



United States
Department of
Agriculture

Agricultural
Research
Service

Plant Inventory No. 196, Part I

Plant Materials Introduced
January 1 to June 30, 1987
(Nos. 506219 to 510763)

CURRENT SEED RECORDS
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Plant Inventory No. 196 is divided into two parts that encompass PI's 506219 - 514275 for calendar year 1987. Questions about data organization and proper plant identification should be directed to the author. This is not a listing of plant material for distribution.

Thanks are expressed to the following persons associated with the Plant Introduction Office for their contribution to Plant Inventory No. 196: L.G. Garner and R.A. Norris for continued excellence in handling all aspects of the computer system operation. Assistance by members of the Germplasm Resources Information Network (GRIN) with software and hardware problems is appreciated.

This inventory with a new frontpiece is the first to be generated for a full year through the GRIN system.

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Issued July 1988

PI 506219 to 506230. *Oryza sativa* L. POACEAE Rice

Donated by: Rutger, J.N., USDA-ARS, Department of Agronomy and Range Science, University of California, Davis, California, United States.
remarks: Cooperative germplasm releases by the USDA-ARS, the California Co-operative Rice Research Foundation, Inc., and the California Agricultural Experiment Station. Received January 16, 1987.

PI 506219 **donor id:** Early S-201. **origin:** United States. **pedigree:** Selection from M2 generation of irradiated S-201. **other id:** GP-54. **remarks:** Induced mutant, similar to its semidwarf parent but 7 days earlier maturing. Potentially useful as an early maturing source for rice breeding programs. Grain somewhat intermediate between typical short and medium types. Breeding Material. Seed.

PI 506220 **donor id:** Very Early M9. **origin:** United States. **pedigree:** Selection from cultivar M9. **other id:** GP-64. **group:** CSR-RICE. **remarks:** Spontaneous mutant, similar to semidwarf parent M9 except 7 days earlier maturing. Potentially useful as an early maturity source for rice breeding programs. Breeding Material. Seed.

PI 506221 **donor id:** Light green panicle M-101. **origin:** United States. **pedigree:** Selection from M3 generation of irradiated cultivar M-101. **other id:** GP-55. **group:** CSR-RICE. **remarks:** Induced mutant, similar to semidwarf parent M-101 except for light green panicle and leaf color. Light green panicle color especially noticeable for about two weeks beginning at heading. Potentially useful as a marker gene (lgp) for cultivar identification. Breeding Material. Seed.

PI 506222 **donor id:** Yellow Panicle ESD7-3. **origin:** United States. **pedigree:** Selection from M3 generation of irradiated selection ESD7-3. **other id:** GP-56. **group:** CSR-RICE. **remarks:** Induced mutant with yellow-green panicle color. Potentially useful as a marker gene (yp) for cultivar identification. Breeding Material. Seed.

PI 506223 **donor id:** Waxy M-101. **origin:** United States. **pedigree:** Selection from M2 generation of irradiated cultivar M-101. **other id:** GP-57. **remarks:** Induced mutant similar to semidwarf parent M-101 except for waxy endosperm. Useful as a marker gene source (recessive wx for near-zero amylose content) for outcrossing and hybrid rice research. Breeding Material. Seed.

