area 12.2 miles W of Magdalena. Magdalena vicinity, Socorro County. **elevation:** 2140m. **remarks:** Tuberlings small, up to 5 cm, just coming up. Associated with Chenopodium, composites and grasses. Wild. Plant.

PI 564047 to 564057-continued

PI 564057 **donor id:** SBV 34. **origin:** United States. **collected:** August 08, 1992. **collector:** A. Salas, J. Bamberg, S. Vega. **collector id:** SBV 34. **locality:** Under small Cupressus. About 85 paces N of Faraway Ranch parking area between footpath and wash. Chiricahua National Monument, Cochise County. **latitude:** 32 deg. 00 min.. **longitude:** 109 deg. 22 min.. **elevation:** 1780m. **remarks:** Plants small very abundant. Photographs only. Tubers collected and sent later by Dr. Adam Richman. Numbered out of sequence. Wild. Plant.

PI 564058. Beta hybrid CHENOPODIACEAE

Donated by: Yu, M.H., USDA-ARS, 1636 East Alisal St., Salinas, California 93905, United States. **remarks:** McFarlane collection. Received August 20, 1985.

donor id: WB 109. **origin:** UNKNOWN. **developed:** D.L. Doney. **origin institute:** USDA-ARS, Logan, Utah United States. **source history:** Hybrid produced by Dr. Devon Doney. **pedigree:** B. procumbens x B. webbiana. **other id:** Ames 4517. **source:** NC-7. **group:** Ames. Seed.

PI 564059 to 564061. Beta patellaris Moq. CHENOPODIACEAE

Donated by: Yu, M.H., USDA-ARS, 1636 East Alisal St., Salinas, California 93905, United States. **remarks:** McFarlane collection. Received August 20, 1985.

PI 564059 **donor id:** WB 14. **origin:** UNCERTAIN. **source history:** Seed from Japan Sugarbeet Improvement Foundation in 1968. Identified as B. patellaris WB 14 from Wageningen, 1964 annual. **other id:** WB 91. **source:** McFarlane collection. **other id:** Ames 4514. **source:** NC-7. **group:** Ames. Seed.

PI 564060 **donor id:** WB 49. **origin:** UNCERTAIN. **source history:** Seed from Japan Sugarbeet Improvement Foundation in 1968. Identified as B. patellaris WB 49 from Wageningen, 1967 annual.. **other id:** WB 92. **source:** McFarlane collection. **other id:** Ames 4521. **source:** NC-7. **group:** Ames. Seed.

PI 564061 **donor id:** 5920. **origin:** UNKNOWN. **source history:** Seed lot labelled 5920, 1954. Source unknown.. **other id:** WB 77. **source:** McFarlane collection. **other id:** Ames 4522. **source:** NC-7. **group:** Ames. Seed.

PI 564062 to 564063. *Beta procumbens* C. Smith CHENOPODIACEAE

Donated by: Yu, M.H., USDA-ARS, 1636 East Alisal St., Salinas, California 93905, United States. **remarks:** McFarlane collection. Received August 20, 1985.

PI 564062 **donor id:** WB 100. **origin:** UNKNOWN. **source history:** Seed obtained from Dr. Helen Savitsky. Source unknown.. **other id:** Ames 4526. **source:** NC-7. **group:** Ames. **remarks:** 2n = 18. Seed.

PI 564063 **donor id:** WB 29b. **origin:** UNCERTAIN. **source history:** Seed from Japan Sugarbeet Improvement Foundation in 1968. Identified as *B. procumbens* WB 29b from Max Planck Institute in Germany, 1966. annual. **other id:** WB 110. **source:** McFarlane collection. **other id:** Ames 4528. **source:** NC-7. **group:** Ames. Seed.

PI 564064. *Beta webbiana* Moq. CHENOPODIACEAE

Donated by: Yu, M.H., USDA-ARS, 1636 East Alisal St., Salinas, California 93905, United States. **remarks:** McFarlane collection. Received August 20, 1985.

donor id: 8916. **origin:** UNKNOWN. **source history:** WB 1130 = 8916 (1968), 8916 = Inc. 5916 Obtained from Beltsville.. **other id:** WB 130. **source:** McFarlane collection. **other id:** Ames 4537. **source:** NC-7. **group:** Ames. Seed.

PI 564065 to 564066. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Legg, P.D., Kentucky Agr. Exp. Sta., University of Kentucky, Princeton, Kentucky 42445, United States. **remarks:** LN KY 160 and LN KY 171 Tobacco Germplasm. Received November 05, 1992.

PI 564065 **origin:** United States. **developed:** P.D. Legg. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, West Kentucky Research & Education Ctr., Princeton, Kentucky 42445 United States. **cultivar:** LN KY 171. **pedigree:** LA Burley 21/KY 171 followed by 5 backcrosses to KY 171 and 2 selfed generations. **other id:** GP-46. **group:** CSR-TOBACCO. **restricted:** CSR. **remarks:** Agronomically comparable to KY 171. Based on 3 years of testing, has 17 leaves per plant, height of 72cm, midstalk leaf length 83cm, width 36cm, and a cured-leaf yield of 247g per plant. Nicotine level in percent of dry weight 0.42 compared to 4.70 for KY 171. Spring Annual. Breeding Material. Seed.

PI 564065 to 564066-continued

PI 564066 **origin:** United States. **developed:** P.D. Legg. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, West Kentucky Research & Education Ctr., Princeton, Kentucky 42445 United States. **cultivar:** LN KY 160. **pedigree:** LA Burley 21/KY 160 followed by 5 backcrosses to KY 160 and 2 selfed generations. **other id:** GP-47. **group:** CSR-TOBACCO. **restricted:** CSR. **remarks:** Agronomically comparable to KY 160. Based on 3 years of testing, has 15 leaves per plant, height of 77cm, midstalk leaf length 76cm, width 37cm, and a cured-leaf yield of 228g per plant. Nicotine level in percent of dry weight 0.41 compared to 4.30 for KY 160. Spring Annual. Breeding Material. Seed.

PI 564067 to 564068. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Legg, P.D., Kentucky Agr. Exp. Sta., University of Kentucky, Princeton, Kentucky 42445, United States. **remarks:** SI KY 160 and SI KY 171 Tobacco Germplasm. Received November 05, 1992.

PI 564067 **origin:** United States. **developed:** P.D. Legg. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, West Kentucky Research & Education Ctr., Princeton, Kentucky 42445 United States. **cultivar:** SI KY 171. **pedigree:** Burley short-internode mutant/KY 171 followed by 5 backcrosses to KY 171 and 2 selfed generations. **other id:** GP-44. **group:** CSR-TOBACCO. **restricted:** CSR. **remarks:** 21 leaves per plant. Plant height 79cm. Cured-leaf yield 245g per plant. Leaves at midstalk with length of 70cm and width of 34cm. Nicotine levels in cured leaves averaged 4.43%. Distance between leaves on stalk averaged 3.8cm compared to 5cm for KY 171. Spring Annual. Breeding Material. Seed.

PI 564068 **origin:** United States. **developed:** P.D. Legg. **origin institute:** Kentucky Agr. Exp. Sta., University of Kentucky, West Kentucky Research & Education Ctr., Princeton, Kentucky 42445 United States. **cultivar:** SI KY 160. **pedigree:** Burley short-internode mutant/KY 160 followed by 5 backcrosses to KY 160 and 2 selfed generations. **other id:** GP-45. **group:** CSR-TOBACCO. **restricted:** CSR. **remarks:** 22 leaves per plant. Plant height 61cm. Cured-leaf yield 179g per plant. Leaves at midstalk with length of 63cm and width of 27cm. Nicotine levels in cured leaves averaged 4.10%. Distance between leaves on stalk averaged 2.8cm compared to 5.1cm for KY 160. Spring Annual. Breeding Material. Seed.

PI 564069. *Setaria* sp. POACEAE

Donated by: Dept. of Botany, University of Nairobi, Nairobi, Kenya.
Received September 1992.

origin: Kenya. **other id:** Q 22218. **locality:** Ngong
hills. **remarks:** Originally received as plants. Wild.
Seed.

PI 564070. *Setaria sphacelata* (Schum.) M. B. Moss POACEAE

Donated by: Dept. of Botany, University of Nairobi, Nairobi, Kenya.
Received September 1992.

origin: Kenya. **other id:** Q 21736. **locality:** Mara.
remarks: Originally received as plants. Wild. Seed.

PI 564071. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Rogers NK Seed Company, United States. Received
November 10, 1992.

origin: United States. **origin institute:** Rogers NK Seed
Company United States. **cultivar:** 434. **other id:** PVP
9200277. **source:** Pending. **group:** PVPO. **patent:** PVPO.
Cultivar. Seed.

PI 564072. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: FFR Cooperative, United States. Received November 10,
1992.

origin: United States. **origin institute:** FFR Cooperative
United States. **cultivar:** FFR 525W. **other id:** PVP
9200278. **source:** Pending. **group:** PVPO. **patent:** PVPO.
Cultivar. Seed.

PI 564073. X *Triticosecale* sp. POACEAE Triticale

Donated by: Agrecol Corporation, United States. Received November
10, 1992.

origin: United States. **origin institute:** Agrecol
Corporation United States. **cultivar:** ENDURO. **other id:**
PVP 9200279. **source:** Pending. **group:** PVPO. **patent:**
PVPO. Cultivar. Seed.

PI 564074. *Apium graveolens* L. APIACEAE Celery

Donated by: Petoseed Company, Inc., United States. Received November 10, 1992.

origin: United States. **origin institute:** Petoseed Company, Inc. United States. **cultivar:** PS 28588. **other id:** PVP 9300001. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564075. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Del Monte Corporation, United States. Received November 10, 1992.

origin: United States. **origin institute:** Del Monte Corporation United States. **cultivar:** DMC 04-01. **other id:** PVP 9300002. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564076. *Cucumis melo* L. CUCURBITACEAE Muskmelon

Donated by: Hollar Seeds, Inc., United States. Received November 10, 1992.

origin: United States. **origin institute:** Hollar Seeds, Incorporated United States. **cultivar:** SWEET DELIGHT. **other id:** PVP 9300003. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564077. *Pisum sativum* L. FABACEAE Garden pea

Donated by: Del Monte Corporation, United States. Received November 10, 1992.

origin: United States. **origin institute:** Del Monte Corporation United States. **cultivar:** DMC 50-02. **other id:** PVP 9300004. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564078. *Catharanthus roseus* (L.) G. Don APOCYNACEAE Vinca

Donated by: John Bodger & Sons Company, United States. Received November 10, 1992.

origin: United States. **origin institute:** John Bodger & Sons Company United States. **cultivar:** PT358. **other id:** PVP 9300005. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564079. *Catharanthus roseus* (L.) G. Don APOCYNACEAE Vinca

Donated by: John Bodger & Sons Company, United States. Received November 10, 1992.

origin: United States. **origin institute:** John Bodger & Sons Company United States. **cultivar:** PT379. **other id:** PVP 9300006. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564080. *Catharanthus roseus* (L.) G. Don APOCYNACEAE Vinca

Donated by: John Bodger & Sons Company, United States. Received November 10, 1992.

origin: United States. **origin institute:** John Bodger & Sons Company United States. **cultivar:** PT408. **other id:** PVP 9300007. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564081. *Catharanthus roseus* (L.) G. Don APOCYNACEAE Vinca

Donated by: John Bodger & Sons Company, United States. Received November 10, 1992.

origin: United States. **origin institute:** John Bodger & Sons Company United States. **cultivar:** PT441. **other id:** PVP 9300008. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564082. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Terral-Norris Seed Company, Inc., United States. Received November 10, 1992.

origin: United States. **origin institute:** Terral-Norris Seed Company, Inc. United States. **cultivar:** Terra Vig-5555. **other id:** PVP 9300010. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564083. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Terral-Norris Seed Company, Inc., United States. Received November 10, 1992.

origin: United States. **origin institute:** Terral-Norris Seed Company, Inc. United States. **cultivar:** TERRAL 877. **other id:** PVP 9300011. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564084. *Agrostis stolonifera* L. POACEAE Creeping bentgrass

Donated by: Barenbrug USA - Marketing Division, United States.
Received November 10, 1992.

origin: United States. **origin institute:** Barenbrug USA -
Marketing Division United States. **cultivar:** REGENT.
other id: PVP 9300012. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 564085. *Sorghum x drummondii* (Nees ex Steudel) Millsp. & Chase
POACEAE Sudangrass

Donated by: Walter K. Moss, United States. Received November 10,
1992.

origin: United States. **origin institute:** Walter K. Moss
United States. **cultivar:** WKM III. **other id:** PVP
9300013. **source:** Pending. **group:** PVPO. **patent:** PVPO.
received as: *Sorghum vulgare* var *sudanense*. Cultivar.
Seed.

PI 564086. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Royal Sluis, Koninklijke, Zaaizaadbedrijven Gebroeders
Sluis, BV, Netherlands. Received November 10, 1992.

origin: Netherlands. **origin institute:** Royal Sluis,
Koninklijke, Zaaizaadbedrijven Gebroeders Sluis, BV
Netherlands. **cultivar:** RS0144. **other id:** PVP 9300014.
source: Pending. **group:** PVPO. **patent:** PVPO. Cultivar.
Seed.

PI 564087. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: AgriPro Biosciences Inc., United States. Received
November 10, 1992.

origin: United States. **origin institute:** AgriPro
Biosciences Inc. United States. **cultivar:** KRONA. **other**
id: PVP 9300015. **source:** Pending. **group:** PVPO. **patent:**
PVPO. **remarks:** Hard red winter cultivar. Cultivar.
Seed.

PI 564088. *Stylosanthes hamata* (L.) Taubert FABACEAE Caribbean stylo

Donated by: Quesenberry, K.H., University of Florida, Dept. of
Agronomy, 2183 McCarty Hall, Gainesville, Florida 32611, United
States. Received November 05, 1992.

origin: United States. **developed:** J.B. Brolmann. **origin institute:** Agr. Res. and Ed. Ctr., Inst. of Food & Agr. Sci., University of Florida, Fort Pierce, Florida 33454 United States. **cultivar:** FP-7303. **pedigree:** Eight 2n=40 ecotypes indigenous to Florida. **other id:** GP-64. **source:** Crop Sci. 27(1)154 1987. **group:** CSR-OTHER LEGUMES. **remarks:** Plants semi-erect, up to 50cm in ht. Flowers almost year round, but blooms more profusely during short day seasons. Seeds short, curved beak in contrast to long beak of common ecotypes. Grows in soils with pH 5.5-9.5. Tolerates light frost & periodic flooding. Greatest forage prod. late fall, 5-10 times as common ecotypes. Regenerates each year from both seeds & plants. Ave crude protein content & in vitro organic matter digestibility, 21 & 64%, respectively. Well-accepted by beef cattle. Breeding Material. Seed.

PI 564089 to 564094. *Lycopersicon esculentum* Miller, nom. cons.
SOLANACEAE Tomato

Donated by: Lambeth, V.N., University of Missouri - Columbia, Dept. of Horticulture, 1-40 Agr. Bldg., Columbia, Missouri 65211, United States. Received November 05, 1992.

PI 564089 **origin:** United States. **cultivar:** MO. 399. **pedigree:** Tucker's Forcing/Crack-proof Pink. **other id:** Mo. IV-313-3. **other id:** Mo. II-358-2. **other id:** Mo. 379. **remarks:** Fruits pink, 5-6oz, smooth flattened globes with five or more locules and tough skin that reduces fruit bursting at harvest. Carries the Bay State Forcing resistance to common races of *Cladosporium fulvum* and low resistance to *Fusarium oxysporum* f. *lycopersici*. Perennial grown as annual. Breeding Material. Seed.

PI 564090 **origin:** United States. **cultivar:** MO. 417. **pedigree:** F9 selection of Mo. Line 211/Ohio WR3. **remarks:** Plants indeterminate for either greenhouse or field culture. Fruits pink, 6-7oz, smooth flattened globes with five or more locules and good internal structure. Fruit quality attributes: Brix 4.49%, pH 4.32, titratable acidity 0.3875% CAE (citric acid equivalent). Carries the Bay State Forcing resistance to common races of *Cladosporium fulvum* and field immunity to *Fusarium oxysporum* f. *lycopersici*. Perennial grown as annual. Breeding Material. Seed.

PI 564089 to 564094-continued

- PI 564091 **origin:** United States. **cultivar:** MO. 31-ST6. **pedigree:** F7 selection of Mammoth Wonder/Tomboy. **other id:** Mo. 30-y-53a. **remarks:** Plants indeterminate, foliage density moderate. Possesses field immunity to *Fusarium oxysporum* from Mo. Accession 160, a selection of PI 79532. Fruits pink, 6.5 oz., deep globe shape, fleshiness above average. Good tolerance to both radial and harvest cracking (bursting). Maturity is approx. 70 days. Perennial grown as annual. Breeding Material. Seed.
- PI 564092 **origin:** United States. **cultivar:** MO. 12-ST-9. **pedigree:** Selection of PI 79532, Bonny Best, Break-O-Day, Early Stone, Earliana, Rutgers. **other id:** Mo. 15-9/4-2. **other id:** Mo. 16-St-6. **other id:** Mo. 17-6/1 St-10. **remarks:** Plants indeterminate, rangy vines with leaves providing good coverage of fruits, adapted to stake culture. Fruits globe shape, red with green shoulders. Stem shallow and smooth, small blossom scar. Predominately 5 locules, thick carpel wall and septa. Core small. Seediness moderate. Population shows heavy selection pressure for fruit setting, high yields, and field immunity to *Fusarium oxysporum*. Perennial grown as annual. Breeding Material. Seed.
- PI 564093 **origin:** United States. **cultivar:** MO. 12-ST-11. **pedigree:** Al60/Bonny Best/Break-O-Day/Early Stone. **other id:** Mo. 16-St-8. **other id:** Mo. 17-St-8. **remarks:** Plants growth habit compact, leafy vine providing good fruit coverage. Adapted to ground or stake culture. Fruit globes slightly flattened, 5-6 oz., orange-red. Stem shallow. Shoulders smooth, small blossom scar. Predominately 5 locules. Carpel wall and septa medium. Seediness moderate. Maturity same as Break-O-Day. Heavy yielder. Field immunity to *Fusarium oxysporum*. Perennial grown as annual. Breeding Material. Seed.
- PI 564094 **origin:** United States. **cultivar:** MO. 31-ST-15. **pedigree:** Glamour/NY55-542//CAST MW479-6-1-BK. **remarks:** Plants indeterminate, vines rangy, foliage density moderate. Fruits red, 6 oz. average, globes, above average fleshiness. Fruit ripening uniform (uu) with good tolerance to radial cracking. Maturity midseason. Perennail grown as annual. Breeding Material. Seed.

PI 564095 to 564097. *Ipomoea batatas* (L.) Lam. var. *batatas*
CONVOLVULACEAE

Donated by: Delgado, Guillermo, Universidad Nacional Pedro Ruiz Gallo, 8 De Octubra No. 637, Lambayeque, Peru. Received September 05, 1985.

PI 564095 to 564097-continued

PI 564095 **origin:** Peru. **other id:** C 16679. **other id:** 7. **other id:** Q 25707. Tissue Culture.

PI 564096 **origin:** Peru. **other id:** C 16679. **other id:** 8. **other id:** Q 25708. Tissue Culture.

PI 564097 **origin:** Peru. **other id:** C 16679. **other id:** 11. **other id:** Q 25709. Tissue Culture.

PI 564098 to 564114. *Ipomoea batatas* (L.) Lam. var. *batatas*
CONVOLVULACEAE

Donated by: Delgado, Guillermo, Universidad Nacional Pedro Ruiz Gallo, 8 De Octubre No. 637, Lambayeque, Peru. Received September 05, 1985.

PI 564098 **origin:** Peru. **other id:** C 16679. **other id:** 15. **other id:** Q 25711. Tissue Culture.

PI 564099 **origin:** Peru. **other id:** C 16679. **other id:** 32. **other id:** Q 25714. Tissue Culture.

PI 564100 **origin:** Peru. **other id:** C 16679. **other id:** 42. **other id:** Q 25717. Tissue Culture.

PI 564101 **origin:** Peru. **other id:** C 16679. **other id:** 43. **other id:** Q 25718. Tissue Culture.

PI 564102 **origin:** Peru. **other id:** C 16679. **other id:** 51. **other id:** Q 25719. Tissue Culture.

PI 564103 **origin:** Peru. **other id:** C 16679. **other id:** 52. **other id:** Q 25720. Tissue Culture.

PI 564104 **origin:** Peru. **other id:** C 16679. **other id:** 55. **other id:** Q 25721. Tissue Culture.

PI 564105 **origin:** Peru. **other id:** C 16679. **other id:** 58. **other id:** Q 25722. Tissue Culture.

PI 564106 **origin:** Peru. **other id:** C 16679. **other id:** 61. **other id:** Q 25723. Tissue Culture.

PI 564107 **origin:** Peru. **other id:** C 16679. **other id:** 64. **other id:** Q 25724. Tissue Culture.

PI 564108 **origin:** Peru. **other id:** C 16679. **other id:** 66. **other id:** Q 25725. Tissue Culture.

PI 564109 **origin:** Peru. **other id:** C 16679. **other id:** 72. **other id:** Q 25726. Tissue Culture.

PI 564098 to 564114-continued

PI 564110 **origin:** Peru. **other id:** C 16679. **other id:** 83. **other id:** Q 25727. Tissue Culture.

PI 564111 **origin:** Peru. **other id:** C 16679. **other id:** 91. **other id:** Q 25729. Tissue Culture.

PI 564112 **origin:** Peru. **other id:** C 16679. **other id:** 100. **other id:** Q 25733. Tissue Culture.

PI 564113 **origin:** Peru. **other id:** C 16679. **other id:** 102. **other id:** Q 25734. Tissue Culture.

PI 564114 **origin:** Peru. **other id:** C 16679. **other id:** 111. **other id:** Q 25736. Tissue Culture.

PI 564115. *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE

Donated by: Delgado, Guillermo, Universidad Nacional Pedro Ruiz Gallo, 8 De Octubra No. 637, Lambayeque, Peru. Received September 05, 1985.

origin: Peru. **other id:** C 16679. **other id:** 138. **other id:** Q 25752. Tissue Culture.

PI 564116. *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato

Donated by: AVRDC, P.O. Box 42, Shanhua, Tainan 74199, Taiwan. Received June 30, 1988.

donor id: CN 1108-13. **origin:** Taiwan. **other id:** BE-1871. **other id:** C20989. **other id:** Q 27153. Tuber.

PI 564117 to 564120. *Ipomoea batatas* (L.) Lam. var. *batatas*
CONVOLVULACEAE Sweet potato

Donated by: Tay, D., Genetic Resources Unit, AVRDC, P.O. Box 42, Tainan 74149, Taiwan. Received May 10, 1989.

PI 564117 **donor id:** CN 1216-10. **origin:** Taiwan. **other id:** BE-2335. **other id:** Q 27784. **remarks:** Plants semi-erect. Roots yellow, 28% dry matter. Flesh yellow. Texture dry after cooking. Suitable for cool-dry season (20 t/ha as compared to 14 for hot-wet season). Cultivated. Tissue Culture.

PI 564117 to 564120-continued

PI 564118 **donor id:** CN 1219-1. **origin:** Taiwan. **other id:** BE-2335. **other id:** Q 27785. **remarks:** Plants prostrate. Roots yellow, 27% dry matter. Flesh yellow. Texture dry after cooking. Suitable for hot-wet (22 t/ha) or cool-dry season (21 t/ha). Cultivated. Tissue Culture.

PI 564119 **donor id:** CN 1232-9. **origin:** Taiwan. **other id:** BE-2335. **other id:** Q 27786. **remarks:** Maturity early. Plants semi-erect. Roots yellow, 26% dry matter. Flesh pale yellow. Texture slightly dry after cooking. Suitable for cool-dry (24 t/ha) or hot wet season (20 t/ha). Cultivated. Tissue Culture.

PI 564120 **donor id:** CN 1510-25. **origin:** Taiwan. **other id:** BE-2335. **other id:** Q 27796. **remarks:** Maturity early. Plants semi-erect. Roots pale red, 29% dry matter. Flesh yellow. Texture moderately dry after cooking. Suitable for hot-wet or cool-dry season (26 t/ha). Cultivated. Tissue Culture.

PI 564121. *Ipomoea batatas* (L.) Lam. var. *batatas* CONVOLVULACEAE
Sweet potato

Donated by: Ng, S.Y.C., International Inst. of Tropical Agric., Oyo Road, PMB 5320, Ibadan, Nigeria. Received May 22, 1989.

origin: Nigeria. **cultivar:** TIB11. **other id:** BE-2356. **other id:** IB1988/361. **other id:** Q 27803. **remarks:** Flesh orange. Moderate resistance to SPVD. Cultivar. Tissue Culture.

PI 564122 to 564160. *Ipomoea batatas* (L.) Lam. var. *batatas*
CONVOLVULACEAE Sweet potato

Donated by: Kellock, L.; Beetham, P., Jose F. M., Plant Research Institute, Dept. of Agric. and Rural Affairs, Burnley Gardens, Swan Street, Burnley, Victoria 3121, Australia. Received March 07, 1990.

PI 564122 **donor id:** 11. **origin:** Tonga. **cultivar:** 83003-12. **other id:** Q 27977. Cultivar. Tissue Culture.

PI 564123 **donor id:** 13. **origin:** Tonga. **cultivar:** 83005-19. **other id:** 83003-19. **source:** D. LaBonte. Erroneous cultivar name.. **other id:** Q 27978. **remarks:** Cv. originally recorded as 83003-19. Changed to 83005-19 based on memo LaBonte to Hurtt 09/91. Cultivar. Tissue Culture.

PI 564124 **donor id:** 18. **origin:** Western Samoa. **cultivar:** IB01. **other id:** Q 27980. Cultivar. Tissue Culture.

PI 564122 to 564160-continued

PI 564125 donor id: 22. origin: Western Samoa. cultivar: IB05.
other id: Q 27981. Cultivar. Tissue Culture.

PI 564126 donor id: 28. origin: Western Samoa. cultivar: IB13.
other id: Q 27982. Cultivar. Tissue Culture.

PI 564127 donor id: 29. origin: Western Samoa. cultivar: IB14.
other id: Q 27983. Cultivar. Tissue Culture.

PI 564128 donor id: 32. origin: Solomon Islands. cultivar: ACC
308. other id: Q 27984. Cultivar. Tissue Culture.

PI 564129 donor id: 33. origin: Solomon Islands. cultivar: ACC
309. other id: Q 27985. Cultivar. Tissue Culture.

PI 564130 donor id: 35. origin: Solomon Islands. cultivar: ACC
206. other id: Q 27987. Cultivar. Tissue Culture.

PI 564131 donor id: 37. origin: Solomon Islands. cultivar: ACC
213. other id: Q 27988. Cultivar. Tissue Culture.

PI 564132 donor id: 42. origin: Papua New Guinea. cultivar: L 3.
other id: Q 27989. Cultivar. Tissue Culture.

PI 564133 donor id: 43. origin: Papua New Guinea. cultivar: L 6.
other id: Q 27990. Cultivar. Tissue Culture.

PI 564134 donor id: 46. origin: Papua New Guinea. cultivar: L 13.
other id: Q 27991. Cultivar. Tissue Culture.

PI 564135 donor id: 48. origin: Papua New Guinea. cultivar: L 18.
other id: Q 27992. Cultivar. Tissue Culture.

PI 564136 donor id: 52. origin: Papua New Guinea. cultivar: L 43.
other id: Q 27993. Cultivar. Tissue Culture.

PI 564137 donor id: 54. origin: Papua New Guinea. cultivar: L 46.
other id: Q 27995. Cultivar. Tissue Culture.

PI 564138 donor id: 57. origin: Papua New Guinea. cultivar: L
116. other id: Q 27996. Cultivar. Tissue Culture.

PI 564139 donor id: 59. origin: Papua New Guinea. cultivar: L
135. other id: Q 27997. Cultivar. Tissue Culture.

PI 564140 donor id: 67. origin: Papua New Guinea. cultivar: L
383. other id: Q 27998. Cultivar. Tissue Culture.

PI 564141 donor id: 68. origin: Papua New Guinea. cultivar: L
387. other id: Q 27999. Cultivar. Tissue Culture.

PI 564122 to 564160-continued

- PI 564142 donor id: 71. origin: Papua New Guinea. cultivar: NG7570. other id: Q 28000. Cultivar. Tissue Culture.
- PI 564143 donor id: 74. origin: Papua New Guinea. cultivar: AMASONTO. other id: Q 28001. Cultivar. Tissue Culture.
- PI 564144 donor id: 75. origin: Papua New Guinea. cultivar: WANMUN SMALL. other id: Q 28002. Cultivar. Tissue Culture.
- PI 564145 donor id: 77. origin: Papua New Guinea. cultivar: SERENTA. other id: Q 28003. Cultivar. Tissue Culture.
- PI 564146 donor id: 82. origin: Papua New Guinea. cultivar: WANMUN KABIUFA. other id: Q 28005. Cultivar. Tissue Culture.
- PI 564147 donor id: 83. origin: Papua New Guinea. cultivar: KEKORI. other id: Q 28006. Cultivar. Tissue Culture.
- PI 564148 donor id: 84. origin: Papua New Guinea. cultivar: PO4. other id: Q 28007. Cultivar. Tissue Culture.
- PI 564149 donor id: 86. origin: Papua New Guinea. cultivar: MARKHAM. other id: Q 28008. Cultivar. Tissue Culture.
- PI 564150 donor id: 89. origin: Papua New Guinea. cultivar: WASAMEA. other id: Q 28009. Cultivar. Tissue Culture.
- PI 564151 donor id: 90. origin: Papua New Guinea. cultivar: TAWA-1. other id: Q 28010. Cultivar. Tissue Culture.
- PI 564152 donor id: 91. origin: Papua New Guinea. cultivar: TALAUKE. other id: Q 28011. Cultivar. Tissue Culture.
- PI 564153 donor id: 92. origin: Papua New Guinea. cultivar: MBACKA. other id: Q 28012. Cultivar. Tissue Culture.
- PI 564154 donor id: 93. origin: Papua New Guinea. cultivar: KEANJA. other id: KEANGO. source: D. LaBonte. Mis-spelled cultivar name.. other id: Q 28013. remarks: Cv. name originally recorded as KEANGO. Changed to KEANJA based on memo LaBonte to Hurtt 09/91. Cultivar. Tissue Culture.
- PI 564155 donor id: 94. origin: Papua New Guinea. cultivar: UNDUANDOPA. other id: Q 28014. Cultivar. Tissue Culture.
- PI 564156 donor id: 100. origin: Philippines. cultivar: BNAS-1. other id: Q 28015. Cultivar. Tissue Culture.

PI 564122 to 564160-continued

PI 564157 **donor id:** 101. **origin:** Philippines. **cultivar:** VSP 1.
other id: Q 28016. Cultivar. Tissue Culture.

PI 564158 **donor id:** 102. **origin:** Philippines. **cultivar:** VSP 3.
other id: Q 28017. Cultivar. Tissue Culture.

PI 564159 **donor id:** 103. **origin:** Philippines. **cultivar:** VSP 4.
other id: Q 28018. Cultivar. Tissue Culture.

PI 564160 **donor id:** 125. **origin:** Australia. **cultivar:** RED
ABUNDANCE. **other id:** Q 28019. Cultivar. Tissue
Culture.

PI 564161 to 564162. *Ipomoea batatas* (L.) Lam. var. *batatas*
CONVOLVULACEAE

Donated by: Martin, F., USDA-ARS Tropical Research Station, P.O. Box
70, Mayaguez 00709, Puerto Rico. Received October 22, 1987.

PI 564161 **origin:** Puerto Rico. **cultivar:** MARGARITA. **other id:**
SPV-70 Subclone 2. **other id:** SPV70-. **other id:** Q 29439.
Annual. Cultivar. Tuber.

PI 564162 **origin:** Puerto Rico. **cultivar:** MARGARITA. **other id:**
SPV-70 Subclone 5. **other id:** SPV70-. **other id:** Q 29440.
Annual. Cultivar. Tuber.

PI 564163. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Texas Agr. Exp. Sta., College Station, Texas 77843,
United States. Received 1977.

origin: United States. **cultivar:** BTX623. Cultivar.
Seed.

PI 564164 to 564165. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Miller, F.R., Texas Agr. Exp. Sta., College Station,
Texas 77843, United States. Received 1984.

PI 564164 to 564165-continued

PI 564164 **origin:** United States. **cultivar:** RTX433. **pedigree:** Derived from (Tx414 crossed with SC0108-6-6-2-E2)-15-1-2-1-1-X-X. First 6 of the foregoing is underlined. 2 (in "E2") is a subscript. X's represent two generations of selfing. **other id:** PL-141. **source:** Crop Sci. 24(6):1225 1984. **group:** CSR-SORGHUM. **remarks:** Info. from Crop Sci. 24(6):1225 (1984) -- 3-dwarf. 100 - 110 cm tall. Resists most insecticide phytotoxic reactions. Dull midrib color. Purple plant color. Mahogany glumes. Awnless. Non-erect leaves. Non-senescent. Spikelet single seeded. Slightly hirtellous & flattened bioconvex caryopsis. Red. Thick mesocarp. No pigmented testa. Panicle long. Cylindrical. Semi-compact to slightly open. Foliar disease, downy mildew & anthracnose resistant. Can develop physiological black/purple spot on leaves. High yield. Cultivated. Breeding Material. Seed.

PI 564165 **origin:** United States. **cultivar:** RTX434. **pedigree:** Derived from (Tx414 crossed with SC0108-6-6-2-E2)-15-2-3-6-3-6-1-X-X. First 6 of the foregoing is underlined. 2 (in "E2") is a subscript. X's represent two generations of selfing. **other id:** PL-142. **source:** Crop Sci. 24(6):1226 1984. **group:** CSR-SORGHUM. **remarks:** Info. from Crop Sci 24(6):1226 (1984) -- high yield. Red-seeded. 3-dwarf. Well adapted tropics. Non-senescence. Panicle long. Cylindrical. Semi-compact to slightly open. Rachis nodes hirsute. Large number spikelets which are single seeded. Slightly hirtellous. Awnless. Tip straw colored. Mahogany base. Caryopsis red, flattened and biconvex. Thick mesocarp. Purple necrotic plant color. Juicy. Resistant anthracnose & downy mildew. Excellent green leaf retention and combining ability. Useful as restorer. Cultivated. Breeding Material. Seed.

PI 564166. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Sorensen, E.L., Agricultural Research Service - USDA, Kansas State University, Agronomy Dept., Manhattan, Kansas 66506, United States; and Kansas Agr. Exp. Sta.. **remarks:** KS 221 Alfalfa Germplasm. Received November 19, 1992.

origin: United States. **developed:** E.L. Sorensen, D.L. Stuteville, E.K. Horber, R.N. Peaden, D.Z. Skinner. **origin institute:** Agricultural Research Service -- USDA, Kansas State University, Agronomy Dept., Throckmorton Hall, Manhattan, Kansas 66506 United States. **cultivar:** KS 221. **pedigree:** Derived from BIC-7 germplasm. **other id:** GP-261. **group:** CSR-ALFALFA. **restricted:** CSR. **remarks:** Resistant to anthracnose (*Colletotrichum trifolii*, Race 1), bacterial wilt (*Clavibacter michiganense* subsp. *insidiosum*), downy mildew (*Peronospora trifoliorum*), fusarium wilt (*Fusarium oxysporum* f. sp. *medicaginis*), phytophthora root rot (*Phytophthora medicaginis*), verticillium wilt (*Verticillium albo-atrum*), pea aphid (*Acyrtosiphon pisum*), and the spotted alfalfa aphid (*Therioaphis maculata*). Breeding Material. Seed.

PI 564167. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Sorensen, E.L., Agricultural Research Service -- USDA, Kansas State University, Agronomy Dept., Manhattan, Kansas 66506, United States; and Kansas Agr. Exp. Sta.. **remarks:** KS 222 Alfalfa Germplasm. Received November 19, 1992.

origin: United States. **developed:** E.L. Sorensen, D.L. Stuteville, E.K. Horber, D.Z. Skinner. **origin institute:** Agricultural Research Service -- USDA, Kansas State University, Agronomy Dept., Throckmorton Hall, Manhattan, Kansas 66506-5501 United States. **cultivar:** KS 222. **pedigree:** Derived from Anchor, a Flemish-type cultivar that contains gp from Alfa, Apex, DuPuits and Saranac. **other id:** GP-262. **group:** CSR-ALFALFA. **restricted:** CSR. **remarks:** Resistant to anthracnose (*Colletotrichum trifolii*, Race 1), bacterial wilt (*Clavibacter michiganense* subsp. *insidiosum*), downy mildew (*Peronospora trifoliorum*), fusarium wilt (*Fusarium oxysporum* f. sp. *medicaginis*), pea aphid (*Acyrtosiphon pisum*), and the spotted alfalfa aphid (*Therioaphis maculata*). Breeding Material. Seed.

PI 564168. *Panicum coloratum* L. POACEAE Kleingrass

Donated by: Young, B., Agricultural Research Service - USDA, Grassland, Soil and Water Res. Lab, 808 E. Blackland Road, Temple, Texas 76502, United States. Received November 19, 1992.

origin: United States. **cultivar:** TEM-SR1. **pedigree:** Open-pollinated seed of PI 410177. Two cycles of recurrent sel. (cycle 1-visual, cycle 2-quantitative method that mechanically shakes culms). **remarks:** Selected specifically for resist. to seed shattering. Ave. seed mass of hand-harvested mature seed 0.996mg/seed. Compared to Selection-75, retains over twice the number of seed per inflorescence at 35 days after flowering, anthesis occurs 2-3 days later, produces more seed per inflorescence, leaves wider and stems greater in diameter. Yielded significantly less and more upright growth habit than Sel-75 and Verde. Perennial. Breeding Material. Seed.

PI 564169 to 564172. *Lycopersicon esculentum* Miller, nom. cons.
SOLANACEAE Tomato

Donated by: Peirce, L.C., University of New Hampshire, Dept. of Plant Biology, Nesmith Hall, Durham, New Hampshire 03824, United States. Received November 19, 1992.

PI 564169 **origin:** United States. **developed:** L.C. Peirce, M.L. Crispi, H.G. Miller. **origin institute:** University of New Hampshire, Dept. of Plant Biology, Nesmith Hall, Durham, New Hampshire 03824 United States. **cultivar:** NEWIDA. **pedigree:** Ida Gold/ NC50-7. **remarks:** Especially suited for home gardens in far northern areas because of exceptional earliness. Plants very open, exposing many small elongate gold fruit. Fruit will crack. Timely harvests minimize cracking damage. Interior deep gold, meaty, slightly acid flavor. Fruit firm, very small core. Resistant to verticillium and fusarium wilts (race 1). Same susceptibility to early blight as Ida Gold. Annual. Cultivar. Seed.

PI 564170 **origin:** United States. **developed:** L.C. Peirce, M.L. Crispi, H.G. Miller. **origin institute:** University of New Hampshire, Dept. of Plant Biology, Nesmith Hall, Durham, New Hampshire 03824 United States. **cultivar:** GOLD DUST. **pedigree:** Includes some of the same parentage as Superb Hybrid but is open pollinated type in which the tangerine gene was obtained from Orange Queen and Golden Delicious. **remarks:** Many fruit produced on small vine. Plant habit open and very compact size makes it equally suitable for high density field production or for container culture in urban sites. Fruit globe-shaped, very firm, moderate size, with as many as 10-11 fruit ripening on single plant at one time. Little or no cracking or blotchy ripening, no lobing, and blossom scar small under normal conditions. Unripe color uniform, ripening to deep orange. Interior also deep orange, uniform. Inner and outer walls meaty. Core size slightly smaller than average. Resistant to verticillium wilt. Annual. Cultivar. Seed.

PI 564171 **origin:** United States. **developed:** L.C. Peirce, M.L. Crispi, H.G. Miller. **origin institute:** University of New Hampshire, Dept. of Plant Biology, Nesmith Hall, Durham, New Hampshire 03824 United States. **cultivar:** UNH 103-1. **pedigree:** Contains common germplasm, particularly cvs. and breeding lines used as sources of firmness and color. (Line 617-62, 1252, Wo24MD, St-11, Sub Arctic Delight, Red Miniature). **remarks:** Resistant to verticillium. Annual. Cultivar. Seed.

PI 564172 **origin:** United States. **developed:** L.C. Peirce, M.L. Crispi, H.G. Miller. **origin institute:** University of New Hampshire, Dept. of Plant Biology, Nesmith Hall, Durham, New Hampshire 03824 United States. **cultivar:** UNH 201-5. **pedigree:** Contains common germplasm, particularly cvs. and breeding lines used as sources of firmness and color. (Line 617-62, 1252, Wo24MD, St-11, Sub Arctic Delight, Red Miniature). Annual. Cultivar. Seed.

PI 564173 to 564178. *Aegilops biuncialis* Vis. POACEAE

Donated by: Kimber, G., University of Missouri, Dept. of Agronomy, 205 Curtis Hall, Columbia, Missouri 65211, United States. Received October 01, 1992.

PI 564173 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK211-001. **locality:** Troy; near Trojan Horse and ruins to west. **elevation:** 25m. **received as:** *Triticum macrochaetum*. Wild. Seed.

PI 564173 to 564178-continued

- PI 564174 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK212-005. **locality:** Tusan Motel, Gizelyali village; about 15 km south of Canakkale. **elevation:** 25m. **received as:** *Triticum macrochaetum*. Wild. Seed.
- PI 564175 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK213-004. **locality:** 7 km northeast of Canakkale, enroute to Lapseki. **elevation:** 80m. **received as:** *Triticum macrochaetum*. Wild. Seed.
- PI 564176 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK230-004. **locality:** 11 km northwest of Karacabey. **elevation:** 20m. **received as:** *Triticum macrochaetum*. Wild. Seed.
- PI 564177 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK232-004. **locality:** 1 km southwest of Zeytinbagi. **elevation:** 50m. **received as:** *Triticum macrochaetum*. Wild. Seed.
- PI 564178 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK233-001. **locality:** at pier in Zeytinbagi. **elevation:** 2m. **received as:** *Triticum macrochaetum*. Wild. Seed.

PI 564179 to 564182. *Aegilops columnaris* Zhuk. POACEAE

Donated by: Kimber, G., University of Missouri, Dept. of Agronomy, 205 Curtis Hall, Columbia, Missouri 65211, United States. Received October 01, 1992.

- PI 564179 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK038-103. **locality:** 23 km southeast of Manavgat, near Okucalar village. **elevation:** 50m. **received as:** *Triticum columnare*. Wild. Seed.

PI 564179 to 564182-continued

- PI 564180 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK044-113. **locality:** 58 km southwest of Silifke; 4 km west of Ovacik, Mersin. **elevation:** 250m. **received as:** *Triticum columnare*. Wild. Seed.
- PI 564181 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK045-116. **locality:** 49 km southwest of Silifke, Mersin. **elevation:** 150m. **received as:** *Triticum columnare*. Wild. Seed.
- PI 564182 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK209-002. **locality:** 9 km southeast of Ayvacik. **elevation:** 420m. **received as:** *Triticum columnare*. Wild. Seed.

PI 564183 to 564193. *Aegilops geniculata* Roth POACEAE

Donated by: Kimber, G., University of Missouri, Dept. of Agronomy, 205 Curtis Hall, Columbia, Missouri 65211, United States. Received October 01, 1992.

- PI 564183 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK209-004. **locality:** 9 km southeast of Ayvacik. **elevation:** 420m. **received as:** *Triticum ovatum*. Wild. Seed.
- PI 564184 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK212-006. **locality:** Tusan Motel, Gizelyali village; about 15 km south of Canakkale. **elevation:** 25m. **received as:** *Triticum ovatum*. Wild. Seed.
- PI 564185 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK214-002. **locality:** 15 km northeast of Canakkale enroute to Lapseki; west edge of Yapiadlik village. **elevation:** 70m. **received as:** *Triticum ovatum*. Wild. Seed.

PI 564183 to 564193-continued

- PI 564186 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK215-004. **locality:** 3 km southwest of Lapseki. **elevation:** 10m. **received as:** *Triticum ovatum*. Wild. Seed.
- PI 564187 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK226-002. **locality:** 12 km southeast of Bandirma, just north of junction. **elevation:** 30m. **received as:** *Triticum ovatum*. Wild. Seed.
- PI 564188 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK228-002. **locality:** 3 km east of Erdek. **elevation:** 15m. **received as:** *Triticum ovatum*. Wild. Seed.
- PI 564189 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK228-004. **locality:** 3 km east of Erdek. **elevation:** 15m. **received as:** *Triticum ovatum*. Wild. Seed.
- PI 564190 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK230-003. **locality:** 11 km northwest of Karacabey. **elevation:** 20m. **received as:** *Triticum ovatum*. Wild. Seed.
- PI 564191 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK232-005. **locality:** 1 km southwest of Zeytinbagi. **elevation:** 50m. **received as:** *Triticum ovatum*. Wild. Seed.
- PI 564192 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK234-002. **locality:** west edge of Mudanya village. **elevation:** 50m. **received as:** *Triticum ovatum*. Wild. Seed.