PI 506219 to 506230-continued

- PI 506224 **donor id:** Goldhull M-101. **origin:** United States. **pedigree:** Selection from M3 generation of irradiated cultivar M-101. **other id:** GP-58. **group:** CSR-RICE. **remarks:** Induced mutant, similar to semidwarf parent M-101 except for goldhull color and lower yield. Potentially useful as a marker gene source (gh) for cultivar identification. Breeding Material. Seed.
- PI 506225 **donor id:** 78Y81. **origin:** United States. **pedigree:** Selection from M2 generation of irradiated C111032. **other id:** GP-60. **group:** CSR-RICE. **remarks:** Induced mutant of short stature. Potentially useful as short stature parent for breeding long grain types for areas with moderately cool climate. Breeding Material. Seed.
- PI 506226 **donor id:** 78Y454. **origin:** United States. **pedigree:** Selection from M2 generation of irradiated C111032. **other id:** GP-61. **group:** CSR-RICE. **remarks:** Induced mutant of short stature. Potentially useful as short stature parent for breeding long grain types for areas with moderately cool climate. Breeding Material. Seed.
- PI 506227 **donor id:** 78Y455. **origin:** United States. **pedigree:** Selection from M2 generation of irradiated C111032. **other id:** GP-62. **group:** CSR-RICE. **remarks:** Induced mutant of short stature. Potentially useful as short stature parent for breeding long grain types for areas with moderately cool climate. Breeding Material. Seed.
- PI 506228 **donor id:** 78Y458. **origin:** United States. **pedigree:** Selection from M2 generation of irradiated C111032. **other id:** GP-63. **group:** CSR-RICE. **remarks:** Induced mutant of short stature. Potentially useful as short stature parent for breeding long grain types for areas with moderately cool climate. Breeding Material. Seed.
- PI 506229 **donor id:** D16. **origin:** United States. **pedigree:** F3 selection from M-101/0. rufipogon (A100912). **other id:** GP-59. **group:** CSR-RICE. **remarks:** Plant prostrate, photoperiodic. Seeds shatter. Pericarp red. Useful as a stem rot resistant parent in breeding programs. **disease resistance:** Resistant to stem rot (*Sclerotium oryzae*). Breeding Material. Seed.
- PI 506230 **donor id:** B85P2385. **origin:** United States. **pedigree:** Selection from WC1403/74-Y-42//M7/S6. **other id:** GP-65. **group:** CSR-RICE. **remarks:** Potentially useful as a water weevil tolerant donor in breeding programs. **disease resistance:** Tolerant to rice water weevil (*Lissorhoptrus oryophilus*). Breeding Material. Seed.

PI 506231. *Aegilops cylindrica* Host POACEAE Jointed goatgrass

Donated by: Wesenberg, D.M., USDA-ARS, Aberdeen Research and Extension Center, P.O. Box AA, Aberdeen, Idaho, United States.
Received January 09, 1987.

origin: United States. **collected:** July 07, 1986.
collector: D.M. Wesenberg. **locality:** Lemont Miles farm about 4.9-6.6km NW of Treasureton, Idaho. **latitude:** 42 deg. 16 min. N. **longitude:** 111 deg. 53 min. W. **Wild.**
Seed.

PI 506232 to 506236. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Dalmacio, S., Institute of Plant Breeding, University of the Philippines, Los Banos College, Laguna 3720, Philippines.
remarks: Received through R.R. Duncan, University of Georgia and J. Maranville, University of Nebraska. Received January 20, 1987.

PI 506232 **donor id:** Cosor 3. **origin:** Philippines. **remarks:** Acid soil tolerant. Photoperiod sensitive. **Breeding Material.**
Seed.

PI 506233 **donor id:** Cosor 5. **origin:** Philippines. **remarks:** Acid soil tolerant. Photoperiod sensitive. **Breeding Material.**
Seed.

PI 506234 **donor id:** CS 160. **origin:** Philippines. **remarks:** Acid soil tolerant. Photoperiod sensitive. **Breeding Material.**
Seed.

PI 506235 **donor id:** CS 402. **origin:** Philippines. **remarks:** Acid soil tolerant. Photoperiod sensitive. **Breeding Material.**
Seed.

PI 506236 **origin:** Philippines. **pedigree:** 67A/CS174,F2 Seg.
remarks: Acid soil tolerant. Photoperiod sensitive.
Breeding Material. Seed.

PI 506237. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Simpson, C.E., Texas Agricultural Experiment Station, Texas A & M University, Stephenville, Texas, United States.
remarks: Cultivar developed by C.E. Simpson, O.D. Smith, and D.H. Smith, Texas Agricultural Experiment Station, Stephenville, College Station, and Yoakum respectively. Received January 15, 1987.