PI 564183 to 564193-continued

PI 564193 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK235-003. **locality:** 8 km east of Mudanya. **elevation:** 70m. **received as:** *Triticum ovatum*. Wild. Seed.

PI 564194 to 564198. *Aegilops markgrafii* (Greuter) K. Hammer POACEAE

Donated by: Kimber, G., University of Missouri, Dept. of Agronomy, 205 Curtis Hall, Columbia, Missouri 65211, United States. Received October 01, 1992.

PI 564194 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK209-006. **locality:** 9 km southeast of Ayvacik. **elevation:** 420m. **received as:** *Triticum dichasians*. Wild. Seed.

PI 564195 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK212-007. **locality:** Tusan Motel, Gizelyali village; about 15 km south of Canakkale. **elevation:** 25m. **received as:** *Triticum dichasians*. Wild. Seed.

PI 564196 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK213-005. **locality:** 7 km northeast of Canakkale, enroute to Lapseki. **elevation:** 80m. **received as:** *Triticum dichasians*. Wild. Seed.

PI 564197 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK214-004. **locality:** 15 km northeast of Canakkale enroute to Lapseki; west edge of Yapiadlik village. **elevation:** 70m. **received as:** *Triticum dichasians*. Wild. Seed.

PI 564198 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84Tk215-002. **locality:** 3 km southwest of Lapseki. **elevation:** 10m. **received as:** *Triticum dichasians*. Wild. Seed.

PI 564199 to 564218. *Aegilops neglecta* Req. ex Bertol. POACEAE

Donated by: Kimber, G., University of Missouri, Dept. of Agronomy, 205 Curtis Hall, Columbia, Missouri 65211, United States. Received October 01, 1992.

- PI 564199 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK212-004. **locality:** Tusan Motel, Gizelyali village; about 15 km south of Canakkale. **elevation:** 25m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564200 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK213-002. **locality:** 7 km northeast of Canakkale, enroute to Lapseki. **elevation:** 80m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564201 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK214-005. **locality:** 15 km northeast of Canakkale enroute to Lapseki; west edge of Yapiadlik village. **elevation:** 70m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564202 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK215-003. **locality:** 3 km southwest of Lapseki. **elevation:** 10m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564203 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK218-004. **locality:** 5 km northwest of Can. **elevation:** 50m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564204 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK220-002. **locality:** 24 km southeast of Yenice. **elevation:** 190m. **received as:** *Triticum triaristatum*. Wild. Seed.

- PI 564205 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK221-001. **locality:** 17 km northwest of Balya. **elevation:** 450m. **received as:** Triticum triaristatum. Wild. Seed.
- PI 564206 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK221-002. **locality:** 17 km northwest of Balya. **elevation:** 450m. **received as:** Triticum triaristatum. Wild. Seed.
- PI 564207 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK221-003. **locality:** 17 km northwest of Balya. **elevation:** 450m. **received as:** Triticum triaristatum. Wild. Seed.
- PI 564208 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK222-001. **locality:** 4 km south of Balya. **elevation:** 300m. **received as:** Triticum triaristatum. Wild. Seed.
- PI 564209 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK224-002. **locality:** 14 km southwest of Susurluk. **received as:** Triticum triaristatum. Wild. Seed.
- PI 564210 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK224-005. **locality:** 14 km southwest of Susurluk. **received as:** Triticum triaristatum. Wild. Seed.
- PI 564211 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK225-002. **locality:** 20 km north of Susurluk. **elevation:** 30m. **received as:** Triticum triaristatum. Wild. Seed.

PI 564199 to 564218-continued

- PI 564212 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK228-007. **locality:** 3 km east of Erdek. **elevation:** 15m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564213 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK231-003. **locality:** 8 km north of Bursa junction enroute to Zeytinbagi. **elevation:** 20m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564214 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK231-004. **locality:** 8 km north of Bursa junction enroute to Zeytinbagi. **elevation:** 20m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564215 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK232-002. **locality:** 1 km southwest of Zeytinbagi. **elevation:** 50m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564216 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK234-001. **locality:** west edge of Mudanya village. **elevation:** 50m. **received as:** *Triticum neglecta*. Wild. Seed.
- PI 564217 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK234-003. **locality:** west edge of Mudanya village. **elevation:** 50m. **received as:** *Triticum triaristatum*. Wild. Seed.
- PI 564218 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK236-005. **locality:** 1 km south of Gemlik. **elevation:** 60m. **received as:** *Triticum triaristatum*. Wild. Seed.

PI 564219 to 564233. *Aegilops triuncialis* L. POACEAE

Donated by: Kimber, G., University of Missouri, Dept. of Agronomy, 205 Curtis Hall, Columbia, Missouri 65211, United States. Received October 01, 1992.

PI 564219 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK031-085. **locality:** Perge, Roman ruins. **elevation:** 10m. **received as:** *Triticum triunciale*. Wild. Seed.

PI 564220 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK209-003. **locality:** 9 km southeast of Ayvacik. **elevation:** 420m. **received as:** *Triticum triunciale*. Wild. Seed.

PI 564221 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK211-002. **locality:** Troy; near Trojan Horse and ruins to west. **elevation:** 25m. **received as:** *Triticum triunciale*. Wild. Seed.

PI 564222 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK212-003. **locality:** Tusan Motel, Gizelyali village; about 15 km south of Canakkale. **elevation:** 25m. **received as:** *Triticum triunciale*. Wild. Seed.

PI 564223 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK213-003. **locality:** 7 km northeast of Canakkale, enroute to Lapseki. **elevation:** 80m. **received as:** *Triticum triunciale*. Wild. Seed.

PI 564224 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK214-001. **locality:** 15 km northeast of Canakkale enroute to Lapseki; west edge of Yapiadlik village. **elevation:** 70m. **received as:** *Triticum triunciale*. Wild. Seed.

PI 564219 to 564233-continued

- PI 564225 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK215-001. **locality:** 3 km southwest of Lapseki. **elevation:** 10m. **received as:** Triticum triunciale. Wild. Seed.
- PI 564226 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK218-001. **locality:** 5 km northwest of Can. **elevation:** 50m. **received as:** Triticum triunciale. Wild. Seed.
- PI 564227 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK218-002. **locality:** 5 km northwest of Can. **elevation:** 50m. **received as:** Triticum triunciale. Wild. Seed.
- PI 564228 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK220-001. **locality:** 24 km southeast of Yenice. **elevation:** 190m. **received as:** Triticum triunciale. Wild. Seed.
- PI 564229 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK223-008. **locality:** 18 km southeast of Balya. **elevation:** 200m. **received as:** Triticum triunciale. Wild. Seed.
- PI 564230 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK226-004. **locality:** 12 km southeast of Bandirma, just north of junction. **elevation:** 30m. **received as:** Triticum triunciale. Wild. Seed.
- PI 564231 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK228-006. **locality:** 3 km east of Erdek. **elevation:** 15m. **received as:** Triticum triunciale. Wild. Seed.

PI 564219 to 564233-continued

PI 564232 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK230-001. **locality:** 11 km northwest of Karacabey. **elevation:** 20m. **received as:** Triticum triunciale. Wild. Seed.

PI 564233 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK232-003. **locality:** 1 km southwest of Zeytinbagi. **elevation:** 50m. **received as:** Triticum triunciale. Wild. Seed.

PI 564234 to 564235. *Aegilops umbellulata* Zhuk. POACEAE

Donated by: Kimber, G., University of Missouri, Dept. of Agronomy, 205 Curtis Hall, Columbia, Missouri 65211, United States. Received October 01, 1992.

PI 564234 **origin:** Turkey. **collected:** June 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; S. Jana, Univ. of Saskatchewan. **collector id:** 84TK020-047. **locality:** 8 km north of Elmali/Finike road junction toward Elmali. **elevation:** 190m. **received as:** Triticum umbellulatum. Wild. Seed.

PI 564235 **origin:** Turkey. **collected:** July 1984. **collector:** M. Kanbertay, C. Tuten, Aegean Agric. Res. Center, Menemen R.J. Metzger, USDA-ARS; G. Kimber, Univ. of Missouri. **collector id:** 84TK209-005. **locality:** 9 km southeast of Ayvacik. **elevation:** 420m. **received as:** Triticum umbellulatum. Wild. Seed.

PI 564236 to 564237. *Cynodon dactylon* (L.) Pers. POACEAE Bermudagrass

Donated by: Nickson, D., The Peninsula Country Golf Club, Skye Road, P.O. Box 145, Frankston, Victoria 3199, Australia. Received May 08, 1989.

PI 564236 **donor id:** 2. **origin:** Australia. **other id:** Q 27767. **locality:** Ecotype from golf club grounds, Frankston. Plant.

PI 564237 **donor id:** 14. **origin:** Australia. **other id:** Q 27779. **locality:** Ecotype from golf club grounds, Frankston. Plant.

PI 564238. *Eulaliopsis binata* (Retz.) C. E. Hubb. POACEAE Sabai grass

Donated by: Sharp, W.C., Ecological Sciences Division, Soil Conservation Service, USDA, P.O. Box 2890, Washington, D.C. 20013, United States. Received May 07, 1990.

donor id: M-2. **origin:** India. **origin institute:** Central Soil & Water Cons. Res & Trn Ctr, Derka Dun India. **collected:** May 1, 1990. **collector:** W.C. Sharp, H.C. Safley, H.C. DeGarmo. **collector id:** M-2. **other id:** BE-2920. **other id:** IC111476. **other id:** Q 28073. **locality:** Grass evaluation plots. From local native stand. **remarks:** Under evaluation in a grass hedge experiment. Plant.

PI 564239. *Pennisetum purpureum* Schum. POACEAE Napier grass

Donated by: Sharp, W.C., Ecological Sciences Division, Soil Conservation Service, P.O. Box 2890, Washington, D.C. 20013, United States. **remarks:** Received through NBPGR, IARI Campus, New Delhi, India. Received May 07, 1990.

donor id: MS-1. **origin:** India. **origin institute:** Hemachel Pradesh Agr. Univ., Palampur India. **origin institute id:** PMB-37. **pedigree:** Improved selection. **collected:** April 23, 1990. **collector:** W.C. Sharp, J.M. Safley, H.C. DeGarmo. **collector id:** MS-1. **other id:** BE-2920. **other id:** IC111472. **other id:** Q 28074. **locality:** Grass nursery of D.C. Kadoch. **remarks:** Most cold tolerant of napier grass selections. Good potential for forage and use in grass hedges. Plant.

PI 564240 to 564241. *Cynodon dactylon* (L.) Pers. POACEAE Bermudagrass

Donated by: Taliaferro, C. M., Agronomy Dept., Oklahoma State Univ., Stillwater, Oklahoma 74078, United States. Received August 21, 1990.

PI 564240 **donor id:** Field No.3. **origin:** Zimbabwe. **collected:** August 11, 1990. **collector:** C.M. Taliaferro. **collector id:** Field No.3. **other id:** BE-3083. **other id:** Q 28304. **locality:** 30km W of Harare, near entrance of McIlwaine Game Park. **remarks:** Turf type. Plant.

PI 564241 **donor id:** Field No.19. **origin:** Zimbabwe. **collected:** August 17, 1990. **collector:** C.M. Taliaferro. **collector id:** Field No.19. **other id:** BE-3083. **other id:** Q 28310. **locality:** Royal Harare Golf Course (No. 10 Green), Harare. **remarks:** Common type, courser textured encroacher on Tifdwarf green. Plant.

PI 564242. *Cynodon hybrid* POACEAE

Donated by: Taliaferro, C. M., Agromomy Dept., Oklahoma State Univ., Stillwater, Oklahoma 74078, United States. Received August 21, 1990.

donor id: Field No. 17. **origin:** Zimbabwe. **collected:** August 17, 1990. **collector id:** Field No. 17. **other id:** BE-3083. **other id:** Q 28324. **locality:** Chapman Golf Course (No. 2 Green), Harare. **remarks:** Fine textured invader of Florida type. **received as:** *Cynodon hybrid*. Plant.

PI 564243. *Beta vulgaris* L. CHENOPODIACEAE Sugarbeet

Donated by: Lewellen, R.T., Agricultural Research Service -- USDA, U.S. Agricultural Research Station, Salinas, California 93905, United States. **remarks:** C48, C50, and C58 Sugarbeet Germplasm. Received November 1992.

origin: United States. **developed:** R.T. Lewellen, E.D. Whitney. **origin institute:** Agricultural Research Service -- USDA, U.S. Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905 United States. **cultivar:** C50. **pedigree:** Salinas collection of *B. maritima* accessions/Y54 sugarbeet. **other id:** GP-141. **group:** CSR-SUGARBEET. **restricted:** CSR. **remarks:** Highly heterogeneous with 50% coming from *B. maritima*. Can be successfully used as source of resistance to rhizomania and virus yellows (beet yellows and beet western yellows viruses). Shown wide variability for reaction to most diseases of sugarbeet, including curly top virus, cercospora leafspot (*Cercospora beticola*), powdery mildew (*Erysiphe polygoni*), downy mildew (*Peronospora farinosa*), rust (*Uromyces betae*), and erwinia root rot (*E. carotovora* subsp. *betavascularum*). Biennial. Breeding Material. Seed.

PI 564244. *Avena sativa* L. POACEAE Oat

Donated by: Gooding, R.W., Ohio Agr. Res. & Dev. Ctr., Ohio State University, Wooster, Ohio 44691-4096, United States. **remarks:** Armor Oat. Received November 1992.

origin: United States. **developed:** R.W. Gooding. **origin institute:** Ohio Agr. Res. & Dev. Ctr., Ohio State University, 1680 Madison Avenue, Wooster, Ohio 44691-4096 United States. **cultivar:** ARMOR. **pedigree:** Otee/Noble//Ogle. **other id:** CV-336. **group:** CSR-OAT. **restricted:** CSR. **remarks:** High yield potential and excellent straw strength. Midseason in maturity, medium tall. Moderately resistant to BYDV, but susceptible to prevalent races of *Puccinia coronata* f. sp. *avenae*. Juvenile growth habit erect. Culms and leaf margins glabrous. Ligules present. Panicles equilateral with ascending branches. Spikelet separation is by fracture. Floret separation is by disarticulation. Lemmas yellow and glabrous. Seed nonfluorescent. Awns infrequent, non-twisted, and average 20mm in length. Kernels bright yellow, medium sized, plump and finely tapered at tips. Spring Annual. Cultivar. Seed.

PI 564245. *Triticum aestivum* L., nom. cons. POACEAE Wheat

Donated by: Sears, R.G., Kansas State University, Agronomy Department, Throckmorton Hall, Manhattan, Kansas 66506-5501, United States. Received November 27, 1992.

origin: United States. **origin institute:** Kansas Agric. Exp. Station, Manhattan, Kansas United States. **cultivar:** KARL 92. **pedigree:** Plainsman V/3/Kaw/Atlas 50//Parker *5/Agent. **other id:** KS831374-142. **remarks:** Fll head row selection from Karl. Awned, white-glumed, semi-dwarf, hard red winter wheat. Equals Karl for all traits except yield averaging 268kg/ha-1 more grain than Karl. Resistant to Soilborne Wheat Mosaic Virus and Wheat Spindle Streak Mosaic. Excellent tolerance to *Puccinia graminis* f. sp. *tritici*, *Puccinia recondita* f. sp. *tritici*, *Pyrenophora tritici-repentis*, *Mycosphaerella graminicola*, *Leptosphaeria nodorum* and *Erysiphe graminis*. Winter Annual. Cultivar. Seed.

PI 564246. *Triticum aestivum* L., nom. cons. POACEAE Wheat

Donated by: Sears, R.G., Kansas Agr. Exp. Sta., Kansas State University, Agronomy Dept., Throckmorton Hall, Manhattan, Kansas 66506-5501, United States. Received November 27, 1992.

origin: United States. **origin institute:** Kansas Agr. Exp. Sta., Manhattan, Kansas United States. **cultivar:** ARLIN. **pedigree:** Unknown, selected from a bulk population. **other id:** KSSB369-7. **other id:** PVP 9300123. **source:** Pending. **group:** PVPO. **patent:** PVPO. **remarks:** Hard white winter wheat. White chaffed, semi-dwarf with excellent straw strength and yield potential. Winterhardiness fair. Moderately resistant to Soilborne Mosaic Virus, Puccinia graminis f. sp. tritici and Puccinia recondita f. sp. tritici. Protein concentration high. Excellent milling and baking properties. Winter Annual. Cultivar. Seed.

PI 564247 to 564253. *Triticum aestivum* L., nom. cons. POACEAE Wheat

Donated by: Talbert, L., Montana State University, Plant and Soil Science Dept., Bozeman, Montana 59717-0312, United States. Received November 27, 1992.

PI 564247 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-91. **pedigree:** PI 373129/Pondera//Pondera, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.

PI 564248 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-93. **pedigree:** PI 373129/Pondera//Pondera, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.

PI 564249 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-114. **pedigree:** PI 373129/Pondera//Pondera, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.

PI 564250 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-115. **pedigree:** PI 373129/Pondera//Pondera, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.

PI 564247 to 564253-continued

- PI 564251 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-120. **pedigree:** PI 373129/Pondera//Pondera, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.
- PI 564252 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-121. **pedigree:** PI 373129/Pondera//Pondera, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.
- PI 564253 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-123. **pedigree:** PI 373129/Pondera//Pondera, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.

PI 564254 to 564260. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Talbert, L., Montana State University, Plant and Soil Science Dept., Bozeman, Montana 59717-0312, United States. Received November 27, 1992.

- PI 564254 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-145. **pedigree:** PI 372129/Newana//Newana, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.
- PI 564255 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-149. **pedigree:** PI 372129/Newana//Newana, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.
- PI 564256 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-150. **pedigree:** PI 372129/Newana//Newana, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.

PI 564254 to 564260-continued

- PI 564257 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-158. **pedigree:** PI 372129/Newana//Newana, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.
- PI 564258 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-155. **pedigree:** PI 372129/Newana//Newana, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.
- PI 564259 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-160. **pedigree:** PI 372129/Newana//Newana, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.
- PI 564260 **origin:** United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MTRWA 92-161. **pedigree:** PI 372129/Newana//Newana, F6. **remarks:** Spring habit. Resistant to Russian wheat aphid (*Diuraphis noxia*). Kernels red. Spring Annual. Breeding Material. Seed.

PI 564261. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, E.E., Agricultural Research Service -- USDA, Soybean Production Research, Stoneville, Mississippi 38776, United States; and Mississippi Agr. and Forestry Exp. Sta. **remarks:** Vernal Soybean. Received November 27, 1992.

origin: United States. **developed:** E.E. Hartwig. **origin institute:** Agricultural Research Service -- USDA, Soybean Production Research, P.O. Box 196, Stoneville, Mississippi 38776 United States. **cultivar:** Vernal. **pedigree:** D77-12244 X Bedford. **other id:** CV-305. **group:** CSR-SOYBEAN. **restricted:** CSR. **remarks:** Plant type determinate. Flowers white. Pubescence grey. Pod walls tan at maturity. Seed yellow with buff, averaging 13.6g per 100. Plants resistant to bacterial pustule, stem canker and phytophthora rot, and sensitive to herbicide metribuzin. Unique flowering response, having a long juvenile period when grown under short-day conditions. Classified as Maturity Group VI at normal planting dates, but behaves as a late Group V when planted April 20, and as Group VII when planted June 20. Spring Annual. Breeding Material. Seed.

PI 564262 to 564263. *Medicago sativa* subsp. *falcata* (L.) Arcang.
FABACEAE Alfalfa

Donated by: Goose, R.W., Wyoming Agr. Exp. Sta., University of Wyoming, Laramie, Wyoming 82071-3354, United States. **remarks:** Two Alfalfa Germplasms. Received November 27, 1992.

PI 564262 **origin:** United States. **developed:** R.W. Goose, Y.G. Li. **origin institute:** Wyoming Agr. Exp. Sta., University of Wyoming, Dept. of Plant, Soil and Insect Sci., Laramie, Wyoming 82071 United States. **cultivar:** WY-RF2. **pedigree:** Developed by three cycles of half-sib family recurrent phenotypic selection from PI 260993 (USSR). Seed of WY-RF2 (Cycle 3) produced by intermating nine selected Cycle 2 clones. **other id:** GP-264. **group:** CSR-ALFALFA. **other id:** W6 11154. **group:** W6. **restricted:** CSR. **remarks:** Diploid ($2n=2x-16$) bred for biotechnology research and development. 93% embryogenic genotypes and more than 50% of these will produce well-formed, vigorous plantlets after 50 days on regeneration medium. Agronomically important traits should be nearly identical to PI 260993. Perennial. Breeding Material. Seed.

PI 564263 **origin:** United States. **developed:** R.W. Goose, Y.G. Li. **origin institute:** Wyoming Agr. Exp. Sta., University of Wyoming, Dept. of Plant, Soil and Insect Sci., Laramie, Wyoming 82071 United States. **cultivar:** WY-RF1. **pedigree:** Developed by three cycles of half-sib family recurrent phenotypic selection from PI 251830 (Austria). Seed of WY-RF1 (Cycle 3) produced by intermating seven selected Cycle 2 clones. **other id:** GP-263. **group:** CSR-ALFALFA. **other id:** W6 11155. **group:** W6. **restricted:** CSR. **remarks:** Diploid ($2n=2x-16$) bred for biotechnology research and development. 100% embryogenic genotypes and more than 50% of these will produce well-formed, vigorous plantlets after 50 days on regeneration medium. Agronomically important traits should be nearly identical to PI 251830. Perennial. Breeding Material. Seed.

PI 564264. *Juniperus conferta* Parlatores CUPRESSACEAE

Donated by: Martin, S., Agricultural Research Service -- USDA, U.S. National Arboretum, 3501 New York Avenue, NE, District of Columbia 20002, United States. Received November 30, 1992.

donor id: NA-40040. **origin:** Japan. **source history:** Aritaki Arboretum, Saitama-Ken, Japan. **cultivar:** BLUE LAGOON. **collected:** 1976. **collector:** J.L. Creech, S.G. March. **remarks:** Plant lower growing and more compact than the species or other cultivars. Forms dense, tight mat at maturity. Plant height 6 inches. Branches dense. Annual growth rate only 8-10 inches in width. Plant color medium, blush-green with single, white stomatic band on each needle. Average needle length 1 1/4mm. Winter foliage plum color. Entirely hardy in USDA Zone 5. Withstood low temperatures of -19 deg. C in evaluation plantings. Propagates easily by either soft or hardwood cuttings. Prefers full sun in any well-drained soil. Cultivar. Cutting.

PI 564265 to 564269. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010, United States; and Agricultural Research Service -- USDA. Received November 23, 1992.