PI 506237-continued

donor id: TP-107-3-8. **origin:** United States. **cultivar:** Langley. **pedigree:** Florunner/PI 109839. **other id:** CV-31. **group:** CSR-PEANUTS. **remarks:** Plant early maturing. Seeds runner market type. Similar to Florunner in yield, plant characters, shellability, blanchability, shelf-life, protein content, and oil content but one to two weeks earlier maturing. Cultivar. Seed.

PI 506238. *Beta vulgaris* L. CHENOPODIACEAE Sugarbeet

Donated by: Hecker, R.J., Crops Research Laboratory, USDA-ARS, Colorado State University, Ft. Collins, Colorado, United States; and Ruppel, E.G., Crops Research Laboratory, USDA-ARS, Colorado State University, Ft. Collins, Colorado, United States. **remarks:** A Joint release of USDA-ARS, the Beet Sugar Development Foundation, and the Colorado Agricultural Experiment Station. Received January 15, 1987.

donor id: FC 707(4x). **origin:** United States. **pedigree:** C5 colchicine-induced conversion of FC 707. **other id:** GP-119. **group:** CSR-SUGARBEET. **remarks:** Plant vigorous, genetically heterogeneous, autotetraploid ($2n = 4x = 36$), multigerm, pseudoself-fertile, easy bolting. Hypocotyls pink. Susceptible to curly top. **disease resistance:** Resistant to root and crown rot caused by AG-2 R. solani. Tolerant to Cercospora leaf spot. Breeding Material. Seed.

PI 506239 to 506240. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Erwin, D.C., Department of Plant Pathology, University of California, Riverside, California, United States. Received January 15, 1987.

PI 506239 **donor id:** A76-18. **origin:** United States. **pedigree:** Derived from 34 resistant plants. **other id:** GP-195. **group:** CSR-ALFALFA. **remarks:** Population subjected to five cycles of recurrent phenotypic selection. Plant nondormant type. **disease resistance:** Resistant to Pythophthora root rot. (*P. megasperma* f. sp. *medicaginis*). Breeding Material. Seed.

PI 506240 **donor id:** UC129. **origin:** United States. **pedigree:** Derived from 77 resistant plants. **other id:** GP-196. **group:** CSR-ALFALFA. **remarks:** Population subjected to three cycles of recurrent phenotypic selection. Plant nondormant type. **disease resistance:** Moderately resistant to leaf spot and root rot. (*Stagnospora meliloti*). Breeding Material. Seed.

PI 506241. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Pure-Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon, United States. **remarks:** Cooperative cultivar release by Pure-Seed Testing, Inc., Turf-Seed, Inc., and New Jersey Agricultural Experiment Station. Received January 15, 1987.

donor id: Pure Seed 282. **origin:** United States. **cultivar:** Citation II. **pedigree:** Synthetic selected from progenies of 13 clones. **other id:** CV-105. **group:** CSR-OTHER GRASSES. **remarks:** Plants selected for uniform maturity, high seed yield, attractive appearance, and freedom from disease. Turf type, leafy, persistent, attractive. Adapted to use on golf courses, home lawns, parks, athletic fields, institutional grounds, and school play areas. **disease resistance:** Possesses multiple disease and insect resistance. Perennial. Cultivated. Seed.

PI 506242. *Avena sativa* L. POACEAE Common oat

Donated by: Stuthman, D.D., Department of Agronomy and Plant Genetic, University of Minnesota, St. Paul, Minnesota, United States. **remarks:** Cooperative cultivar release by the Department of Agronomy and Plant Genetics, Department of Plant Pathology and USDA-ARS, University of Minnesota, St. Paul. Received January 15, 1987.

origin: United States. **cultivar:** Proat. **pedigree:** Dal/Lyon. **other id:** CV-316. **group:** CSR-OATS. **remarks:** Protein yield and bushel weight excellent. Best adapted to the northern portion of the Midwest oat growing region. Potentially valuable for feed and milling. **disease resistance:** Resistant to loose smut (*Ustilago avenae*). Resistant to crown rust (*Puccinia coronata* f. sp. *avenae*). Spring Annual. Cultivar. Seed.

PI 506243 to 506258. *Zea mays* L. POACEAE Corn

Donated by: Maize Research Program, IITA, P.M.B. 5320, Ibadan, Nigeria. Received January 15, 1987.

PI 506243 **donor id:** 1188. **origin:** Nigeria. **cultivar:** Tzi 1. **pedigree:** Dholi 7622(2)/TZSR. **other id:** PL-79. **group:** CSR-MAIZE. **remarks:** Plant maturity medium (105 days). Root lodging resistant. Grain color white. Grain texture flint/dent. Adapted to tropics. **disease resistance:** Resistant to maize streak virus (MSV). Breeding Material. Seed.

PI 506243 to 506258-continued

- PI 506244 donor id: 1368. origin: Nigeria. cultivar: Tzi 3. pedigree: Across 7721/TZSR. other id: PL-80. group: CSR-MAIZE. remarks: Plant maturity medium (105 days). Root lodging resistant. Grain color white. Grain texture dent/flint. Adapted to tropics. disease resistance: Resistant to maize streak virus (MSV). Breeding Material. Seed.
- PI 506245 donor id: 1393. origin: Nigeria. cultivar: Tzi 4. pedigree: Gua. Caste 7729/TZSR. other id: PL-81. group: CSR-MAIZE. remarks: Plant maturity late (120 days). Root lodging medium to resistant. Grain color white. Grain texture flint. Adapted to tropics. disease resistance: Resistant to maize streak virus (MSV). Breeding Material. Seed.
- PI 506246 donor id: 2097. origin: Nigeria. cultivar: Tzi 8. pedigree: TZB/TZSR. other id: PL-82. group: CSR-MAIZE. remarks: Plant maturity late (120 days). Root lodging resistant. Grain color white. Grain texture flint. Adapted to Tropics. disease resistance: Resistant to maize streak virus (MSV). Breeding Material. Seed.
- PI 506247 donor id: 5012. origin: Nigeria. cultivar: Tzi 9. pedigree: Sids 7734/TZSR. other id: PL-83. group: CSR-MAIZE. remarks: Plant maturity medium (105 days). Root lodging resistant. Grain color white. Grain texture dent/flint. Adapted to tropics. disease resistance: Resistant to maize streak virus (MSV). Breeding Material. Seed.
- PI 506248 donor id: 5057. origin: Nigeria. cultivar: Tzi 10. pedigree: Tlalt. 7844/TZSR. other id: PL-84. group: CSR-MAIZE. remarks: Plant maturity medium (105 days). Root lodging resistant. Grain color white. Grain texture dent. Adapted to tropics. disease resistance: Resistant to maize streak virus (MSV). Breeding Material. Seed.
- PI 506249 donor id: 9030. origin: Nigeria. cultivar: Tzi 12. pedigree: N28/TZSR. other id: PL-85. group: CSR-MAIZE. remarks: Plant maturity late (120 days). Root lodging resistant. Grain color cream. Grain texture dent/flint. Adapted to Tropics. disease resistance: Resistant to maize streak virus (MSV). Breeding Material. Seed.
- PI 506250 donor id: 9032. origin: Nigeria. cultivar: Tzi 13. pedigree: RppSR (TZ). other id: PL-86. group: CSR-MAIZE. remarks: Plant maturity late (120 days). Root lodging resistant. Grain color white. Grain texture dent. Adapted to tropics. disease resistance: Resistant to maize streak virus (MSV). Breeding Material. Seed.