PI 564265 **origin:** United States. **developed:** W.R. Fehr, R.C. Clark. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010 United States. **cultivar:** AP1. **pedigree:** PI 68704/PI 81029//PI 68600/PI 91150. **other id:** GP-13. **source:** Crop Sci. 13(6):778 1973. **group:** CSR-SOYBEAN. **remarks:** Population developed to increase genetic variability. Annual. Breeding Material. Seed.

PI 564266 **origin:** United States. **developed:** W.R. Fehr, R.C. Clark. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010 United States. **cultivar:** AP2. **pedigree:** PI 81029/Chippewa 64//PI 81029/3/PI 68704/C1426//PI 68704/4/ PI 68600/L15//PI 68600/3/Calland/PI 91150//PI 91150. **other id:** GP-14. **source:** Crop Sci. 13(6):778 1973. **group:** CSR-SOYBEAN. **remarks:** Population developed to increase genetic variability. Annual. Breeding Material. Seed.

PI 564267 **origin:** United States. **developed:** W.R. Fehr, R.C. Clark. **origin institute:** Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50010 United States. **cultivar:** AP3. **pedigree:** PI 81029/Chippewa 64//PI 68704/C1426/3/PI 68600/L15//Calland /PI 91150. **other id:** GP-15. **source:** Crop Sci. 13(6):778 1973. **group:** CSR-SOYBEAN. **remarks:** Population developed to increase genetic variability. Annual. Breeding Material. Seed.

PI 564265 to 564269-continued

PI 564268 **origin:** United States. **developed:** W.R. Fehr, R.C. Clark.
origin institute: Iowa Agr. and Home Econ. Exp. Station,
Iowa State University, Ames, Iowa 50010 United States.
cultivar: AP4. **pedigree:** PI 81029/Chippewa 64//Chippewa
64/3/PI 68704/C1426//C1426/4/ PI
68600/L15//L15/3/Calland/PI 91150//Calland. **other id:**
GP-16. **source:** Crop Sci. 13(6):778 1973. **group:**
CSR-SOYBEAN. **remarks:** Population developed to increase
genetic variability. Annual. Breeding Material. Seed.

PI 564269 **origin:** United States. **developed:** W.R. Fehr, R.C. Clark.
origin institute: Iowa Agr. and Home Econ. Exp. Station,
Iowa State University, Ames, Iowa 50010 United States.
cultivar: AP5. **pedigree:** C1426/Chippewa 64//L15/Calland.
other id: GP-17. **source:** Crop Sci. 13(6):778 1973.
group: CSR-SOYBEAN. **remarks:** Population developed to
increase genetic variability. Annual. Breeding
Material. Seed.

PI 564270. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Iowa Agr. and Home Econ. Exp. Station, Iowa State
University, Ames, Iowa 50010, United States; and Agricultural
Research Service -- USDA. Received November 23, 1992.

origin: United States. **developed:** W.R. Fehr, L.B. Ortiz.
origin institute: Iowa Agr. and Home Econ. Exp. Station,
Iowa State University, Ames, Iowa 50010 United States.
cultivar: AP6. **pedigree:** Intermated population derived
from 40 high-yielding strains of Group 0 to Group IV
maturity. **other id:** GP-19. **source:** Crop Sci. 15(5):739
1975. **group:** CSR-SOYBEAN. **remarks:** Developed to permit
recurrent selection for yield and other agronomic
characteristics. Annual. Breeding Material. Seed.

PI 564271. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Iowa Agr. and Home Econ. Exp. Station, Iowa State
University, Ames, Iowa 50011, United States; and Puerto Rico Agr.
Exp. Sta.. Received November 23, 1992.

origin: United States. **developed:** W.R. Fehr, S. Rodriguez de Ciazio. **origin institute:** Iowa Agr. and Home Econ. Exp. Sta., Iowa State University, Ames, Iowa 50011 United States. **cultivar:** AP9. **pedigree:** Population derived from 10 high-yielding cultivars or experimental strains and 10 plant introductions with the best resistance to iron-deficiency chlorosis. **other id:** GP-33. **source:** Crop Sci. 20(5):677 1980. **group:** CSR-SOYBEAN. **remarks:** Genetically diverse population with superior resistance to iron-deficiency chlorosis on calcareous soils. Annual. Breeding Material. Seed.

PI 564272 to 564275. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Iowa Agr. and Home Econ. Exp. Station, Iowa State University, Ames, Iowa 50011, United States; and Puerto Rico Agr. Exp. Sta.. Received November 23, 1992.

PI 564272 **origin:** United States. **developed:** W.R. Fehr, S. Rodriguez de Ciazio. **origin institute:** Iowa Agr. and Home Econ. Exp. Sta., Iowa State University, Ames, Iowa 50011 United States. **cultivar:** AP10. **pedigree:** Population developed from 40 plant introductions of Maturity Groups I to IV. **other id:** GP-35. **source:** Crop Sci. 21(3):477 1981. **group:** CSR-SOYBEAN. **remarks:** Population used to evaluate progress from recurrent selection in populations that differ in percentage of the percentage from plant introductions. Annual. Breeding Material. Seed.

PI 564273 **origin:** United States. **developed:** W.R. Fehr, S. Rodriguez de Ciazio. **origin institute:** Iowa Agr. and Home Econ. Exp. Sta., Iowa State University, Ames, Iowa 50011 United States. **cultivar:** AP12. **pedigree:** Population developed from 40 plant introductions and 40 high yielding cultivars or experimental lines of Maturity Groups I to IV. 50% of parentage derived from plant introductions. **other id:** GP-37. **source:** Crop Sci. 21(3):477 1981. **group:** CSR-SOYBEAN. **remarks:** Population used to evaluate progress from recurrent selection in populations that differ in percentage of the percentage from plant introductions. Annual. Breeding Material. Seed.

PI 564274 **origin:** United States. **developed:** W.R. Fehr, S. Rodriguez de Ciano. **origin institute:** Iowa Agr. and Home Econ. Exp. Sta., Iowa State University, Ames, Iowa 50011 United States. **cultivar:** AP13. **pedigree:** Population developed from 40 plant introductions and 40 high yielding cultivars or experimental lines of Maturity Groups I to IV. 25% of parentage derived from plant introductions. **other id:** GP-38. **source:** Crop Sci. 21(3):477 1981. **group:** CSR-SOYBEAN. **remarks:** Populations used to evaluate progress from recurrent selection in populations that differ in percentage of the percentage from plant introductions. Annual. Breeding Material. Seed.

PI 564275 **origin:** United States. **developed:** W.R. Fehr, S. Rodriguez de Ciano. **origin institute:** Iowa Agr. and Home Econ. Exp. Sta., Iowa State University, Ames, Iowa 50011 United States. **cultivar:** AP14. **pedigree:** Population developed from 40 high-yielding cultivars or experimental lines of Maturity Groups I to IV. **other id:** GP-39. **source:** Crop Sci. 21(3):477 1981. **group:** CSR-SOYBEAN. **remarks:** Population used to evaluate progress from recurrent selection in populations that differ in percentage of the percentage from plant introductions. Annual. Breeding Material. Seed.

PI 564276. Glycine max (L.) Merr. FABACEAE

Donated by: Orf, J.H., Minnesota Agr. Exp. Sta., University of Minnesota, St. Paul, Minnesota 55108, United States. Received November 23, 1992.

origin: United States. **developed:** J.H. Orf, J.W. Lamert, B.W. Kennedy. **origin institute:** Minnesota Agr. Exp. Sta., University of Minnesota, St. Paul, Minnesota 55108 United States. **cultivar:** M70-187. **pedigree:** F4 sel. from Merit X SS65-5702. **other id:** GP-46. **source:** Crop Sci. 24(1):213 1984. **group:** CSR-SOYBEAN. **remarks:** Maturity Group I. Flowers purple. Pubescence grey. Pods brown at maturity. Seeds dull yellow with buff hila. Matures about 2 days later than Hodgson 78. In comparison with Hodgson 78, similar in height, chlorosis score, and seed size but lodges somewhat more. Resistant to race 3 of soybean cyst nematode (Heterodera glycines) and races 1 & 2 of phytophthora rot (Phytophthora megasperma). Breeding Material. Seed.

PI 564277. Glycine max (L.) Merr. FABACEAE

Donated by: Walker, A.K., Ohio Agric. Res. and Dev. Center, Ohio State University, Dept. of Agronomy, Wooster, Ohio 44691, United States. Received November 23, 1992.

origin: United States. **developed:** A.K. Walker, A.F. Schmitthenner. **origin institute:** Ohio Agric. Res. and Dev. Center, Ohio State University, Dept. of Agronomy, Wooster, Ohio 44691 United States. **cultivar:** PMGT(SI)C3. **pedigree:** 10 high yielding lines and cvs. from Maturity Groups I to III with moderate or better tolerance levels to phytophthora rot caused by Phytophthora megasperma. **other id:** GP-47. **source:** Crop Sci. 24(1):213 1984. **group:** CSR-SOYBEAN. **remarks:** Population with superior tolerance to phytophthora rot (Phytophthora megasperma). Breeding Material. Seed.

FI 564278. Glycine max (L.) Merr. FABACEAE

Donated by: Walker, A.K., Ohio Agric. Res. and Dev. Center, Ohio State University, Dept. of Agronomy, Wooster, Ohio 44691, United States. Received November 23, 1992.

origin: United States. **developed:** A.K. Walker, A.F. Schmitthenner. **origin institute:** Ohio Agric. Res. and Dev. Center, Ohio State University, Dept. of Agronomy, Wooster, Ohio 44691 United States. **cultivar:** HW79149. **pedigree:** Developed from cross made July, 1977 between 2 near-isolines (A72-507 X A1) X (A72-507 X PI 82.263-2). **other id:** GP-48. **source:** Crop Sci. 24(1):214 1984. **group:** CSR-SOYBEAN. **remarks:** Flowers white. Pubescence grey. Pods brown at maturity. Seeds have a shiny yellow seed coat with yellow hila. Resistant to races 1-11 of Phytophthora megasperma f. sp. glycinea. Breeding Material. Seed.

PI 564279. Glycine max (L.) Merr. FABACEAE

Donated by: Nickell, C.D., Illinois Agr. Exp. Sta., Agronomy Dept., 1102 S Goodwin Ave., Urbana, Illinois 61801, United States; and Agricultural Research Service -- USDA. Received November 23, 1992.

origin: United States. **developed:** C.D. Nickell, S. Sebastian, D. Thomas, T. Mathis, L.E. Gray. **origin institute:** Illinois Agr. Exp. Sta., Agronomy Dept., 1102 S Goodwin Ave., Urbana, Illinois 61801 United States. **cultivar:** LN80-7579. **pedigree:** F4 sel. from Century X A76-304020. **other id:** GP-51. **source:** Crop Sci. 25(1):203 1985. **group:** CSR-SOYBEAN. **remarks:** Parent stock for soybean breeding and genetics programs. Flowers purple. Pubescence brown. Pods brown. Seeds with dull yellow coats and black hila. Group II maturity averaging 1 day later than Corsoy 79 and 2 days earlier than Century. In comparison with Century, averages 2% lower in seed yield in the absence of BSR and is similar in lodging, plant height, seed quality, seed weight, seed protein percentage, and seed oil percentage. Resistant to Races 1 and 2 of phytophthora rot (Phytophthora megasperma). Breeding Material. Seed.

PI 564280. Glycine max (L.) Merr. FABACEAE

Donated by: Nickell, C.D., Illinois Agr. Exp. Sta., Agronomy Dept., 1102 S Goodwin Ave., Urbana, Illinois 61801, United States; and Agricultural Research Service -- USDA. Received November 23, 1992.

origin: United States. **developed:** C.D. Nickell, S. Sebastian, D. Thomas, T. Mathis, L.E. Gray. **origin institute:** Illinois Agr. Exp. Sta., Agronomy Dept., 1102 S Goodwin Ave., Urbana, Illinois 61801 United States. **cultivar:** LN80-9709. **pedigree:** F4 sel. from Hardin X A76-304020. **other id:** GP-52. **source:** Crop Sci. 25(1):204 1985. **group:** CSR-SOYBEAN. **remarks:** Parent stock for soybean breeding and genetics programs. Flowers purple. Pubescence brown. Pods brown. Seeds with dull yellow coats and brown hila. Group III maturity averaging 4 days earlier than Cumberland. In comparison with Cumberland, averages 3% lower in seed yield in the absence of BSR and is similar in lodging, plant height, seed quality, seed weight, seed protein percentage, and seed oil percentage. Resistant to Races 1 and 2 of phytophthora rot (Phytophthora megasperma) and bacterial pustule (Xanthomonas (Xanthomonas phaseoli). Breeding Material. Seed.

PI 564281. Glycine max (L.) Merr. FABACEAE

Donated by: Hartwig, E.E., Agricultural Research Service -- USDA, Delta Branch Station, Soybean Production Research, Stoneville, Mississippi 38776, United States; and Mississippi Agric. & Forestry Exp. Sta.. Received November 23, 1992.

origin: United States. **developed:** E.E. Hartwig, L.D. Young. **origin institute:** Agricultural Research Service -- USDA, Delta Branch Station, Soybean Production Research, Stoneville, Mississippi 38776 United States. **cultivar:** J81-116. **pedigree:** F5 sel. from Bedford X (J74-77 X J74-88). **other id:** GP-54. **source:** Crop Sci. 25(1):209 1985. **group:** CSR-SOYBEAN. **remarks:** Maturity Group 5, averaging 4 days earlier in maturity than Forrest. Plants indeterminate. Pubescence tawny. Pods brown. Flowers white. Seeds yellow with black hila. Resistance to shattering is moderate. Plants resistant to foliar disease bacterial pustule (BP) (*Xanthomonas phaseoli*). Seed yield averaged 90% of that for Forest in the absence of SCN. Breeding Material. Seed.

PI 564282. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Martin, T.J., Kansas State University, Fort Hays Branch Agr. Exp. Sta., 1232 - 240th Ave., Hays, Kansas 67601, United States; and Agricultural Research Service -- USDA. **remarks:** KS84HW196 Wheat Germplasm. Received December 04, 1992.

origin: United States. **developed:** T.J. Martin, R.G. Sears, R.K. Bequette, M.D. Shogren, L.C. Bolte, J.R. Lawless, M.D. Witt. **origin institute:** Kansas Agr. Exp. Sta., Fort Hays Branch, 1232 - 240th Ave., Hays, Kansas 67601 United States. **origin institute id:** KS84HW196. **pedigree:** Bison/Sterling//3*Scout/3/Eagle/4/Pinnacle/2*Eagle. **other id:** GP-358. **group:** CSR-WHEAT. **restricted:** CSR. **remarks:** Hard white winter wheat. Plant awned, white-glumed, semi-dwarf. Slightly shorter than Newton or TAM107. Coleoptile length equal to standard height cultivar Eagle. Early maturing, equal to TAM107. Winter-hardiness equal to Scout. Disease and insect reactions same as Scout. Resistant to stem rust (*Puccinia graminis*). Susceptible to leaf rust (*P. recondita*), soilborne mosaic virus, wheat streak mosaic virus and Hessian fly, Mayetiola destructor. Winter Annual. Breeding Material. Seed.

PI 564283 to 564430. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Stoyanov, Ivan, Institute for Wheat and Sunflower, Dubroudja, Tolbukhin 9300, Bulgaria. Received October 01, 1991.

PI 564283 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 100-10. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564284 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 100/89. Breeding Material. Seed.
- PI 564285 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 102/89. Breeding Material. Seed.
- PI 564286 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 103/89. Breeding Material. Seed.
- PI 564287 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 1037-24-5. Breeding Material. Seed.
- PI 564288 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 10542-63/85. Breeding Material. Seed.
- PI 564289 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 10542-63/86. Breeding Material. Seed.
- PI 564290 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 10542-63/87. Breeding Material. Seed.
- PI 564291 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 10542-63/90. Breeding Material. Seed.
- PI 564292 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 109/89. Breeding Material. Seed.
- PI 564293 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 1094-1. Breeding Material. Seed.
- PI 564294 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 12/89. Breeding Material. Seed.
- PI 564295 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 121/89. Breeding Material. Seed.
- PI 564296 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 1265-76-10. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564297 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 127/89. Breeding Material. Seed.
- PI 564298 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 132/89. Breeding Material. Seed.
- PI 564299 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 148-133-14. Breeding Material. Seed.
- PI 564300 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 148-133-21. Breeding Material. Seed.
- PI 564301 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 15-92. Breeding Material. Seed.
- PI 564302 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 15-92-195. Breeding Material. Seed.
- PI 564303 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 15/89. Breeding Material. Seed.
- PI 564304 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 1506-26. Breeding Material. Seed.
- PI 564305 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 1537-306. Breeding Material. Seed.
- PI 564306 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 163/89. Breeding Material. Seed.
- PI 564307 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 166/89. Breeding Material. Seed.
- PI 564308 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 167/89. Breeding Material. Seed.
- PI 564309 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 171/89. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564310 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 172/89. Breeding Material. Seed.
- PI 564311 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 173/89. Breeding Material. Seed.
- PI 564312 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 178/89. Breeding Material. Seed.
- PI 564313 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 19-16. Breeding Material. Seed.
- PI 564314 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 19/89. Breeding Material. Seed.
- PI 564315 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 192/89. Breeding Material. Seed.
- PI 564316 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 195/89. Breeding Material. Seed.
- PI 564317 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 20/89. Breeding Material. Seed.
- PI 564318 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 21/89. Breeding Material. Seed.
- PI 564319 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 218/89. Breeding Material. Seed.
- PI 564320 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 2218-41. Breeding Material. Seed.
- PI 564321 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 236/89. Breeding Material. Seed.
- PI 564322 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 238/89. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564323 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 240/83-58. Breeding Material. Seed.
- PI 564324 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 249/89. Breeding Material. Seed.
- PI 564325 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 2504/82-51. Breeding Material. Seed.
- PI 564326 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 2514/82-105. Breeding Material. Seed.
- PI 564327 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 254/89. Breeding Material. Seed.
- PI 564328 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 28/89. Breeding Material. Seed.
- PI 564329 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 29/89. Breeding Material. Seed.
- PI 564330 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 301. Breeding Material. Seed.
- PI 564331 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 3088-46-16. Breeding Material. Seed.
- PI 564332 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 316/83-237. Breeding Material. Seed.
- PI 564333 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 330/83-220. Breeding Material. Seed.
- PI 564334 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 37/89. Breeding Material. Seed.
- PI 564335 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 39/89. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564336 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 422-40. Breeding Material. Seed.
- PI 564337 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 425-32-103. Breeding Material. Seed.
- PI 564338 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 425-32-95. Breeding Material. Seed.
- PI 564339 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 48/89. Breeding Material. Seed.
- PI 564340 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 505/83-31. Breeding Material. Seed.
- PI 564341 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 53/89. Breeding Material. Seed.
- PI 564342 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5303-1. Breeding Material. Seed.
- PI 564343 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5322-1. Breeding Material. Seed.
- PI 564344 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5370-24-4. Breeding Material. Seed.
- PI 564345 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5384-13-1. Breeding Material. Seed.
- PI 564346 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 543-49. Breeding Material. Seed.
- PI 564347 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 547-73. Breeding Material. Seed.
- PI 564348 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5726-2. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564349 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5946-2. Breeding Material. Seed.
- PI 564350 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5976-1. Breeding Material. Seed.
- PI 564351 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5989-1. Breeding Material. Seed.
- PI 564352 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5V253kr6r8b-rl. Breeding Material. Seed.
- PI 564353 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 5V254krlVr90. Breeding Material. Seed.
- PI 564354 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 6063-5. Breeding Material. Seed.
- PI 564355 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 6091-2. Breeding Material. Seed.
- PI 564356 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 6108-1. Breeding Material. Seed.
- PI 564357 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 6109-1. Breeding Material. Seed.
- PI 564358 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 612-6KR8Br8. Breeding Material. Seed.
- PI 564359 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 6123-3. Breeding Material. Seed.
- PI 564360 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 6158-3. Breeding Material. Seed.
- PI 564361 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 617-Vkrr8Br29. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564362 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 6202-1. Breeding Material. Seed.
- PI 564363 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 622-24-65. Breeding Material. Seed.
- PI 564364 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 6307-16. Breeding Material. Seed.
- PI 564365 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 648-46-80. Breeding Material. Seed.
- PI 564366 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 648-46-84. Breeding Material. Seed.
- PI 564367 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 66/89. Breeding Material. Seed.
- PI 564368 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 661-46-82. Breeding Material. Seed.
- PI 564369 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 68/89. Breeding Material. Seed.
- PI 564370 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 726-31-75. Breeding Material. Seed.
- PI 564371 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 769-22-6. Breeding Material. Seed.
- PI 564372 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 79/89. Breeding Material. Seed.
- PI 564373 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 830-41-70. Breeding Material. Seed.
- PI 564374 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 86/89. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564375 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 863-27-46. Breeding Material. Seed.
- PI 564376 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 878-91-21. Breeding Material. Seed.
- PI 564377 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 911-C-46. Breeding Material. Seed.
- PI 564378 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 911-C-7. Breeding Material. Seed.
- PI 564379 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 92/89. Breeding Material. Seed.
- PI 564380 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 94/89. Breeding Material. Seed.
- PI 564381 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 958-113-5. Breeding Material. Seed.
- PI 564382 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 98/89. Breeding Material. Seed.
- PI 564383 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** AK-302-1. Breeding Material. Seed.
- PI 564384 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** AK-302-2. Breeding Material. Seed.
- PI 564385 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** AK-3837-5-17. Breeding Material. Seed.
- PI 564386 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** AK-7039-12. Breeding Material. Seed.
- PI 564387 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** AK-7118-2. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564388 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** AX-298-5. Breeding Material. Seed.
- PI 564389 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** F7krl8ar1VV. Breeding Material. Seed.
- PI 564390 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** FT-1502-9-1. Breeding Material. Seed.
- PI 564391 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** GP-5460-994. Breeding Material. Seed.
- PI 564392 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** GP-6191-269. Breeding Material. Seed.
- PI 564393 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** GP-6231-18. Breeding Material. Seed.
- PI 564394 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** GP-6464-125. Breeding Material. Seed.
- PI 564395 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** GP-7523-11. Breeding Material. Seed.
- PI 564396 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** ID-1005-6. Breeding Material. Seed.
- PI 564397 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** ID-1052-4. Breeding Material. Seed.
- PI 564398 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** ID-1220-1. Breeding Material. Seed.
- PI 564399 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** ID-1227-2. Breeding Material. Seed.
- PI 564400 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** ID-1475-2. Breeding Material. Seed.