PI 506243 to 506258-continued

- PI 506251 donor id: 9071. origin: Nigeria. cultivar: Tzi 15.
pedigree: N28/TZSR. other id: PL-87. group: CSR-MAIZE.
remarks: Plant maturity medium (105 days). Root lodging
intermediate. Grain color white. Grain texture
dent/flint. Adapted to tropics. disease resistance:
Resistant to maize streak virus (MSV). Breeding
Material. Seed.
- PI 506252 donor id: 9091. origin: Nigeria. cultivar: Tzi 17.
pedigree: RppSR (TZ). other id: PL-88. group:
CSR-MAIZE. remarks: Plant maturity medium (105 days).
Root lodging resistant. Grain color white. Grain texture
flint/dent. Adapted to tropics. disease resistance:
Resistant to maize streak virus (MSV). Breeding
Material. Seed.
- PI 506253 donor id: 4001. origin: Nigeria. cultivar: Tzi 18.
pedigree: Sete lag. 7728(2)/TZSR. other id: PL-89.
group: CSR-MAIZE. remarks: Plant maturity medium (105
days). Root lodging intermediate to susceptible. Grain
color yellow. Grain texture flint. Adapted to tropics.
disease resistance: Resistant to maize streak virus
(MSV). Breeding Material. Seed.
- PI 506254 donor id: 9432. origin: Nigeria. cultivar: Tzi 24.
pedigree: H95(3)/RppSR. other id: PL-90. group:
CSR-MAIZE. remarks: Plant maturity medium (105 days).
Root lodging resistant. Grain color yellow. Grain texture
dent. Adapted to tropics. disease resistance: Resistant
to maize streak virus (MSV). Breeding Material. Seed.
- PI 506255 donor id: 9450. origin: Nigeria. cultivar: Tzi 25.
pedigree: B73(3)/RppSR. other id: PL-91. group:
CSR-MAIZE. remarks: Plant maturity medium (105 days).
Root lodging resistant. Grain color yellow. Grain texture
dent. Adapted to tropics. disease resistance: Resistant
to maize streak virus (MSV). Breeding Material. Seed.
- PI 506256 donor id: 9490. origin: Nigeria. cultivar: Tzi 27.
pedigree: F44/RppSR. other id: PL-92. group: CSR-MAIZE.
remarks: Plant maturity medium (105 days). Root lodging
resistant. Grain color yellow. Grain texture dent/flint.
Adapted to tropics. disease resistance: Resistant to
maize streak virus (MSV). Breeding Material. Seed.
- PI 506257 donor id: 9499. origin: Nigeria. cultivar: Tzi 28.
pedigree: F44/RppSR. other id: PL-93. group: CSR-MAIZE.
remarks: Plant maturity medium (105 days). Root lodging
resistant. Grain color yellow. Grain texture dent/flint.
Adapted to tropics. disease resistance: Resistant to
maize streak virus (MSV). Breeding Material. Seed.

PI 506243 to 506258-continued

PI 506258 **donor id:** 9848. **origin:** Nigeria. **cultivar:** Tzi 30.
pedigree: H29(2)/ RppSR. **other id:** PL-94. **group:**
CSR-MAIZE. **remarks:** Plant maturity medium (105 days).
Root lodging intermediate. Grain color yellow. Grain
texture dent/flint. Adapted to tropics. **disease**
resistance: Resistant to maize streak virus (MSV).
Breeding Material. Seed.

PI 506259 to 506285. *Elytrigia spicata* (Pursh) D. R. Dewey POACEAE
Beardless wheatgrass

Donated by: Davis, A.M., Regional Plant Introduction Station,
USDA-ARS, Washington State University, Pullman, Washington, United
States. Received January 12, 1987.

PI 506259 **donor id:** D&S-201. **origin:** United States. **local name:**
Bluebunch wheatgrass. **collected:** July 29, 1982.
collector: A.M. Davis, D.M. Stout. **collector id:**
D&S-201. **locality:** Between 6 and 7 mile marker in
Steptoe Canyon, S of Colton, Whitman County, Washington.
elevation: 460m. **remarks:** Plant bunch, inerme type with
fine stems. **received as:** *Agropyron spicatum*. Wild.
Seed.

PI 506260 **donor id:** D&S-203. **origin:** United States. **local name:**
Bluebunch wheatgrass. **collected:** July 29, 1982.
collector: A.M. Davis, D.M. Stout. **collector id:**
D&S-203. **locality:** Schlee Canyon, 1.2km upstream from
junction of Steptoe Canyon, S of Colton, Whitman County,
Washington. **elevation:** 450m. **remarks:** Plants isolated
single large clumps, inerme type with fine stems.
received as: *Agropyron spicatum*. Wild. Seed.

PI 506261 **donor id:** D&S-204. **origin:** United States. **local name:**
Bluebunch wheatgrass. **collected:** July 29, 1982.
collector: A.M. Davis, D.M. Stout. **collector id:**
D&S-204. **locality:** Steptoe Canyon road, 100m below
milepost 5, S of Colton, Whitman County, Wasington.
elevation: 400m. **remarks:** Plant bunch type with fine
stems. **received as:** *Agropyron spicatum*. Wild. Seed.

PI 506262 **donor id:** D&S-207. **origin:** United States. **local name:**
Bluebunch wheatgrass. **collected:** July 29, 1982.
collector: A.M. Davis, D.M. Stout. **collector id:**
D&S-207. **locality:** Steptoe Canyon, 0.4km below milepost
2, S of Colton, Whitman County, Washington. **elevation:**
400m. **remarks:** Plant bunch type with fine stems.
received as: *Agropyron spicatum*. Wild. Seed.

PI 506259 to 506285-continued

- PI 506263 donor id: D&S-208. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-208. locality: Snake River road, 0.8km upriver from milepost 9, S of Colton, Whitman County, Washington. elevation: 200m. remarks: Plant bunch type with fine stems. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506264 donor id: D&S-209. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-209. locality: Snake River road at milepost 5, S of Colton, Whitman County, Washington. elevation: 200m. remarks: Plant bunch type with fine stems. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506265 donor id: D&S-210. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-210. locality: Snake River road at N end of new Clarkston bridge, Whitman County, Washington. elevation: 200m. remarks: Plant bunch type with fine stems. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506266 donor id: D&S-211. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-211. locality: Howell creek road, 0.3km up from junction with Clarkston- Pomeroy highway, Garfield County, Washington. elevation: 250m. remarks: Plant bunch type with fine stems. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506267 donor id: D&S-212. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-212. locality: Howell creek road, 3.3km up from junction with Clarkston- Pomeroy highway, Garfield County, Washington. elevation: 250m. remarks: Plant bunch type with fine stems. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506268 donor id: D&S-213. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-213. locality: Alpowa creek road, 5.7km up from junction with Clarkston- Pomeroy highway, Garfield County, Washington. elevation: 250m. remarks: Plant bunch type with fine stems. received as: *Agropyron spicatum*. Wild. Seed.

PI 506259 to 506285-continued

- PI 506269 donor id: D&S-214. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-214. locality: Snake River Canyon road, 1.6km S of Asotin, Asotin County, Washington. elevation: 200m. remarks: Plant bunch type with fine stems. received as: Agropyron spicatum. Wild. Seed.
- PI 506270 donor id: D&S-215. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-215. locality: Snake River Canyon road, 0.8km past end of blacktop, Asotin County, Washington. elevation: 200m. remarks: Plant bunch type with fine stems. received as: Agropyron spicatum. Wild. Seed.
- PI 506271 donor id: D&S-217. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-217. locality: Snake River Canyon road, 24.9km above Asotin, Asotin County, Washington. elevation: 200m. remarks: Plant bunch type with fine stems. received as: Agropyron spicatum. Wild. Seed.
- PI 506272 donor id: D&S-218. origin: United States. local name: Bluebunch wheatgrass. collected: July 29, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-218. locality: Spring bend of old Lewiston/Pullman highway, Whitman County, Washington. elevation: 400m. remarks: Plant bunch type with fine stems. received as: Agropyron spicatum. Wild. Seed.
- PI 506273 donor id: D&S-220. origin: United States. local name: Bluebunch wheatgrass. collected: August 02, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-220. locality: Wawawai Canyon road at first righthand turnout, 1.6km from top of canyon, Whitman County, Washington. elevation: 450m. remarks: Plant bunch type with fine stems. received as: Agropyron spicatum. Wild. Seed.
- PI 506274 donor id: D&S-221. origin: United States. local name: Bluebunch wheatgrass. collected: August 02, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-221. locality: Wawawai Canyon road, 4.1km from top of canyon, Whitman County, Washington. elevation: 300m. remarks: Plant bunch inerme type with fine stems. received as: Agropyron spicatum. Wild. Seed.