PI 564283 to 564430-continued

- PI 564401 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** ID-1623-2. Breeding Material. Seed.
- PI 564402 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** ID-367-70. Breeding Material. Seed.
- PI 564403 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** ID-428-3. Breeding Material. Seed.
- PI 564404 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** TR-1020-75. Breeding Material. Seed.
- PI 564405 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** TR-420-48. Breeding Material. Seed.
- PI 564406 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** TR-420-72. Breeding Material. Seed.
- PI 564407 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** TR-527-117. Breeding Material. Seed.
- PI 564408 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** TR-880-152. Breeding Material. Seed.
- PI 564409 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** TR-880-58. Breeding Material. Seed.
- PI 564410 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** TR-FKN1150-17. Breeding Material. Seed.
- PI 564411 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** kr22arl6r1. Breeding Material. Seed.
- PI 564412 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** kr22r2lr4. Breeding Material. Seed.
- PI 564413 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** BORIANA. Cultivar. Seed.

PI 564283 to 564430-continued

- PI 564414 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** DIMITROVKA 5-12. Cultivar. Seed.
- PI 564415 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** IANTAR. Cultivar. Seed.
- PI 564416 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** IUBILEI. Cultivar. Seed.
- PI 564417 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** KALIAKRA 2. Cultivar. Seed.
- PI 564418 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** KALOIAN. Cultivar. Seed.
- PI 564419 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** KRAPETC. Cultivar. Seed.
- PI 564420 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** LASEN. Cultivar. Seed.
- PI 564421 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** PRESPA. Cultivar. Seed.
- PI 564422 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** PROSTOR. **pedigree:** Roussalka improved/Nadadores 63. Cultivar. Seed.
- PI 564423 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** REKVIEM. Cultivar. Seed.
- PI 564424 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** SLAVIANKA. Cultivar. Seed.
- PI 564425 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** TOHARODEIKA. Cultivar. Seed.
- PI 564426 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** TRAIANA. Cultivar. Seed.

PI 564283 to 564430-continued

- PI 564427 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** VEGA. Cultivar. Seed.
- PI 564428 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** ZAGORE. Cultivar. Seed.
- PI 564429 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** ZLATOKLAS. Cultivar. Seed.
- PI 564430 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** ZLATOSTRUI. Cultivar. Seed.

PI 564431 to 564443. X Triticosecale sp. POACEAE

Donated by: Stoyanov, Ivan, Institute for Wheat and Sunflower, Dobroudja, Tolbukhin 9300, Bulgaria. Received October 01, 1991.

- PI 564431 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 1176-163. Breeding Material. Seed.
- PI 564432 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 1346-62. Breeding Material. Seed.
- PI 564433 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 1465-366. Breeding Material. Seed.
- PI 564434 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 1775-570. Breeding Material. Seed.
- PI 564435 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 2333-22. Breeding Material. Seed.
- PI 564436 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 579-447. Breeding Material. Seed.
- PI 564437 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 783-19-332. Breeding Material. Seed.

PI 564431 to 564443-continued

- PI 564438 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **origin institute id:** 968-600-132. **Breeding Material.** Seed.
- PI 564439 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** LASKO. **Cultivar.** Seed.
- PI 564440 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** MEKSITOL 1108. **Cultivar.** Seed.
- PI 564441 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** PERSENK. **pedigree:** AD-durum form/AD-No. 8//AD-No. 8. **remarks:** 2n=6x=42. **Cultivar.** Seed.
- PI 564442 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** PRESTO. **Cultivar.** Seed.
- PI 564443 **origin:** Bulgaria. **origin institute:** Institute for Wheat & Sunflower, Dobroudja, Tolbukhin Bulgaria. **cultivar:** VICHREN. **Cultivar.** Seed.

PI 564444 to 564446. *Avena sativa* L. POACEAE Oat

Donated by: Stoyanov, D., Inst. of Introduction & Genetic Res., "K. Malkov", Sadovo, Plovdiv 4122, Bulgaria. Received June 04, 1990.

- PI 564444 **donor id:** ISN 43. **origin:** Bulgaria. **cultivar:** ABRITUS 2. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. **Cultivar.** Seed.
- PI 564445 **donor id:** ISN 44. **origin:** Bulgaria. **cultivar:** DUNAV 1. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. **Cultivar.** Seed.
- PI 564446 **donor id:** ISN 45. **origin:** Bulgaria. **cultivar:** OBRASZOV TCHIFLIC 4. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. **Cultivar.** Seed.

PI 564447 to 564483. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: Stoyanov, D., Inst. of Introduction & Genetic Res., "K. Malkov", Sadovo, Plovdiv 4122, Bulgaria. Received June 04, 1990.

- PI 564447 **donor id:** ISN 284. **origin:** Bulgaria. **cultivar:** ZENIT. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. **Cultivar.** Seed.

PI 564447 to 564483-continued

- PI 564448 **donor id:** ISN 274. **origin:** Bulgaria. **cultivar:** RUEN.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564449 **origin:** Bulgaria. **cultivar:** NEBELIA. **collector:** Inst.
of Introduction & Plant Genetic Resources "K. Malkov",
Sadovo. Cultivar. Seed.
- PI 564450 **origin:** Bulgaria. **cultivar:** RUSSALKA. **collector:** Inst.
of Introduction & Plant Genetic Resources "K. Malkov",
Sadovo. Cultivar. Seed.
- PI 564451 **origin:** Bulgaria. **cultivar:** IZGREV. **collector:** Inst. of
Introduction & Plant Genetic Resources "K. Malkov",
Sadovo. Cultivar. Seed.
- PI 564452 **origin:** Bulgaria. **cultivar:** YUBILEYIO. **collector:** Inst.
of Introduction & Plant Genetic Resources "K. Malkov",
Sadovo. Cultivar. Seed.
- PI 564453 **donor id:** ISN 272. **origin:** Bulgaria. **cultivar:** KRASI 2.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564454 **origin:** Bulgaria. **cultivar:** OGOLON. **collector:** Inst. of
Introduction & Plant Genetic Resources "K. Malkov",
Sadovo. Cultivar. Seed.
- PI 564455 **origin:** Bulgaria. **cultivar:** ACHELOY 1. **collector:** Inst.
of Introduction & Plant Genetic Resources "K. Malkov",
Sadovo. Cultivar. Seed.
- PI 564456 **origin:** Bulgaria. **cultivar:** ROJEN. **collector:** Inst. of
Introduction & Plant Genetic Resources "K. Malkov",
Sadovo. Cultivar. Seed.
- PI 564457 **donor id:** ISN 279. **origin:** Bulgaria. **cultivar:**
KARNOBAT. **collector:** Inst. of Introduction & Plant
Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564458 **donor id:** ISN 283. **origin:** Bulgaria. **cultivar:** XEMUS.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564459 **donor id:** ISN 273. **origin:** Bulgaria. **cultivar:** OBZOR.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564460 **donor id:** ISN 270. **origin:** Bulgaria. **cultivar:** AHELOY.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.

PI 564447 to 564483-continued

- PI 564461 **donor id:** ISN 271. **origin:** Bulgaria. **cultivar:** KRASSI.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564462 **donor id:** ISN 275. **origin:** Bulgaria. **cultivar:** YUBILEJ
50. **collector:** Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564463 **donor id:** ISN 276. **origin:** Bulgaria. **cultivar:** YUBILEJ
100. **collector:** Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564464 **donor id:** ISN 278. **origin:** Bulgaria. **cultivar:** ELZA.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564465 **donor id:** ISN 280. **origin:** Bulgaria. **cultivar:** MARKELI
5. **collector:** Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564466 **donor id:** ISN 282. **origin:** Bulgaria. **cultivar:** STRANDJA
1. **collector:** Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564467 **donor id:** ISN 285. **origin:** Bulgaria. **cultivar:**
KAMTCHIA. **collector:** Inst. of Introduction & Plant
Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564468 **donor id:** ISN 287. **origin:** Bulgaria. **cultivar:** VEJEN
KT-2031. **collector:** Inst. of Introduction & Plant
Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564469 **donor id:** ISN 288. **origin:** Bulgaria. **cultivar:** KT 2058.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564470 **donor id:** ISN 289. **origin:** Bulgaria. **cultivar:**
LANDGERSTE AUS DER OSTIN. **collector:** Inst. of
Introduction & Plant Genetic Resources "K. Malkov",
Sadovo. Landrace. Seed.
- PI 564471 **donor id:** ISN 291. **origin:** Bulgaria. **cultivar:**
DONETZKII 8. **collector:** Inst. of Introduction & Plant
Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564472 **donor id:** ISN 294. **origin:** Bulgaria. **cultivar:** DORA.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564473 **donor id:** ISN 295. **origin:** Bulgaria. **cultivar:** DZUGAL.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.

PI 564447 to 564483-continued

- PI 564474 **donor id:** ISN 297. **origin:** Bulgaria. **cultivar:** KRUSEVASKI. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564475 **donor id:** ISN 298. **origin:** Bulgaria. **cultivar:** KLARA. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564476 **donor id:** ISN 299. **origin:** Bulgaria. **cultivar:** SELECTAS II ZWEIZEILIGE. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564477 **donor id:** ISN 300. **origin:** Bulgaria. **cultivar:** SUNNA. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564478 **donor id:** ISN 302. **origin:** Bulgaria. **cultivar:** MARTONVASARI MK-175. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564479 **donor id:** ISN 303. **origin:** Bulgaria. **cultivar:** NUTANS 0353/133. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564480 **donor id:** ISN 305. **origin:** Bulgaria. **cultivar:** SEMEICKY PIVOVAR. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564481 **donor id:** ISN 306. **origin:** Bulgaria. **origin institute id:** 280. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Breeding Material. Seed.
- PI 564482 **donor id:** ISN 307. **origin:** Bulgaria. **origin institute id:** 347. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Breeding Material. Seed.
- PI 564483 **donor id:** ISN 317. **origin:** Bulgaria. **cultivar:** ONOCHOJSKIJ 856. **collector:** Inst. of Introduction & Plant Genetic Resources "K. Malkov", Sadovo. Cultivar. Seed.

PI 564484 to 564486. X Triticosecale sp. POACEAE Triticale

Donated by: Stoyanov, D., Inst. of Introduction & Genetic Res., "K. Malkov", Sadovo, Plovdiv 4122, Bulgaria. Received June 04, 1990.

PI 564484 to 564486-continued

- PI 564484 **donor id:** ISN 606. **origin:** Bulgaria. **cultivar:** MT 7291.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564485 **donor id:** ISN 607. **origin:** Bulgaria. **cultivar:** PERUN.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.
- PI 564486 **donor id:** ISN 608. **origin:** Bulgaria. **cultivar:** MIZAR.
collector: Inst. of Introduction & Plant Genetic
Resources "K. Malkov", Sadovo. Cultivar. Seed.

PI 564487 to 564497. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: Grauf, R., Bayerische Land. fur Boden. und Pflanz.,
Vottinger Strasse 38, Freising, Bavaria 8050, Germany. Received
May 22, 1991.

- PI 564487 **origin:** Germany. **cultivar:** ALEXIS. **collector:** R. Grauf,
Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau,
Freising. **remarks:** Spring malting barley. Cultivar.
Seed.
- PI 564488 **origin:** Germany. **source history:** Developed in the former
DDR.. **cultivar:** BITRANA. **collector:** R. Grauf,
Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau,
Freising. **remarks:** Spring malting barley. Cultivar.
Seed.
- PI 564489 **origin:** Germany. **cultivar:** CHERI. **collector:** R. Grauf,
Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau,
Freising. **remarks:** Spring malting barley. Cultivar.
Seed.
- PI 564490 **origin:** Germany. **cultivar:** DEFRA. **collector:** R. Grauf,
Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau,
Freising. **remarks:** Spring malting barley. Cultivar.
Seed.
- PI 564491 **origin:** Germany. **source history:** Developed in the former
DDR.. **cultivar:** ELENA. **collector:** R. Grauf, Bayerische
Landesanstalt fur Bodenkultur und Pflanzenbau, Freising.
remarks: Spring malting barley. Cultivar. Seed.
- PI 564492 **origin:** Germany. **cultivar:** FINK. **collector:** R. Grauf,
Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau,
Freising. **remarks:** Spring malting barley. Cultivar.
Seed.

PI 564487 to 564497-continued

- PI 564493 **origin:** Germany. **source history:** Developed in the former DDR.. **cultivar:** KORINNA. **collector:** R. Grauf, Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau, Freising. **remarks:** Spring malting barley. Cultivar. Seed.
- PI 564494 **origin:** Germany. **source history:** Developed in the former DDR.. **cultivar:** KRONA. **collector:** R. Grauf, Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau, Freising. **remarks:** Spring malting barley. Cultivar. Seed.
- PI 564495 **origin:** Germany. **source history:** Developed in the former DDR.. **cultivar:** LARISSA. **collector:** R. Grauf, Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau, Freising. **remarks:** Spring malting barley. Cultivar. Seed.
- PI 564496 **origin:** Germany. **source history:** Developed in the former DDR.. **cultivar:** MARLEN. **collector:** R. Grauf, Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau, Freising. **remarks:** Spring malting barley. Cultivar. Seed.
- PI 564497 **origin:** Germany. **cultivar:** STEFFI. **collector:** R. Grauf, Bayerische Landesanstalt fur Bodenkultur und Pflanzenbau, Freising. **remarks:** Spring malting barley. Cultivar. Seed.

PI 564498 to 564503. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: Brown, W., Colorado State University, Colorado Agric. Exp. Sta., Ft. Collins, Colorado 80523, United States. Received September 01, 1991.

- PI 564498 **origin:** Bolivia. **cultivar:** IBTA 80. **collector:** W. Brown, Colorado Agric. Exp. Station, Ft. Collins. Cultivar. Seed.
- PI 564499 **origin:** Bolivia. **cultivar:** INCA. **collector:** W. Brown, Colorado Agric. Exp. Station, Ft. Collins. Cultivar. Seed.
- PI 564500 **origin:** Bolivia. **cultivar:** VALLUNO. **collector:** W. Brown, Colorado Agric. Exp. Station, Ft. Collins. Cultivar. Seed.
- PI 564501 **origin:** Bolivia. **cultivar:** K'OCHALA. **collector:** W. Brown, Colorado Agric. Exp. Station, Ft. Collins. Cultivar. Seed.

PI 564498 to 564503-continued

- PI 564502 **origin:** Bolivia. **cultivar:** NUSTA. **collector:** W. Brown, Colorado Agric. Exp. Station, Ft. Collins. Cultivar. Seed.
- PI 564503 **origin:** Bolivia. **cultivar:** SAN BENITO 80. **collector:** W. Brown, Colorado Agric. Exp. Station, Ft. Collins. Cultivar. Seed.

PI 564504 to 564507. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: VIR, 44 Herzen St., St. Petersburg, Russian Federation.
Received December 01, 1990.

- PI 564504 **origin:** Russian Federation. **source history:** Developed in the Krasnodar Region.. **cultivar:** DEBIUT. **collector:** N.I. Vavilov Institute of Plant Industry, St. Petersburg. **collector id:** VIR 25485. Cultivar. Seed.
- PI 564505 **origin:** Russian Federation. **source history:** Developed in the Odessa Region.. **cultivar:** ZIMRAN. **collector:** N.I. Vavilov Institute of Plant Industry, St. Petersburg. **collector id:** VIR 22026. Cultivar. Seed.
- PI 564506 **origin:** Russian Federation. **source history:** Developed in the Rostov Region.. **cultivar:** SILUET. **collector:** N.I. Vavilov Institute of Plant Industry, St. Petersburg. **collector id:** VIR 27704. Cultivar. Seed.
- PI 564507 **origin:** Russian Federation. **source history:** Developed in the Moscow Region.. **cultivar:** SNEGIRIOVSKIJ. **collector:** N.I. Vavilov Institute of Plant Industry, St. Petersburg. **collector id:** VIR 25998. Cultivar. Seed.

PI 564508. *Brassica tournefortii* Gouan BRASSICACEAE

Donated by: Koelz, Walter N., USDA-ARS, Beltsville, Maryland 20705-2350, United States. Received December 11, 1992.

origin: India. **collector:** Walter N. Koelz. **remarks:** Mixed sample with *Brassica rapa*, PI 179856. Seed.

PI 564509. *Brassica nigra* (L.) Koch BRASSICACEAE

Donated by: Gentry, H.S., USDA-ARS, Beltsville, Maryland 20705-2350, United States. Received December 11, 1992.

origin: Ethiopia. **remarks:** Mixed sample with *Brassica juncea*, PI 358591. Seed.

PI 564510 to 564511. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Arizona Agr. Exp. Sta., University of Arizona, Department of Plant Sciences, Mesa, Arizona 85201, United States. Received December 11, 1992.

PI 564510 **origin:** United States. **developed:** R.K. Thompson, K.C. Shantz. **origin institute:** Arizona Agr. Exp. Sta., University of Arizona, Department of Plant Sciences, Mesa, Arizona 85201 United States. **cultivar:** MSFRS CC A-1976. **pedigree:** F2 seed from male sterile facilitated, recurrently selected, and crossed plants increased at Bozeman, Montana. **other id:** GP-116. **source:** Crop Sci. 18(4):698 1978. **group:** CSR-WHEAT. **remarks:** Male sterile composite population. Breeding Material. Seed.

PI 564511 **origin:** United States. **developed:** R.K. Thompson, K.C. Shantz. **origin institute:** Arizona Agr. Exp. Sta., University of Arizona, Department of Plant Sciences, Mesa, Arizona 85201 United States. **cultivar:** MSFRS CC B-1976. **pedigree:** Outcrossed F2 seed set on male sterile plants (random mated) in the F2 MSFRS crossing block at Mesa, Arizona. **other id:** GP-117. **source:** Crop Sci. 18(4):698 1978. **group:** CSR-WHEAT. **remarks:** Male sterile composite population. Breeding Material. Seed.

PI 564512 to 564514. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Hanna, W.W., Agricultural Research Service -- USDA, University of Georgia, Tifton, Georgia 31793, United States; and Georgia Agr. Exp. Sta.. **remarks:** Tift MR9110, Tift MR9115, and Tift MR9120 Sorghum Germplasm. Received December 10, 1992.

PI 564512 **origin:** United States. **developed:** W.W. Hanna, B.R. Wiseman, R.R. Duncan.. **origin institute:** Agricultural Research Service -- USDA, University of Georgia, Agric. Res. Sta., Agronomy Dept., Coastal Plain Exp. Sta., Tifton, Georgia 31793 United States. **cultivar:** TIFT MR9110. **pedigree:** TAM 2782//Redbine 60/PI 383856. **other id:** GP-371. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Highly resistant to sorghum midge. White seeded with a testa and maintains sterility of the A1 cytoplasm in crosses with Tx623. 1.1m tall with a semi-compact panicle. Flowers in 58 to 65 days after planting at Tifton, GA. Breeding Material. Seed.

PI 564512 to 564514-continued

PI 564513 **origin:** United States. **developed:** W.W. Hanna, B.R. Wiseman, R.R. Duncan.. **origin institute:** Agricultural Research Service -- USDA, University of Georgia, Agric. Res. Sta., Agronomy Dept., Coastal Plain Exp. Sta., Tifton, Georgia 31793 United States. **cultivar:** TIFT MR9115. **pedigree:** TAM 2782//Redbine 60/PI 383856. **other id:** GP-372. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Highly resistant to sorghum midge. White seeded with a testa and maintains sterility of the Al cytoplasm in crosses with Tx623. 1.4m tall and has a compact panicle. Flowers in 58 to 65 days after planting at Tifton, GA. Breeding Material. Seed.

PI 564514 **origin:** United States. **developed:** W.W. Hanna, B.R. Wiseman, R.R. Duncan.. **origin institute:** Agricultural Research Service -- USDA, University of Georgia, Agric. Res. Sta., Agronomy Dept., Coastal Plain Exp. Sta., Tifton, Georgia 31793 United States. **cultivar:** TIFT MR9120. **pedigree:** TAM 2782//Redbine 60/PI 383856. **other id:** GP-373. **group:** CSR-SORGHUM. **restricted:** CSR. **remarks:** Highly resistant to sorghum midge. White seeded with a testa and maintains sterility of the Al cytoplasm in crosses with Tx623. 1.6m tall and has an open panicle similar to PI 383856. Flowers in 58 to 65 days after planting at Tifton, GA. Breeding Material. Seed.

PI 564515. *Helianthus* sp. ASTERACEAE Sunflower

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota 58105, United States. Received December 16, 1992.

origin: United States. **developed:** G.J. Seiler. **origin institute:** Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** TUB-365. **pedigree:** cms HA 89*3 (*Helianthus annuus*)/TUB-365 (*H. tuberosus*)F4. **other id:** GP-182. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Plants single headed. Plant height 116cm. Flowering (50%) 66 days after planting. Self-compatibility (seed set under bags) 89%. Viable pollen staining 93%. 100 seed weight 4.2g. Test weight 280 kg/m³. Oil content 36.4%. Spring Annual. Breeding Material. Seed.

PI 564516. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by: Hanna, W.W., Agricultural Research Service -- USDA, Georgia Coastal Plain Experiment Station, Tifton, Georgia 31793, United States; and Georgia Agr. Exp. Sta.. **remarks:** Al/B/Tift 90D2E1 pearl millet parental lines. Received December 10, 1992.

origin: United States. **developed:** W.W. Hanna. **origin institute:** Agricultural Research Service -- USDA, University of Georgia, Agric. Res. Sta., Coastal Plain Exp. Sta., Tifton, Georgia 31793 United States. **cultivar:** TIFT 90D2B1E1. **pedigree:** Cross between a rust and leaf spot resistant plant and a dwarf genotype of Tift 23B1E1. **other id:** PL-21. **group:** CSR-MILLET, PEARL. **restricted:** CSR. **remarks:** B1 (maintainer) line of 90D2E1. Highly resistant to leafspot and rust. Bottom one or two leaves on some plants may develop brown discoloration due to rust infection, but no pustules are formed. Disease resistance controlled by separate major dominant genes for each disease. Flowers 40 to 42 days after planting and averages 1.0m tall at maturity. Seeds brownish-gray in color. Spring Annual. Breeding Material. Seed.

PI 564517 to 564520. Helianthus hybrid ASTERACEAE Sunflower

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota 58105, United States; and North Dakota Agr. Exp. Sta.. **remarks:** Six Interspecific Germplasm Lines Derived from Wild Perennial Sunflower. Received December 10, 1992.

PI 564517 **origin:** United States. **developed:** G.J. Seiler. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** TUB-1709-1. **pedigree:** cms HA 89*2 (Helianthus annuus)/TUB-1709 (H. tuberosus) F3. **other id:** GP-183. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Plants single headed. Plant height 145cm, flowering (50%) 66 days after planting, self-compatibility (seed set under bags) 91%, viable pollen staining 92%, 100 seed weight 4.5g, test weight 391kg/m³, and oil content 42.8%. Spring Annual. Breeding Material. Seed.

PI 564518 **origin:** United States. **developed:** G.J. Seiler. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** TUB-1709-2. **pedigree:** cms HA 89*2 (Helianthus annuus)/TUB-1709 (H. tuberosus) F4. **other id:** GP-184. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Plants both single and multiple headed. Plant height 130cm, flowering (50%) 66 days after planting, self-compatibility (seed set under bags) 98%, viable pollen staining 91%, 100 seed weight 4.8g, test weight 386kg/m³, and oil content 43.3%. Spring Annual. Breeding Material. Seed.

PI 564517 to 564520-continued

PI 564519 **origin:** United States. **developed:** G.J. Seiler. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** TUB-1709-3. **pedigree:** cms HA 89*3 (*Helianthus annuus*)/TUB-1709 (*H. tuberosus*) F3. **other id:** GP-185. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Plants both single and multiple headed. Plant height 134cm, flowering (50%) 66 days after planting, self-compatibility (seed set under bags) 89%, viable pollen staining 87%, 100 seed weight 4.5g, test weight 391kg/m³, and oil content 43.4%. Spring Annual. Breeding Material. Seed.

PI 564520 **origin:** United States. **developed:** G.J. Seiler. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** TUB-1789. **pedigree:** cms HA 89//P-21 Peredovik*1 (*Helianthus annuus*)/TUB-1789 (*H. tuberosus*) F3. **other id:** GP-186. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Plants single headed. Plant height 150cm. Flowering (50%) 70 days after planting, self-compatibility (seed set under bags) 57%, viable pollen staining 98%, 100 seed weight 4.8g, test weight 386kg/m³, and oil content 41.1%. Spring Annual. Breeding Material. Seed.

PI 564521 to 564522. *Vicia sativa* L. FABACEAE Common vetch

Donated by: Mosjidis, J.A., Auburn University, Dept. of Agronomy & Soils, 201 Funchess Hall, Auburn, Alabama 36849-5412, United States. Received December 10, 1992.

PI 564521 **origin:** United States. **cultivar:** L2. **pedigree:** Interspecific cross, *V. sativa* (Als. 1894)/*V. angustifolia* (PI 121275). **remarks:** Early. Flowers purple. Approx. equal to Willamette and Warrior varieties of common vetch in winter hardiness. Resistant to vetch bruchid (*Bruchus brachialis*). Resistant to three species of root knot nematode (*Meloidogyne incognita*, *M. incognita acrita*, and *M. javanica*). Winter Annual. Breeding Material. Seed.

PI 564522 **origin:** United States. **cultivar:** ALA 1894. **pedigree:** Alba/Warrior, pure line breeding was used through F6. **remarks:** Produced early herbage and is early to flower. Seedcoat soft. Approx. as winter hardy as Willamette and Warrior varieties of common vetch. Resistant to vetch bruchid (*Bruchus brachialis*). Resistant to three species of root knot nematodes (*Meloidogyne incognita*, *M. incognita acrita*, and *M. javanica*). Winter Annual. Breeding Material. Seed.

PI 564523. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Rogers NK Seed Company, United States. Received December 14, 1992.

origin: United States. **origin institute:** Rogers NK Seed Company United States. **cultivar:** SUMMIT. **other id:** PVP 9300016. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564524. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Minnesota Agr. Exp. Sta., Minnesota, United States. Received December 14, 1992.

origin: United States. **origin institute:** Minnesota Agr. Exp. Sta, Minnesota United States. **cultivar:** Alpha. **other id:** PVP 9300017. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564525. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received December 14, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** S46-44. **other id:** PVP 9300018. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564526. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received December 14, 1992.

origin: United States. **origin institute:** Northrup King Company United States. **cultivar:** S62-66. **other id:** PVP 9300019. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564527. *Cucurbita pepo* L. CUCURBITACEAE Pumpkin

Donated by: Rupp Seeds, Inc., United States. Received December 14, 1992.

origin: United States. **origin institute:** Rupp Seeds, Inc. United States. **cultivar:** RS1090. **other id:** PVP 9300020. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564528. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Delta & Pine Land Company, United States. Received December 14, 1992.

origin: United States. **origin institute:** Delta & Pine Land Company United States. **cultivar:** DP 3818. **other id:** PVP 9300021. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564529. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Delta & Pine Land Company, United States. Received December 14, 1992.

origin: United States. **origin institute:** Delta & Pine Land Company United States. **cultivar:** DP 3776. **other id:** PVP 9300022. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564530. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Delta & Pine Land Company, United States. Received December 14, 1992.

origin: United States. **origin institute:** Delta & Pine Land Company United States. **cultivar:** DP 3733. **other id:** PVP 9300023. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564531. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Zaadunie BV, Netherlands. Received December 14, 1992.

origin: Netherlands. **origin institute:** Zaadunie BV Netherlands. **cultivar:** CHALLENGE. **other id:** PVP 9300024. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564532. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Asgrow Seed Company, Genecorp, Inc., United States. Received December 14, 1992.

origin: United States. **origin institute:** Asgrow Seed Company, Genecorp, Inc. United States. **cultivar:** SPECTOR. **other id:** PVP 9300025. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564533. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Asgrow Seed Company, Genecorp, Inc., United States.
Received December 14, 1992.

origin: United States. **origin institute:** Asgrow Seed Company, Genecorp, Inc. United States. **cultivar:** STINGER. **other id:** PVP 9300026. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564534. *Cucumis melo* L. CUCURBITACEAE Kharbuza melon

Donated by: Mohammed, S., Ali Abad Farm, United States. Received December 14, 1992.

origin: United States. **origin institute:** Ali Abad Farm United States. **cultivar:** ALIABADI. **other id:** PVP 9300029. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564535. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE Watermelon

Donated by: FreshWorld L.P., United States. Received December 14, 1992.

origin: United States. **origin institute:** FreshWorld L.P. United States. **cultivar:** JIMMY. **other id:** PVP 9300031. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564536. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE Watermelon

Donated by: FreshWorld L.P., United States. Received December 14, 1992.

origin: United States. **origin institute:** FreshWorld L.P. United States. **cultivar:** LISA. **other id:** PVP 9300032. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564537. *Trifolium repens* L. FABACEAE Ladino clover

Donated by: USDA-ARS, United States; and NC Agricultural Research Service, North Carolina, United States. Received December 14, 1992.

PI 564537-continued

origin: United States. **origin institute:** USDA-ARS
United States. **cultivar:** WILL. **other id:** PVP 9300033.
source: Pending. **group:** PVPO. **patent:** PVPO. Cultivar.
Seed.

PI 564538. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Pure-Seed Testing, Inc., United States. Received
December 14, 1992.

origin: United States. **origin institute:** Pure-Seed
Testing, Inc. United States. **cultivar:** NAVAJO. **other**
id: PVP 9300034. **source:** Pending. **group:** PVPO. **patent:**
PVPO. Cultivar. Seed.

PI 564539. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received December 14, 1992.

origin: United States. **origin institute:** Holden's
Foundation Seeds, Inc. United States. **cultivar:** LH166.
other id: PVP 9300035. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 564540. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received December 14, 1992.

origin: United States. **origin institute:** Holden's
Foundation Seeds, Inc. United States. **cultivar:** LH217.
other id: PVP 9300036. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 564541. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received December 14, 1992.

origin: United States. **origin institute:** Holden's
Foundation Seeds, Inc. United States. **cultivar:** LH200.
other id: PVP 9300037. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 564542. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received December 14, 1992.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc. United States. **cultivar:** LH184.
other id: PVP 9300038. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 564543. *Zea mays* L. subsp. *mays* POACEAE Field corn

Donated by: Holden's Foundation Seeds, Inc., United States.
Received December 14, 1992.

origin: United States. **origin institute:** Holden's Foundation Seeds, Inc. United States. **cultivar:** LH167.
other id: PVP 9300039. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 564544. *Trifolium repens* L. FABACEAE White clover

Donated by: Florida Agr. Exp. Sta., Florida, United States.
Received December 14, 1992.

origin: United States. **origin institute:** Florida Agr. Exp. Sta., Florida United States. **cultivar:** GENUINE 4 LEAF CLOVER. **other id:** PVP 9300040. **source:** Pending.
group: PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564545. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: J & S Research Company, Inc., United States. Received December 14, 1992.

origin: United States. **origin institute:** J & S Research Company, Inc. United States. **cultivar:** HS-44. **other id:** PVP 9300041. **source:** Pending. **group:** PVPO. **patent:** PVPO. Cultivar. Seed.

PI 564546. *Festuca rubra* L. POACEAE Spreading red fescue

Donated by: Mommersteeg International B.V., Netherlands. Received December 14, 1992.

origin: Netherlands. **origin institute:** Mommersteeg International B.V. Netherlands. **cultivar:** HECTOR.
other id: PVP 9300042. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 564547. *Festuca rubra* var. *commutata* Gaudin POACEAE Chewings
fescue

Donated by: Mommersteeg International B.V., Netherlands. Received
December 14, 1992.

origin: Netherlands. **origin institute:** Mommersteeg
International B.V. Netherlands. **cultivar:** MOLINDA.
other id: PVP 9300043. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 564548. *Poa trivialis* L. POACEAE Rough bluegrass

Donated by: Mommersteeg International B.V., Netherlands. Received
December 14, 1992.

origin: Netherlands. **origin institute:** Mommersteeg
International B.V. Netherlands. **cultivar:** POLDER.
other id: PVP 9300044. **source:** Pending. **group:** PVPO.
patent: PVPO. Cultivar. Seed.

PI 564549. *Helianthus* sp. ASTERACEAE Sunflower

Donated by: Seiler, G.J., Agricultural Research Service -- USDA,
Northern Crop Science Lab., Fargo, North Dakota 58105, United
States; and North Dakota Agr. Exp. Sta.. Received December 16,
1992.

origin: United States. **developed:** G.J. Seiler. **origin
institute:** Agricultural Research Service -- USDA,
Northern Crop Science Lab., P.O. Box 5677, Fargo, North
Dakota 58105 United States. **cultivar:** TUB-346.
pedigree: cms HA 89*2 (*Helianthus annuus*)/TUB-346 (*H.
tuberosus*)F3. **other id:** GP-181. **group:** CSR-SUNFLOWER.
restricted: CSR. **remarks:** Plants both single and
multiple headed. Plant height 123cm, Flowering (50%) 66
days after planting. Self-compatibility (seed set under
bags) 85%. Viable pollen staining 95%. 100 seed weight
3.5g. Test weight 330 kg/m³. Oil content 43.2%. Spring
Annual. Breeding Material. Seed.

PI 564550. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Goates, B.J., USDA-ARS, P.O. Box 307, Aberdeen, Idaho
83210, United States. Received December 08, 1992.

donor id: PI192339HF. **origin:** United States. **origin institute id:** PI192339HF. **source history:** Presumed to come from a misidentified entry in a field nursery. **remarks:** Highly resistant to dwarf bunt races found in U.S. Tested since 1972. Line was called PI 192339 until it was realized it did not correspond to actual PI 192339. Breeding Material. Seed.

PI 564551 to 564552. *Elymus lanceolatus* (Scribner & J. G. Smith) Gould
subsp. *lanceolatus* POACEAE

Donated by: Jones, T.A., USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received December 17, 1992.

PI 564551 **donor id:** Acc:360. **origin:** United States. **collected:** August 22, 1980. **collector:** K.H. Asay, K.B. Jensen. **other id:** W6 11131. **group:** W6. **locality:** 7 miles east of Fontenelle, Sweetwater County. Perennial. Wild. Seed.

PI 564552 **donor id:** Acc:520. **origin:** United States. **other id:** W6 11132. **group:** W6. Perennial. Wild. Seed.

PI 564553 to 564564. *Leymus cinereus* (Scribner & Merr.) A. Love
POACEAE

Donated by: Jones, T.A., USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received December 17, 1992.

PI 564553 **donor id:** T-2. **origin:** United States. **collected:** July 14, 1986. **collector:** T.A. Jones, D.C. Nielson, K.B. Jensen. **other id:** W6 11133. **group:** W6. **locality:** 5 miles west of highway 20 X 75, Camas County. Perennial. Wild. Seed.

PI 564554 **donor id:** T-37. **origin:** United States. **collected:** July 21, 1986. **collector:** Thomas A. Jones, Dale C. Neilson, Kevin B. Jensen. **other id:** W6 11134. **group:** W6. **locality:** Near Tuscarora, Elko County. Perennial. Wild. Seed.

PI 564555 **donor id:** Acc:331. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11135. **group:** W6. **locality:** Northeast of Lovelock. Perennial. Wild. Seed.

PI 564553 to 564564-continued

- PI 564556 **donor id:** Acc:343. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11136. **group:** W6. **locality:** 5 miles west of Arco, Butte County. Perennial. Wild. Seed.
- PI 564557 **donor id:** Acc:375. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11137. **group:** W6. **locality:** Near Benson, Cache County. Perennial. Wild. Seed.
- PI 564558 **donor id:** Acc:377. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11138. **group:** W6. **locality:** Near Benson, Cache County. Perennial. Wild. Seed.
- PI 564559 **donor id:** Acc:677. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11139. **group:** W6. **locality:** Highway 51, 1 mile northwest of Elko, Elko County. Perennial. Wild. Seed.
- PI 564560 **donor id:** Acc:679. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11140. **group:** W6. **locality:** Highway 51, 6 miles northwest of Elko, Elko County. Perennial. Wild. Seed.
- PI 564561 **donor id:** Acc:680. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11141. **group:** W6. **locality:** 8 miles northwest of Elko in side canyon off highway 51. Perennial. Wild. Seed.
- PI 564562 **donor id:** Acc:681. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11142. **group:** W6. **locality:** Road to Newmont Mine, Carlin, Elko County. Perennial. Wild. Seed.
- PI 564563 **donor id:** Acc:682. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11143. **group:** W6. **locality:** Highway 306, 5 miles north Crescent Valley, Eureka County. Perennial. Wild. Seed.
- PI 564564 **donor id:** Acc:685. **origin:** United States. **collected:** 1975. **collector:** K.H. Asay. **other id:** W6 11144. **group:** W6. **locality:** Highway 26 west of Blackfoot, Bingham County. Perennial. Wild. Seed.

PI 564565. *Leymus* hybrid POACEAE

Donated by: Jones, T.A., USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received December 17, 1992.

PI 564565-continued

donor id: T-49. **origin:** United States. **collected:** July 21, 1986. **collector:** T.A. Jones, D.C. Nielson, K.B. Jensen. **other id:** W6 11145. **group:** W6. **locality:** In the town of Eureka, Eureka County. **Perennial.** Wild. Seed.

PI 564566 to 564571. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Koenig, J., INRA, Sta. de'Amelioration des Plantes, Domaine de Crouelle, 63039 Clermont Ferrand Cedex, Paris, France. Received December 17, 1992.

PI 564566 **origin:** France. **cultivar:** BRISCARD. **other id:** MAC9192-1724. Cultivar. Seed.

PI 564567 **origin:** France. **cultivar:** GERBIER. **other id:** MAC9192-1726. Cultivar. Seed.

PI 564568 **origin:** France. **origin institute:** I.N.R.A., Paris, Ville-de-Paris France. **cultivar:** PERNEL. **pedigree:** 81.12/3/US-60/Prieur//VPM/Moisson. **other id:** MAC9192-2424. Cultivar. Seed.

PI 564569 **origin:** France. **cultivar:** RENAN. **other id:** MAC9192-4114. Cultivar. Seed.

PI 564570 **origin:** France. **origin institute:** I.N.R.A., Paris, Ville-de-Paris France. **cultivar:** RESCLER. **pedigree:** N27/Cappelle//D48/3/Mexique 50/B21//42-6. **other id:** MAC9192-4174. Cultivar. Seed.

PI 564571 **origin:** France. **origin institute:** I.N.R.A., Paris, Ville-de-Paris France. **cultivar:** TARASQUE. **pedigree:** Florence Aurore/Magdalena//Triticale 8-3 CIMMYT. **other id:** MAC9192-4438. Cultivar. Seed.

PI 564572 to 564584. *Oryza sativa* L. POACEAE Rice

Donated by: Lee, F.N., Univ. of Arkansas Rice Res. Sta., P.O. Box 351, Stuttgart, Arkansas 72106, United States. Received December 17, 1992.

PI 564572 **origin:** Philippines. **origin institute id:** IRRI 11722. **cultivar:** AHAMBA. **collector:** IRRI, Manila. **collector id:** IRRI 11722. Cultivar. Seed.

PI 564573 **origin:** Philippines. **origin institute id:** IRRI 11962. **cultivar:** PODIRATAWEE. **collector:** IRRI, Manila. Cultivar. Seed.

PI 564572 to 564584-continued

- PI 564574 **origin:** Philippines. **origin institute id:** IRRI 12379.
cultivar: ARC 10079. **collector:** IRRI, Manila. **collector id:** IRRI 12379. Breeding Material. Seed.
- PI 564575 **origin:** Philippines. **origin institute id:** IRRI 12440.
cultivar: ARC 10352. **collector:** IRRI, Manila. **collector id:** IRRI 12440. Breeding Material. Seed.
- PI 564576 **origin:** Philippines. **origin institute id:** IRRI 13391.
cultivar: SML AWINI. Cultivar. Seed.
- PI 564577 **origin:** Philippines. **origin institute id:** IRRI 14695.
cultivar: ZIRA. Cultivar. Seed.
- PI 564578 **origin:** Philippines. **origin institute id:** IRRI 14699.
cultivar: N 11061-71. Breeding Material. Seed.
- PI 564579 **origin:** Philippines. **origin institute id:** IRRI 26278.
cultivar: GOYOD. **collector:** IRRI, Manila. **collector id:** IRRI 26278. Cultivated. Seed.
- PI 564580 **origin:** Philippines. **origin institute id:** IRRI 27369.
cultivar: PARE RIRI. Cultivar. Seed.
- PI 564581 **origin:** Philippines. **origin institute id:** IRRI 27421.
cultivar: PULUT MANJETTI. Cultivar. Seed.
- PI 564582 **origin:** Philippines. **origin institute id:** IRRI 27815.
cultivar: BASMATI 213. **collector:** IRRI, Manila. Cultivated. Seed.
- PI 564583 **origin:** Philippines. **origin institute id:** IRRI 28926.
cultivar: AUS 63. **collector:** IRRI, Manila. **collector id:** IRRI 28926. Cultivar. Seed.
- PI 564584 **origin:** Philippines. **origin institute id:** IRRI 30310.
cultivar: KUEI LU AI 8. Cultivar. Seed.

PI 564585. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by: Hanna, W.W., Agricultural Research Service -- USDA, Georgia Coastal Plain Experiment Station, Tifton, Georgia 31793, United States; and Georgia Agr. Exp. Sta.. **remarks:** Tift 8677 pearl millet parental lines. Received December 18, 1992.

origin: United States. **developed:** W.W. Hanna. **origin institute:** Agricultural Research Service -- USDA, University of Georgia, Agric. Res. Sta., Coastal Plain Exp. Sta., Tifton, Georgia 31793 United States. **cultivar:** TIFT 8677. **pedigree:** Pollen shedding plant sel. from Tift 23D2A1 [cytoplasmic-nuclear male sterile (cms) pearl millet] x MN16 (2n=6x=42 pearl millet x napiergrass interspecific hybrid) cross. **other id:** PL-20. **group:** CSR-MILLET, PEARL. **restricted:** CSR. **remarks:** Semi-dwarf inbred. Maturity averages 1.6m tall. Flowers 55-60 days after planting. Restores male fertility of cytoplasmic-nuclear male steriles with the A1 cytoplasm. Produces desirable grain hybrids when used as a pollinator. Seeds brownish-gray. Spring Annual. Breeding Material. Seed.

PI 564586. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by: Hanna, W.W., Agricultural Research Service -- USDA, University of Georgia, Tifton, Georgia 31793, United States; and Georgia Agr. Exp. Sta.. **remarks:** Tift #5 S-1 Pearl Millet Germplasm. Received December 18, 1992.

origin: United States. **developed:** W.W. Hanna, J.P. Wilson, H.D. Wells, S.C. Gupta. **origin institute:** Agricultural Research Service - USDA, University of Georgia, Agric. Res. Sta., Agronomy Dept., Tifton, Georgia 31793 United States. **cultivar:** TIFT #5 S-1. **pedigree:** Bulk of equal quantities of seed from 114 accessions from ICRISAT, IBPGR, Niger, USA, Senegal, and Mali. **other id:** GP-29. **group:** CSR-MILLET, PEARL. **restricted:** CSR. **remarks:** Comprised of accessions with genes for resistance to rust, leaf spot, smut, and downy mildew. A sample of over a thousand plants from bulked population segregated for 32% and 86% rust and leaf spot resistant plants, respectively. Genes for potentially increasing forage yields and inducing cytoplasmic male sterility. Should have excellent drought tolerance genes because it is 1 of last 3 or 4 species to survive at edge of Sahara Desert. Although readily crosses with pearl millet & provides valuable genes, weedy relative with seed shattering, small seeds & small inflorescences. Breeding Material. Seed.

PI 564587. *Nicotiana tabacum* L. SOLANACEAE Burley tobacco

Donated by: Nielsen, M., University of Kentucky, Dept. of Agronomy, N212 Ag Sciences Bldg. N, Lexington, Kentucky 40546-0091, United States. Received December 18, 1992.

PI 564587-continued

origin: United States. **cultivar:** KY8959. **pedigree:** KY 8529/TN 86. **remarks:** Maturity 75 days, transplanting to flowering. Average size largest leaf 65cm long, 37cm wide. Stalk diameter (avg.) 3.37cm. Flowers pink. Flowering habit mid-dense. High resistance to black root rot (*Thielaviopsis basicola*), tobacco vein mottling virus, and wildfire (*Pseudomonas syringae* pv. *tabaci*). Medium resistance to tobacco etch virus and Fusarium wilt (*Fusarium oxysporum*). Cultivar. Seed.

PI 564588. *Triticum aestivum* L., nom. cons. POACEAE Common wheat

Donated by: Bruckner, P.L., Montana State University, Dept. of Plant Soil Science, Bozeman, Montana 59717-0312, United States. Received December 18, 1992.

origin: United States. **origin institute:** Montana Agric. Exp. Station, Bozeman, Montana United States. **origin institute id:** MT88005. **pedigree:** Wasatch//Yogo/Rescue/3/Tendoy. **remarks:** Solid-stemmed winter wheat with resistance to wheat stem sawfly (*Cephus cinctus*). Conventional height and medium maturity. Low grain yield potential, medium test weight, and moderate winterhardiness. High grain protein concentration and good milling and bread baking characteristics. Susceptible to stem rust (*Puccinia graminis*), stripe rust (*Puccinia striiformis*), and dwarf bunt (*Tilletia controversa*). Straw weak and susceptible to lodging. Winter Annual. Breeding Material. Seed.