PI 506259 to 506285-continued

- PI 506275 donor id: D&S-222. origin: United States. local name: Bluebunch wheatgrass. collected: August 02, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-222. locality: Wawawai Canyon road, 4.1km from top of canyon, Whitman County, Washington. elevation: 300m. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506276 donor id: D&S-223. origin: United States. local name: Bluebunch wheatgrass. collected: August 02, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-223. locality: Wawawai Canyon road, 4.9km from top of canyon at 10 mile marker, Whitman County, Washington. elevation: 300m. remarks: Plant bunch, inerme, highly sterile type with fine leaves. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506277 donor id: D&S-224. origin: United States. local name: Bluebunch wheatgrass. collected: August 02, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-224. locality: Wawawai Canyon road, 4.9km from top of canyon at 10 mile marker, Whitman County, Washington. elevation: 300m. remarks: Plant bunch, highly sterile type with fine stems. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506278 donor id: D&S-226. origin: United States. local name: Bluebunch wheatgrass. collected: August 02, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-226. locality: At 8 mile post, Rimrock road branch of the Wawawai-Colton road, Whitman County, Washinton. elevation: 450m. remarks: Plant bunch type with fine stems. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506279 donor id: D&S-227. origin: United States. local name: Bluebunch wheatgrass. collected: August 02, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-227. locality: North slope, 4.1km down Penawawa Canyon from Highway 26, Whitman County, Washington. elevation: 350m. remarks: Plant bunch, inerme type with fine leaves. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506280 donor id: D&S-228. origin: United States. local name: Bluebunch wheatgrass. collected: August 04, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-228. locality: North slope, 8.2km down Penawawa Canyon from Highway 26, Whitman County, Washington. elevation: 300m. remarks: Plant bunch, inerme type with fine leaves. received as: *Agropyron spicatum*. Wild. Seed.

PI 506259 to 506285-continued

- PI 506281 donor id: D&S-230. origin: United States. local name: Bluebunch wheatgrass. collected: August 04, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-230. locality: North slope, 14.75km down Penawawa Canyon from Highway 26, Whitman County, Washington. elevation: 250m. remarks: Plant bunch type with fine leaves. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506282 donor id: D&S-231. origin: United States. local name: Bluebunch wheatgrass. collected: August 04, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-231. locality: At impoundment level, 16.4km down Penawawa Canyon from Highway 26, Whitman County, Washington. elevation: 200m. remarks: Plant bunch type with fine leaves. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506283 donor id: D&S-232. origin: United States. local name: Bluebunch wheatgrass. collected: August 04, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-232. locality: At water level, 16.4km down Penawawa Canyon from Highway 26, Whitman County, Washington. elevation: 200m. remarks: Plants bunch, mixed (awns) type with fine stems. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506284 donor id: D&S-233. origin: United States. local name: Bluebunch wheatgrass. collected: August 04, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-233. locality: Down Penawawa Canyon, 19.7km from junction of Highway 26, Whitman County, Washington. elevation: 200m. remarks: Plant bunch type with fine leaves. received as: *Agropyron spicatum*. Wild. Seed.
- PI 506285 donor id: D&S-234. origin: United States. local name: Bluebunch wheatgrass. collected: August 04, 1982. collector: A.M. Davis, D.M. Stout. collector id: D&S-234. locality: At Union Flat Creek road and Almota road junction, Whitman County, Washington. elevation: 600m. remarks: Plant bunch type with fine leaves. received as: *Agropyron spicatum*. Wild. Seed.