PI 564589. *Sphaeralcea munroana* (Douglas ex Lindley) Spach ex A. Gray
MALVACEAE Munroe globemallow

Donated by: Rumbaugh, M.D., Agricultural Research Service -- USDA, Forage and Range Res. Lab., Logan, Utah 84322-6300, United States; and Utah Agr. Exp. Sta.. **remarks:** ARS-2892 Munroe Globemallow. Received December 18, 1992.

origin: United States. **developed:** M.D. Rumbaugh, B.M. Pendery. **origin institute:** Agricultural Research Service -- USDA, Forage and Range Laboratory, Utah State University, Logan, Utah 84322-6300 United States. **cultivar:** ARS-2892. **pedigree:** Seed increase originating from seed collected from naturally occurring plants. **other id:** U-2892. **other id:** RP-38. **other id:** GP-3. **group:** CSR-MISC CROP. **locality:** Hyrum Lake Dam (41 deg 37'N, 111 deg 52' E, 1325m), Cache County, Utah. **restricted:** CSR. **remarks:** Native, xerophytic, perennial, forage herb selected for amount of shoot biomass, leafiness, succulence, and excellent seed yield potential. Drought and heat tolerant. Winterhardy and survives well in semiarid environments. Tetraploid with 2N=20 chromosomes. Leaves 3- to 5- parted with denate margins and stellate trichomes. Plant height 20-50cm and the inflorescence often contain more than 25 flowers with attractive brick-red petals. Perennial. Breeding Material. Seed.

PI 564590. *Sphaeralcea coccinea* (Nutt.) Rydb. MALVACEAE Scarlet globemallow

Donated by: Rumbaugh, M.D., Agricultural Research Service -- USDA, Forage and Range Res. Lab., Logan, Utah 84322-6300, United States; and Utah Agr. Exp. Sta.. **remarks:** ARS-2936 Scarlet Globemallow. Received December 18, 1992.

origin: United States. **developed:** M.D. Rumbaugh, B.M. Pendery, H.F. Mayland, G.E. Shewmaker. **origin institute:** Agricultural Research Service -- USDA, Forage and Range Laboratory, Utah State University, Logan, Utah 84322-6300 United States. **cultivar:** ARS-2936. **pedigree:** Ecotype obtained from northern Idaho and increased in isolation after selection from among other ecotypes of *Sphaeralcea coccinea* and other *Sphaeralcea* sp. **other id:** U-2936. **other id:** RP-76. **other id:** GP-4. **group:** CSR-MISC CROP. **restricted:** CSR. **remarks:** Native, perennial. Drought tolerant, herbaceous forb. Selected for superior rhizome development, number of shoots originating from rhizomes, and palatability for sheep. Perennial. Breeding Material. Seed.

PI 564591. *Avena sativa* L. POACEAE Winter oat

Donated by: Murphy, P., North Carolina State University, 840 Method Rd., Unit 3, Box 7629, Raleigh, North Carolina 27695, United States. Received December 18, 1992.

origin: United States. **origin institute:** North Carolina AES/USDA-ARS, Raleigh, North Carolina United States. **cultivar:** YEATS. **pedigree:** Brooks/NC 74-2P. **remarks:** Winter oat adapted to Southeastern U.S. Semiprostrate juvenile growth habit. Drooping mature leaf carriage. Height and maturity medium. Panicles equilateral. Susceptible to crown rust (*Puccinia coronata*). Moderate resistance to Barley Yellow Dwarf virus. Winter Annual. Cultivar. Seed.

PI 564592. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Winter barley

Donated by: Murphy, J.P., North Carolina Agr. Res. Serv., North Carolina State University, Raleigh, North Carolina 27695-7629, United States; and Agricultural Research Service - USDA. **remarks:** Mulligan Barley. Received December 18, 1992.

origin: United States. **developed:** J.P. Murphy, R.A. Navarro, S. Leath, C.F. Murphy. **origin institute:** North Carolina Agr. Res. Serv., North Carolina State University, Dept. of Crop Science, Raleigh, North Carolina 27695-7629 United States. **cultivar:** MULLIGAN. **pedigree:** NC 63/NC 74-34, F5. **other id:** CV-238. **group:** CSR-BARLEY. **restricted:** CSR. **remarks:** Winter barley adapted to Southeastern U.S. Six-rowed, short awned, feed barley. Semiprostrate early growth habit with upright flag leaf at boot stage. Plant & maturity similar to Wysor. Susceptible to barley leaf rust (*Puccinia hordei*) and powdery mildew (*Blumeria graminis* f. sp. *hordei*). Excellent resistance to Barley Yellow Dwarf virus. Good yield potential, test weight, kernel size and winterhardiness in North Carolina. Winter Annual. Cultivar. Seed.

PI 564593. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Winter barley

Donated by: Murphy, J.P., North Carolina Agr. Res. Serv., North Carolina State University, Raleigh, North Carolina 27695-7629, United States; and Agricultural Research Service - USDA. **remarks:** Mollybloom Barley. Received December 18, 1992.

origin: United States. **developed:** J.P. Murphy, R.A. Navarro, S. Leath, C.F. Murphy. **origin institute:** North Carolina Agr. Res. Serv., North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695-7629 United States. **cultivar:** MOLLYBLOOM. **pedigree:** Boone/NC 63, F5. **other id:** CV-237. **group:** CSR-BARLEY. **restricted:** CSR. **remarks:** Winter barley adapted to Southeastern U.S. Six-rowed, short awned, feed barley. Semiprostrate early growth habit with upright flag leaf at boot stage. Maturity late. Plant height medium. Susceptible to barley leaf rust (*Puccinia hordei*) & powdery mildew (*Blumeria graminis* f. sp.). Good yield potential, test weight, kernel size and winterhardiness when evaluated in the Piedmont and Coastal Plain regions of North Carolina. Winter Annual. Cultivar. Seed.

PI 564594. *Agrostis stolonifera* var. *palustris* (Hudson) Farw. POACEAE
Creeping bentgrass

Donated by: Edminster, C.W., International Seeds, Inc., P.O. Box 168, Halsey, Oregon 97348, United States. Received December 18, 1992.

origin: United States. **cultivar:** COBRA. **pedigree:** Advanced polycross progeny testing identified following seven parents for narrow based synthetic cv: AG 314, AG 563, AG 32, AG Twin Orchard, AG 25, AG 26, AG 552. **other id:** PVP 8900086. **source:** Certificate in force. **group:** PVPO. **other id:** W6 11165. **group:** W6. **patent:** PVPO. **remarks:** Unique cool season species that exhibits a vigor stoloniferous growth habit. Medium dark green, leafy, semi-erect, fine textured. Forms an even putting surface due to its uniform semi-erect growth habit and low frequency of grain. Produces significantly less thatch. Excellent heat and cold tolerance and often retains dark green color under moderate abiotic stress. High wear tolerance and good recuperative ability due to its aggressiveness. Good resist. to dollar spot. Moderate resistance to red leaf spot. **received as:** *Agrostis palustris*. Perennial. Cultivar. Seed.

PI 564595 to 564678. *Hordeum vulgare* L. subsp. *vulgare* POACEAE Barley

Donated by: Damania, A.B., ICARDA, Genetic Resources Unit, P.O. Box 5466, Aleppo, Syria. Received December 21, 1992.

PI 564595 to 564678-continued

- PI 564595 **origin:** Bhutan. **origin institute id:** 113893. **collected:** August 29, 1981. **collector:** R. Croston, IBPGR/HMGB. **collector id:** CT-27. **other id:** MAC9192-1688. **latitude:** 27 deg. 15 min. N. **longitude:** 89 deg. 25 min. E. **elevation:** 2600m. Landrace. Seed.
- PI 564596 **origin:** Bhutan. **origin institute id:** 113901. **collected:** September 02, 1981. **collector:** R. Croston, IBPGR/HMGB. **collector id:** CT-113. **other id:** MAC9192-1690. **latitude:** 27 deg. 26 min. N. **longitude:** 89 deg. 55 min. E. **elevation:** 1250m. Landrace. Seed.
- PI 564597 **origin:** Bhutan. **origin institute id:** 113916. **collected:** September 20, 1981. **collector:** R. Croston, IBPGR/HMGB. **collector id:** CT-370. **other id:** MAC9192-1692. **latitude:** 27 deg. 20 min. N. **longitude:** 91 deg. 37 min. E. **elevation:** 1400m. Landrace. Seed.
- PI 564598 **origin:** Bhutan. **origin institute id:** 113919. **collected:** October 02, 1981. **collector:** R. Croston, IBPGR/HMGB. **collector id:** CT-462. **other id:** MAC9192-1694. **latitude:** 27 deg. 23 min. N. **longitude:** 89 deg. 37 min. E. **elevation:** 2150m. Landrace. Seed.
- PI 564599 **origin:** Egypt. **origin institute id:** 115603. **local name:** Baladi. **collected:** April 15, 1987. **collector:** B.H. Samaroo, B. Humeid ICARDA/ARCG. **collector id:** EGY-2-1. **other id:** MAC9192-3702. **locality:** Al Salam, 5 km south of Al Arish, North Sinai. **latitude:** 31 deg. 15 min. N. **longitude:** 33 deg. 50 min. E. **elevation:** 20m. Landrace. Seed.
- PI 564600 **origin:** Egypt. **origin institute id:** 115604. **local name:** Baladi. **collected:** April 15, 1987. **collector:** B.H. Samaroo, B. Humeid ICARDA/ARCG. **collector id:** EGY-3-2. **other id:** MAC9192-3704. **locality:** 8 km south of Al Arish airport, North Sinai. **latitude:** 31 deg. 9 min. N. **longitude:** 33 deg. 51 min. E. **elevation:** 20m. Landrace. Seed.
- PI 564601 **origin:** Egypt. **origin institute id:** 115624. **local name:** Baladi. **collected:** April 16, 1987. **collector:** B.H. Samaroo, B. Humeid ICARDA/ARCG. **collector id:** EGY-19-1. **other id:** MAC9192-3744. **locality:** Sheik Zwaied, 33 km from Al Arish on road to Rafah. **latitude:** 31 deg. 9 min. N. **longitude:** 34 deg. 9 min. E. **elevation:** 5m. Landrace. Seed.

PI 564595 to 564678-continued

- PI 564602 **origin:** Egypt. **origin institute id:** 115705. **local name:** Sahrawi. **collected:** June 24, 1987. **collector:** F. Bahadi, ICARDA. **collector id:** EGY-94-1. **other id:** MAC9192-3906. **locality:** Nigela, Marsa Matrouh. Landrace. Seed.
- PI 564603 **origin:** Syria. **origin institute id:** 115706. **local name:** Arabi Abiad. **collected:** June 05, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-002. **other id:** MAC9192-3908. **locality:** Al Sura Al Kubra, Sweida. **latitude:** 33 deg. 8 min. N. **longitude:** 36 deg. 31 min. E. **elevation:** 730m. Landrace. Seed.
- PI 564604 **origin:** Syria. **origin institute id:** 115707. **local name:** Arabi Abiad. **collected:** June 05, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-017. **other id:** MAC9192-3910. **locality:** Misifera, Sweida. **latitude:** 32 deg. 39 min. N. **longitude:** 36 deg. 20 min. E. **elevation:** 750m. Landrace. Seed.
- PI 564605 **origin:** Syria. **origin institute id:** 115708. **local name:** Arabi Abiad. **collected:** June 05, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-023. **other id:** MAC9192-3912. **locality:** Wdeam, Sweida. **latitude:** 32 deg. 58 min. N. **longitude:** 36 deg. 28 min. E. **elevation:** 800m. Landrace. Seed.
- PI 564606 **origin:** Syria. **origin institute id:** 115709. **local name:** Arabi Aswad. **collected:** June 05, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-028. **other id:** MAC9192-3914. **locality:** Shiaara, Dara'. **latitude:** 33 deg. 7 min. N. **longitude:** 36 deg. 20 min. E. **elevation:** 700m. Landrace. Seed.
- PI 564607 **origin:** Syria. **origin institute id:** 115710. **local name:** Arabi Abiad. **collected:** June 06, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-033. **other id:** MAC9192-3916. **locality:** 6 km south of Danun, Damascus province. **latitude:** 33 deg. 18 min. N. **longitude:** 36 deg. 11 min. E. **elevation:** 800m. Landrace. Seed.
- PI 564608 **origin:** Syria. **origin institute id:** 115713. **local name:** Arabi Aswad. **collected:** June 09, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-057. **other id:** MAC9192-3922. **locality:** Moadamieh, Damascus province. **latitude:** 33 deg. 46 min. N. **longitude:** 36 deg. 39 min. E. **elevation:** 860m. Landrace. Seed.

PI 564595 to 564678-continued

- PI 564609 **origin:** Syria. **origin institute id:** 115714. **local name:** Arabi Abiad. **collected:** June 09, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-059. **other id:** MAC9192-3924. **locality:** Adra, Damascus province. **latitude:** 33 deg. 37 min. N. **longitude:** 36 deg. 30 min. E. **elevation:** 600m. Landrace. Seed.
- PI 564610 **origin:** Syria. **origin institute id:** 115716. **local name:** Arabi Abiad. **collected:** June 10, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-071. **other id:** MAC9192-3928. **locality:** Hamrat, Dara'. **latitude:** 33 deg. 15 min. N. **longitude:** 36 deg. 14 min. E. **elevation:** 700m. Landrace. Seed.
- PI 564611 **origin:** Syria. **origin institute id:** 115717. **local name:** Arabi Abiad. **collected:** June 10, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-073. **other id:** MAC9192-3930. **locality:** Kamuneh, Dara'. **latitude:** 33 deg. 14 min. N. **longitude:** 36 deg. 14 min. E. **elevation:** 750m. Landrace. Seed.
- PI 564612 **origin:** Syria. **origin institute id:** 115718. **local name:** Arabi Aswad. **collected:** June 13, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-108. **other id:** MAC9192-3932. **locality:** Tel Aljasah, Hassake. **latitude:** 36 deg. 35 min. N. **longitude:** 40 deg. 42 min. E. **elevation:** 390m. Landrace. Seed.
- PI 564613 **origin:** Syria. **origin institute id:** 115719. **local name:** Arabi Aswad. **collected:** June 13, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-110. **other id:** MAC9192-3934. **locality:** Alony, Hassake. **latitude:** 36 deg. 38 min. N. **longitude:** 40 deg. 38 min. E. **elevation:** 410m. Landrace. Seed.
- PI 564614 **origin:** Syria. **origin institute id:** 115720. **local name:** Arabi Aswad. **collected:** June 13, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-113. **other id:** MAC9192-3936. **locality:** Tel Bedor, Hassake. **latitude:** 36 deg. 44 min. N. **longitude:** 40 deg. 34 min. E. **elevation:** 420m. Landrace. Seed.
- PI 564615 **origin:** Syria. **origin institute id:** 115721. **local name:** Arabi Aswad. **collected:** June 13, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-122. **other id:** MAC9192-3938. **locality:** Alkas, Hassake. **latitude:** 36 deg. 57 min. N. **longitude:** 40 deg. 37 min. E. **elevation:** 490m. Landrace. Seed.

PI 564595 to 564678-continued

- PI 564616 **origin:** Syria. **origin institute id:** 115722. **local name:** Arabi Aswad. **collected:** June 14, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-144. **other id:** MAC9192-3940. **locality:** Tel Bdeo, Hassake. **latitude:** 36 deg. 42 min. N. **longitude:** 40 deg. 48 min. E. **elevation:** 410m. Landrace. Seed.
- PI 564617 **origin:** Syria. **origin institute id:** 115723. **local name:** Arabi Aswad. **collected:** June 14, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-147. **other id:** MAC9192-3942. **locality:** Ghorbet Alkoss, Hassake. **latitude:** 36 deg. 47 min. N. **longitude:** 40 deg. 41 min. E. **elevation:** 430m. Landrace. Seed.
- PI 564618 **origin:** Syria. **origin institute id:** 115724. **local name:** Arabi Aswad. **collected:** June 14, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-149. **other id:** MAC9192-3944. **locality:** Asadia, Hassake. **latitude:** 36 deg. 56 min. N. **longitude:** 40 deg. 18 min. E. **elevation:** 520m. Landrace. Seed.
- PI 564619 **origin:** Syria. **origin institute id:** 115725. **local name:** Arabi Aswad. **collected:** June 16, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-170. **other id:** MAC9192-3946. **locality:** Twineh, Hassake. **latitude:** 36 deg. 31 min. N. **longitude:** 40 deg. 42 min. E. **elevation:** 400m. Landrace. Seed.
- PI 564620 **origin:** Syria. **origin institute id:** 115726. **local name:** Arabi Abiad. **collected:** June 16, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-176. **other id:** MAC9192-3948. **locality:** Salihia, Hassake. **latitude:** 36 deg. 43 min. N. **longitude:** 40 deg. 11 min. E. **elevation:** 430m. Landrace. Seed.
- PI 564621 **origin:** Syria. **origin institute id:** 115729. **local name:** Arabi Abiad. **collected:** June 25, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-257. **other id:** MAC9192-3954. **locality:** Talesis, Hama. **latitude:** 35 deg. 1 min. N. **longitude:** 36 deg. 52 min. E. **elevation:** 350m. Landrace. Seed.
- PI 564622 **origin:** Syria. **origin institute id:** 115730. **local name:** Baladi. **collected:** June 25, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-260. **other id:** MAC9192-3956. **locality:** Hoir Salib, Hama. **latitude:** 35 deg. 3 min. N. **longitude:** 36 deg. 33 min. E. **elevation:** 450m. Landrace. Seed.

- PI 564623 **origin:** Syria. **origin institute id:** 115731. **local name:** Arabi Baladi. **collected:** June 26, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-266. **other id:** MAC9192-3958. **locality:** Zghrin, Hama. **latitude:** 35 deg. 6 min. N. **longitude:** 37 deg. 1 min. E. **elevation:** 500m. Landrace. Seed.
- PI 564624 **origin:** Syria. **origin institute id:** 115732. **local name:** Halabi. **collected:** June 26, 1987. **collector:** A. Elings, K. Obari ICARDA/ARCD. **collector id:** ID-267. **other id:** MAC9192-3960. **locality:** Zaagha, Hama. **latitude:** 35 deg. 23 min. N. **longitude:** 36 deg. 57 min. E. **elevation:** 430m. Landrace. Seed.
- PI 564625 **origin:** Pakistan. **origin institute id:** 115743. **local name:** Jawo. **collected:** June 15, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1213-3. **other id:** MAC9192-3982. **locality:** Doni, 5 km southeast of Sariab. **latitude:** 30 deg. 49 min. N. **longitude:** 66 deg. 28 min. E. **elevation:** 1500m. Landrace. Seed.
- PI 564626 **origin:** Pakistan. **origin institute id:** 115744. **local name:** Jawo. **collected:** June 17, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1225-3. **other id:** MAC9192-3984. **locality:** Baleli, 13 km north of Quetta. **latitude:** 30 deg. 18 min. N. **longitude:** 66 deg. 54 min. E. **elevation:** 1400m. Landrace. Seed.
- PI 564627 **origin:** Pakistan. **origin institute id:** 115747. **local name:** Urbush. **collected:** June 17, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1230-2. **other id:** MAC9192-3990. **locality:** Malang Abad, 1 km north of Pishin. **latitude:** 30 deg. 33 min. N. **longitude:** 66 deg. 42 min. E. **elevation:** 1380m. Landrace. Seed.
- PI 564628 **origin:** Pakistan. **origin institute id:** 115748. **local name:** Urbush. **collected:** June 17, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1232. **other id:** MAC9192-3992. **locality:** Gandi, 20 km northeast of Pishin. **latitude:** 30 deg. 32 min. N. **longitude:** 67 deg. 2 min. E. **elevation:** 1600m. Landrace. Seed.

- PI 564629 **origin:** Pakistan. **origin institute id:** 115749. **local name:** Jawo. **collected:** June 19, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1240-2. **other id:** MAC9192-3994. **locality:** Kiri Door, 35 km southeast of Quetta. **latitude:** 29 deg. 59 min. N. **longitude:** 67 deg. 0 min. E. **elevation:** 1580m. Landrace. Seed.
- PI 564630 **origin:** Pakistan. **origin institute id:** 115750. **local name:** Urbush. **collected:** June 19, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1242-3. **other id:** MAC9192-3996. **locality:** Kali Khali, 15 km southwest of Quetta. **latitude:** 30 deg. 15 min. N. **longitude:** 66 deg. 40 min. E. **elevation:** 1540m. Landrace. Seed.
- PI 564631 **origin:** Pakistan. **origin institute id:** 115751. **local name:** Urbush. **collected:** June 21, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1243-1. **other id:** MAC9192-3998. **locality:** Ghant Dori, 5 km west of Lak Post. **latitude:** 29 deg. 58 min. N. **longitude:** 66 deg. 40 min. E. **elevation:** 1580m. Landrace. Seed.
- PI 564632 **origin:** Pakistan. **origin institute id:** 115752. **local name:** Jawo. **collected:** June 21, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1246-2. **other id:** MAC9192-4000. **locality:** Karez Shah Nawaz, 60 km south of Noshki. **latitude:** 29 deg. 40 min. N. **longitude:** 66 deg. 25 min. E. **elevation:** 1400m. Landrace. Seed.
- PI 564633 **origin:** Pakistan. **origin institute id:** 115753. **local name:** Urbush. **collected:** June 22, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1248-5. **other id:** MAC9192-4002. **locality:** Nastung, 50 km south of Quetta. **latitude:** 29 deg. 53 min. N. **longitude:** 66 deg. 50 min. E. **elevation:** 1500m. Landrace. Seed.
- PI 564634 **origin:** Pakistan. **origin institute id:** 115754. **local name:** Urbush. **collected:** June 22, 1986. **collector:** B. Humeid, R. Anwar, S. Battih ICARDA/PARC. **collector id:** 1250-3. **other id:** MAC9192-4004. **locality:** Mangnchar, 40 km north of Kalat. **latitude:** 29 deg. 21 min. N. **longitude:** 66 deg. 35 min. E. **elevation:** 1560m. Landrace. Seed.

PI 564595 to 564678-continued

- PI 564635 **origin:** Syria. **origin institute id:** 115841. **local name:** Jneeder. **collected:** June 10, 1988. **collector:** A. Elings, M. Hamran, W. Reda ICARDA/ARCD. **collector id:** ID-320. **other id:** MAC9192-4176. **locality:** 21 km southeast of Sajaneh, Palmyra. **latitude:** 34 deg. 47 min. N. **longitude:** 39 deg. 0 min. E. **elevation:** 530m. Landrace. Seed.
- PI 564636 **origin:** Syria. **origin institute id:** 115844. **local name:** Dabuz. **collected:** June 21, 1988. **collector:** A. Elings, M. Hamran, W. Reda ICARDA/ARCD. **collector id:** ID-398. **other id:** MAC9192-4182. **locality:** Jeb Ahmar, Hama. **latitude:** 35 deg. 5 min. N. **longitude:** 36 deg. 16 min. E. **elevation:** 1000m. Landrace. Seed.
- PI 564637 **origin:** Syria. **origin institute id:** 115845. **local name:** Dabuz. **collected:** June 21, 1988. **collector:** A. Elings, M. Hamran, W. Reda ICARDA/ARCD. **collector id:** ID-403. **other id:** MAC9192-4184. **locality:** Jeb Al Ghab, Hama. **latitude:** 35 deg. 3 min. N. **longitude:** 36 deg. 14 min. E. **elevation:** 700m. Landrace. Seed.
- PI 564638 **origin:** Syria. **origin institute id:** 115891. **local name:** Arabi Aswad. **collected:** June 10, 1988. **collector:** A. Elings, M. Hamran, W. Reda ICARDA/ARCD. **collector id:** ID-321. **other id:** MAC9192-4276. **locality:** 21 km southeast of Sajaneh, Palmyra. **latitude:** 34 deg. 47 min. N. **longitude:** 39 deg. 0 min. E. **elevation:** 530m. Landrace. Seed.
- PI 564639 **origin:** Syria. **origin institute id:** 115892. **local name:** Arabi Abiad. **collected:** June 10, 1988. **collector:** A. Elings, M. Hamran, W. Reda ICARDA/ARCD. **collector id:** ID-327. **other id:** MAC9192-4278. **locality:** 30 km southeast of Sajaneh. **latitude:** 34 deg. 43 min. N. **longitude:** 39 deg. 3 min. E. Landrace. Seed.
- PI 564640 **origin:** Syria. **origin institute id:** 115893. **local name:** Arabi Abiad. **collected:** June 11, 1988. **collector:** A. Elings, M. Hamran, W. Reda ICARDA/ARCD. **collector id:** ID-334. **other id:** MAC9192-4280. **locality:** Ayen Al Kadra, Homs. **latitude:** 34 deg. 39 min. N. **longitude:** 36 deg. 53 min. E. **elevation:** 720m. Landrace. Seed.
- PI 564641 **origin:** Syria. **origin institute id:** 115894. **local name:** Arabi Abiad. **collected:** June 11, 1988. **collector:** A. Elings, M. Hamran, W. Reda ICARDA/ARCD. **collector id:** ID-337. **other id:** MAC9192-4282. **locality:** Al Zogem, Homs. **latitude:** 34 deg. 32 min. N. **longitude:** 37 deg. 8 min. E. **elevation:** 730m. Landrace. Seed.

- PI 564642 **origin:** Syria. **origin institute id:** 115895. **local name:** Arabi Abiad. **collected:** June 12, 1988. **collector:** A. Elings, M. Hamran, W. Reda ICARDA/ARCD. **collector id:** ID-344. **other id:** MAC9192-4284. **locality:** Sha'ieraat, Homs. **latitude:** 34 deg. 29 min. N. **longitude:** 37 deg. 0 min. E. **elevation:** 800m. Landrace. Seed.
- PI 564643 **origin:** Syria. **origin institute id:** 115896. **local name:** Baladi Abiad. **collected:** June 12, 1988. **collector:** A. Elings, M. Hamran, W. Reda ICARDA/ARCD. **collector id:** ID-352. **other id:** MAC9192-4286. **locality:** Rhouda, 10 km east of Quariateen, Homs. **latitude:** 34 deg. 14 min. N. **longitude:** 37 deg. 20 min. E. **elevation:** 700m. Landrace. Seed.
- PI 564644 **origin:** Syria. **origin institute id:** 115934. **local name:** Arabi Aswad. **collected:** July 09, 1988. **collector:** L. Holly, R.P.S. Pundir ICARDA/ICRISAT. **collector id:** LR-107. **other id:** MAC9192-4362. **locality:** Zreh. **elevation:** 410m. Landrace. Seed.
- PI 564645 **origin:** Syria. **origin institute id:** 115935. **local name:** Baladi. **collected:** July 14, 1988. **collector:** L. Holly, R.P.S. Pundir ICARDA/ICRISAT. **collector id:** LR-139. **other id:** MAC9192-4364. **locality:** Zabadani, Damascus province. **elevation:** 1600m. Landrace. Seed.
- PI 564646 **origin:** Oman. **origin institute id:** 115955. **local name:** Shayir. **collected:** April 15, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7002. **other id:** MAC9192-4392. **locality:** 12 km northwest of Sohar, North Batinah. **latitude:** 24 deg. 30 min. N. **longitude:** 56 deg. 40 min. E. Landrace. Seed.
- PI 564647 **origin:** Oman. **origin institute id:** 115956. **local name:** Shayir. **collected:** April 15, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7006. **other id:** MAC9192-4394. **locality:** Majis, North Batinah. **latitude:** 24 deg. 30 min. N. **longitude:** 56 deg. 40 min. E. Landrace. Seed.
- PI 564648 **origin:** Oman. **origin institute id:** 115957. **local name:** Shayir. **collected:** April 18, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7012. **other id:** MAC9192-4396. **locality:** 25 km west of Rustag, Western Hajar. **latitude:** 23 deg. 30 min. N. **longitude:** 57 deg. 10 min. E. **elevation:** 450m. Landrace. Seed.

PI 564595 to 564678-continued

- PI 564649 **origin:** Oman. **origin institute id:** 115959. **local name:** Shayir. **collected:** April 18, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7022. **other id:** MAC9192-4398. **locality:** 2 km northeast of Al Hamra, Interior province. **latitude:** 23 deg. 10 min. N. **longitude:** 57 deg. 20 min. E. **elevation:** 500m. Landrace. Seed.
- PI 564650 **origin:** China. **origin institute id:** 115970. **local name:** Zao Yang da mai. **collector:** CAAS. **collector id:** 079. **other id:** MAC9192-4414. Landrace. Seed.
- PI 564651 **origin:** China. **origin institute id:** 115972. **local name:** Zhi jiang hong da mai. **collector:** CAAS. **collector id:** 083. **other id:** MAC9192-4416. Landrace. Seed.
- PI 564652 **origin:** China. **origin institute id:** 115973. **local name:** Xiao shan ai jiao er leng. **collector:** CAAS. **collector id:** 069. **other id:** MAC9192-4418. Landrace. Seed.
- PI 564653 **origin:** China. **origin institute id:** 115974. **collector:** CAAS. **collector id:** 053. **other id:** MAC9192-4420. Landrace. Seed.
- PI 564654 **origin:** China. **origin institute id:** 115976. **collector:** CAAS. **collector id:** 033. **other id:** MAC9192-4424. Landrace. Seed.
- PI 564655 **origin:** China. **origin institute id:** 115978. **local name:** Hei liu 2 hu. **collector:** CAAS. **collector id:** 028. **other id:** MAC9192-4428. Landrace. Seed.
- PI 564656 **origin:** China. **origin institute id:** 115979. **local name:** Dong yang san yue huang. **collector:** CAAS. **collector id:** 014. **other id:** MAC9192-4430. Landrace. Seed.
- PI 564657 **origin:** China. **origin institute id:** 115980. **local name:** Li xin 1 hao. **collector:** CAAS. **collector id:** 039. **other id:** MAC9192-4432. Landrace. Seed.
- PI 564658 **origin:** China. **origin institute id:** 115983. **local name:** Fu ning shi da mai. **collector:** CAAS. **collector id:** 020. **other id:** MAC9192-4434. Landrace. Seed.
- PI 564659 **origin:** China. **origin institute id:** 115986. **local name:** San yue huang da mai. **collector:** CAAS. **collector id:** 052. **other id:** MAC9192-4436. Landrace. Seed.
- PI 564660 **origin:** China. **origin institute id:** 115988. **local name:** Hu mai 4 hao. **collector:** CAAS. **collector id:** 031. **other id:** MAC9192-4440. Landrace. Seed.

PI 564595 to 564678-continued

- PI 564661 **origin:** Oman. **origin institute id:** 116085. **local name:** Shayir. **collected:** April 21, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7038. **other id:** MAC9192-4620. **locality:** 12 km from Al Hamra, Interior province. **latitude:** 23 deg. 10 min. N. **longitude:** 57 deg. 20 min. E. **elevation:** 500m. Landrace. Seed.
- PI 564662 **origin:** Oman. **origin institute id:** 116088. **local name:** Shayir. **collected:** April 22, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7055. **other id:** MAC9192-4624. **locality:** 8 km north of al Ayshi, Interior province. **latitude:** 23 deg. 10 min. N. **longitude:** 57 deg. 10 min. E. **elevation:** 500m. Landrace. Seed.
- PI 564663 **origin:** Oman. **origin institute id:** 116089. **local name:** Shayir. **collected:** April 22, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7059. **other id:** MAC9192-4626. **locality:** 10 km northeast of Al Ayshi, Interior province. **latitude:** 23 deg. 10 min. N. **longitude:** 57 deg. 10 min. E. **elevation:** 500m. Landrace. Seed.
- PI 564664 **origin:** Oman. **origin institute id:** 116091. **local name:** Shayir. **collected:** April 25, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7075. **other id:** MAC9192-4628. **locality:** 15 km northeast of Ibri, Dhahirah. **latitude:** 23 deg. 20 min. N. **longitude:** 56 deg. 40 min. E. **elevation:** 300m. Landrace. Seed.
- PI 564665 **origin:** Oman. **origin institute id:** 116094. **local name:** Shayir. **collected:** April 25, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7085. **other id:** MAC9192-4630. **locality:** 30 km northeast of Ibri, Dhahirah. **latitude:** 23 deg. 30 min. N. **longitude:** 56 deg. 40 min. E. **elevation:** 400m. Landrace. Seed.
- PI 564666 **origin:** Oman. **origin institute id:** 116095. **local name:** Shayir. **collected:** April 26, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7089. **other id:** MAC9192-4632. **locality:** Yankul, Dhahirah. **latitude:** 23 deg. 40 min. N. **longitude:** 56 deg. 30 min. E. **elevation:** 500m. Landrace. Seed.
- PI 564667 **origin:** Oman. **origin institute id:** 116105. **local name:** Shayir. **collected:** June 20, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7351. **other id:** MAC9192-4634. **locality:** 25 km west of Rustag, Western Hajar. **latitude:** 23 deg. 20 min. N. **longitude:** 57 deg. 20 min. E. **elevation:** 650m. Landrace. Seed.

PI 564595 to 564678-continued

- PI 564668 **origin:** Oman. **origin institute id:** 116107. **local name:** Shayir. **collected:** June 22, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7381. **other id:** MAC9192-4636. **locality:** 35 km south of Jabrin, Interior province. **latitude:** 22 deg. 40 min. N. **longitude:** 57 deg. 20 min. E. **elevation:** 400m. Landrace. Seed.
- PI 564669 **origin:** Oman. **origin institute id:** 116108. **local name:** Shayir. **collected:** June 23, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7398. **other id:** MAC9192-4638. **locality:** 3 km southwest of Bahla, Interior province. **latitude:** 23 deg. 0 min. N. **longitude:** 57 deg. 20 min. E. **elevation:** 500m. Landrace. Seed.
- PI 564670 **origin:** Oman. **origin institute id:** 116110. **local name:** Shayir. **collected:** June 28, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7421. **other id:** MAC9192-4642. **locality:** 20 km north of Birkat al Mauz, Jebel Akhdar. **latitude:** 23 deg. 10 min. N. **longitude:** 57 deg. 40 min. E. **elevation:** 1800m. Landrace. Seed.
- PI 564671 **origin:** Oman. **origin institute id:** 116111. **local name:** Shayir. **collected:** June 28, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7425. **other id:** MAC9192-4644. **locality:** 20 km north of Birkat al Mauz, Jebel Akhdar. **latitude:** 23 deg. 10 min. N. **longitude:** 57 deg. 40 min. E. **elevation:** 1800m. Landrace. Seed.
- PI 564672 **origin:** Oman. **origin institute id:** 116121. **local name:** Shayir. **collected:** July 14, 1987. **collector:** L. Guarino, IBPGR, Rome. **collector id:** 7506. **other id:** MAC9192-4646. **locality:** 50 km southwest of Sohar, Western Hajar. **latitude:** 24 deg. 0 min. N. **longitude:** 56 deg. 30 min. E. **elevation:** 400m. Landrace. Seed.
- PI 564673 **origin:** Syria. **origin institute id:** 116223. **local name:** Arabi Aswad. **collected:** July 19, 1989. **collector:** L. Holly, B. Humeid, S. Miyagawa, M. Labdi ICARDA/ARCD. **collector id:** KYMA-6. **other id:** MAC9192-4804. **locality:** Hamaan/Mansoura, 25 km before Raqqa. **elevation:** 530m. Landrace. Seed.
- PI 564674 **origin:** Syria. **origin institute id:** 116224. **local name:** Arabi Aswad. **collected:** July 20, 1989. **collector:** L. Holly, B. Humeid, S. Miyagawa, M. Labdi ICARDA/ARCD. **collector id:** KYMA-8. **other id:** MAC9192-4806. **locality:** Bor Saeed, 25 km north of Hasaka. **elevation:** 475m. Landrace. Seed.

PI 564595 to 564678-continued

PI 564675 **origin:** Syria. **origin institute id:** 116225. **local name:** Arabi Aswad. **collected:** July 20, 1989. **collector:** L. Holly, B. Humeid, S. Miyagawa, M. Labdi ICARDA/ARCD. **collector id:** KYMA-12. **other id:** MAC9192-4808. **locality:** Sanjak Sa'adoon, 60 km north of Hasaka. **elevation:** 550m. Landrace. Seed.

PI 564676 **origin:** Syria. **origin institute id:** 116227. **local name:** Arabi Aswad. **collected:** July 21, 1989. **collector:** L. Holly, B. Humeid, S. Miyagawa, M. Labdi ICARDA/ARCD. **collector id:** KYMA-23. **other id:** MAC9192-4812. **locality:** Om Dowail, 11 km after Kamishly to Hasaka. **elevation:** 500m. Landrace. Seed.

PI 564677 **origin:** Syria. **origin institute id:** 116229. **local name:** Arabi Aswad. **collected:** July 22, 1989. **collector:** L. Holly, B. Humeid, S. Miyagawa, M. Labdi ICARDA/ARCD. **collector id:** KYMA-32. **other id:** MAC9192-4816. **locality:** Masrab, 25 km west of Deir El-Zor. **elevation:** 350m. Landrace. Seed.

PI 564678 **origin:** Syria. **origin institute id:** 116230. **local name:** Arabi Abiad. **collected:** July 22, 1989. **collector:** L. Holly, B. Humeid, S. Miyagawa, M. Labdi ICARDA/ARCD. **collector id:** KYMA-36. **other id:** MAC9192-4818. **locality:** Zour Shanmar, Raqqa. **elevation:** 300m. Landrace. Seed.

PI 564679 to 564681. *Gossypium hirsutum* L. MALVACEAE Upland cotton

Donated by: Bourland, F.M., Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701, United States; and Mississippi Agr. and Forestry Exp. Sta.. **remarks:** Miscot 8001, 8004, and 8006 Germplasm Lines of Cotton. Received December 22, 1992.

- PI 564679 **origin:** United States. **developed:** F.M. Bourland, C.E. Ortiz, B.W. White. **origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Dept. of Agronomy, Fayetteville, Arkansas 72701 United States. **cultivar:** MISCOT 8001. **pedigree:** McNair 235/Tamcot CAMD-E. **other id:** GP-590. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Selected for secondary root development in the presence of trifluralin (a dinitroaniline herbicide which will prune secondary roots in treated soil) and for agronomic performance in Mississippi River delta regions of Arkansas and Mississippi. Similar to McNair 235 in number of secondary roots, all morphological traits, and plant height. Earlier maturing than McNair 235 but later than Tamcot CAMD-E. Generally adapted to the mid-south region but tends to produce relatively short fibers. Facultative Annual. Breeding Material. Seed.
- PI 564680 **origin:** United States. **developed:** F.M. Bourland, C.E. Ortiz, B.W. White. **origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Dept. of Agronomy, Fayetteville, Arkansas 72701 United States. **cultivar:** MISCOT 8004. **pedigree:** McNair 235/PD 875. **other id:** GP-591. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Selected for secondary root development in the presence of trifluralin (a dinitroaniline herbicide which will prune secondary roots in treated soil) and for agronomic performance in Mississippi River delta regions of Arkansas and Mississippi. Similar to McNair 235 in number of secondary roots, all morphological traits, and plant height. Earlier maturing than McNair 235. Generally adapted to the mid-south region but tends to produce relatively short fibers. Facultative Annual. Breeding Material. Seed.
- PI 564681 **origin:** United States. **developed:** F.M. Bourland, C.E. Ortiz, B.W. White. **origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Dept. of Agronomy, Fayetteville, Arkansas 72701 United States. **cultivar:** MISCOT 8006. **pedigree:** McNair 235/Stoneville 603. **other id:** GP-592. **group:** CSR-COTTON. **restricted:** CSR. **remarks:** Selected for secondary root development in the presence of trifluralin (a dinitroaniline herbicide which will prune secondary roots in treated soil) and for agronomic performance in Mississippi River delta regions of Arkansas and Mississippi. Similar to McNair 235 in number of secondary roots, all morphological traits, plant height and maturity. Generally adapted to the mid-south region but tends to produce relatively short fibers. Facultative Annual. Breeding Material. Seed.

PI 564682. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Hallauer, A.R., Iowa State University, Dept. of Agronomy, Ames, Iowa 50011, United States; and Agricultural Research Service -- USDA. Received December 30, 1992.

origin: United States. **cultivar:** B97. **pedigree:** Iowa Corn Borer Synthetic No. 1 [BSCB1(R)C9]-2. **remarks:** Developed from population of Iowa Corn Borer Syn. No. 1 (BSCB1) after nine cycles of reciprocal recurrent selection [BSCB1(R)C9-2]. Tall, vigorous line with above average resistance to first- and second-generation European corn borer (*Ostrinia nubilalis*) infestation, excellent stalk and root strength, and above average stay green after physiological maturity of grain. Ears have 14 rows of large, yellow dent kernels on intermediate length ears with red cobs. Tassels good pollen producers. Maturity classification is AES700. Spring Annual. Cultivated. Seed.

PI 564683. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Hallauer, A.R., Iowa State University, Dept. of Agronomy, Ames, Iowa 50011, United States; and Agricultural Research Service -- USDA. Received December 30, 1992.

origin: United States. **cultivar:** B98. **pedigree:** Pioneer Two-ear Composite [BS11(FR)C5]-2803. **remarks:** Developed from population of BS11 after five cycles of reciprocal full-sib selection [BS11(FR)C5-2803]. Tall plant type with dark green, narrow, upright leaf orientation. Above average resistance to diseases and first- and second-generation European corn borer (*Ostrinia nubilalis*) infestation. Yellow, flinty kernels are produced on ears with red cobs and 14 to 16 kernel rows. Maturity classification is AES800. Spring Annual. Cultivated. Seed.

PI 564684. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Hallauer, A.R., Iowa State University, Dept. of Agronomy, Ames, Iowa 50011, United States; and Agricultural Research Service -- USDA. Received December 30, 1992.

origin: United States. **cultivar:** BS28. **pedigree:** Developed after five cycles of mass selection in a composite of Tuxpeno strains for adaptation to temperate areas. **remarks:** Developed by mass selection for adaptation to temperate areas from a composite of Tuxpeno selections. Intermediate height plant type with dent kernel types and colors ranging from lemon white to dark yellow. Central U.S. Corn Belt maturity (AES700 maturity classification) and includes germplasm that exhibits good general combining ability in the tropics. Spring Annual. Cultivated. Seed.

PI 564685. *Zea mays* L. subsp. *mays* POACEAE Corn

Donated by: Hallauer, A.R., Iowa State University, Dept. of Agronomy, Ames, Iowa 50011, United States; and Agricultural Research Service -- USDA. Received December 30, 1992.

origin: United States. **cultivar:** BS29. **pedigree:** Developed from Suwan 1 by five cycles of mass selection for adaptation to temperate areas. **remarks:** Developed by mass selection for adaptation to temperate areas from Suwan 1, a population developed at Kasetsart University, Bangkok, Thailand. Vigorous plant type of intermediate height and produces girthy ears with light to dark yellow, flinty kernels. AES700 relative maturity. Good resistance to sorghum downy mildew (*Sclerospora sorghi*) and good general combining ability in the tropics. Spring Annual. Cultivated. Seed.

Scientific Name Cross Reference

Aegilops biuncialis	564173-564178	Carthamus tinctorius	561194, 561703, 562638-562639
Aegilops columnaris	564179-564182	Catharanthus roseus	564078-564081
Aegilops geniculata	564183-564193	Chloris virgata	561124-561125
Aegilops markgrafii	564194-564198	Cicer anatolicum	561078
Aegilops neglecta	564199-564218	Cicer arietinum	561079-561083, 561100-561102, 562032
Aegilops triuncialis	564219-564233	Cicer oxyodon	561084, 561103
Aegilops umbellulata	564234-564235	Citrullus lanatus	561122, 561138, 564535-564536
Agrostis stolonifera	564084	Crotalaria juncea	561720
Agrostis stolonifera var. palustris	562385, 564594	Cucumis melo	564076, 564534
Allium cepa	561940	Cucumis metuliferus	561915
Apium graveolens	564074	Cucumis sativus	561144-561148
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Beta procumbens	564062-564063	Cuphea laminuligera	561482-561484
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Acronyms

For space conservation and consistency in identifying locations, the following acronyms have been used in Plant Inventory 201:

CIANO	- Centro de Investigaciones Agricolas del Noroeste (Mexico)
CIP	- Centro Internacional de la Papa (Peru)
CSIRO	- Commonwealth Scientific and Industrial Research Organization (Australia)
EMBRAPA-	- Empresa Brasileira de Pesquisas Agropecuarias (Brazil)
FAO	- Food and Agriculture Organization of the United Nations
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
IITA	- International Institute of Tropical Agriculture
INIFAP	- Instituto Nacional de Investigaciones Forestales y Agropecuarias (Mexico)
NBPGR	- National Bureau of Plant Genetics Resources (India)
PGQO	- Plant Germplasm Quarantine Office (USA)
SADCC	- Southern African Development Coordination Conference (Zimbabwe)
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)