PI 506286 to 506343. *Hordeum vulgare* L. POACEAE Barley

Donated by: Nickerson RPB Limited, Joseph Nickerson Research Centre, Rothwell, Lincoln, England, United Kingdom. Received January 29, 1987.

PI 506286 origin: United Kingdom. cultivar: Auto. pedigree: Dragon/Claret. remarks: Two-row type. Spring Annual. Cultivar. Seed.

PI 506286 to 506343-continued

- PI 506287 **origin:** United Kingdom. **cultivar:** Cameo. **pedigree:** RPB 713-77/Kym. **remarks:** Two-row type. Spring Annual. Cultivar. Seed.
- PI 506288 **origin:** United Kingdom. **cultivar:** Escort. **pedigree:** Claret/RPB 256-75. **remarks:** Two-row type. Spring Annual. Cultivar. Seed.
- PI 506289 **origin:** United Kingdom. **cultivar:** Flute. **pedigree:** PF 51407/RPB 1081-76. **remarks:** Two-row, malting type. **disease resistance:** Resistant to cereal cyst nematode. Spring Annual. Cultivar. Seed.
- PI 506290 **origin:** United Kingdom. **cultivar:** Hocky. **pedigree:** Claret/Goblin. **remarks:** Two-row type. Spring Annual. Cultivar. Seed.
- PI 506291 **origin:** United Kingdom. **cultivar:** Regatta. **pedigree:** PF 52213/Claret. **remarks:** Two-row type. **disease resistance:** Resistant to cereal cyst nematode. Spring Annual. Cultivar. Seed.
- PI 506292 **origin:** United Kingdom. **cultivar:** Tennis. **pedigree:** Claret/Erna. **remarks:** Two-row type. Spring Annual. Cultivar. Seed.
- PI 506293 **origin:** United Kingdom. **cultivar:** Teo. **pedigree:** Claret/Erna. **remarks:** Two-row type. Spring Annual. Cultivar. Seed.
- PI 506294 **donor id:** NRPB 80-358. **origin:** United Kingdom. **pedigree:** Dragon/Kym. **remarks:** Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506295 **donor id:** NRPB 80-881. **origin:** United Kingdom. **pedigree:** Kym/Bobcat. **remarks:** Two-row, malting type. Spring Annual. Breeding Material. Seed.
- PI 506296 **donor id:** NRPB 80-931. **origin:** United Kingdom. **pedigree:** Claret/Kym. **remarks:** Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506297 **donor id:** NRPB 80-998. **origin:** United Kingdom. **pedigree:** Flare/Claret. **remarks:** Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506298 **donor id:** NRPB 80-1080. **origin:** United Kingdom. **pedigree:** Claret/RPB 825-76. **remarks:** Two-row type. Spring Annual. Breeding Material. Seed.

PI 506286 to 506343-continued

- PI 506299 donor id: NRPB 80-2000. origin: United Kingdom. pedigree: Sovereign/Tyra. remarks: Two-row, erectoid type. disease resistance: Resistant to cereal cyst nematode. Spring Annual. Breeding Material. Seed.
- PI 506300 donor id: NRPB 81-1032. origin: United Kingdom. pedigree: Cytris/BHC 76206. remarks: Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506301 donor id: NRPB 81-1096. origin: United Kingdom. pedigree: RPB 835-77/Cytris. remarks: Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506302 donor id: RPB 715-69. origin: United Kingdom. pedigree: Vada/Zephur. remarks: Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506303 donor id: RPB 228-70. origin: United Kingdom. pedigree: Vada/Impala//Deba Abed. remarks: Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506304 donor id: RPB 256-75. origin: United Kingdom. pedigree: RPB 157-69/Aramir. remarks: Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506305 donor id: RPB 269-73. origin: United Kingdom. pedigree: Dwarf line/Luke. remarks: Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506306 donor id: RPB 854-75. origin: United Kingdom. pedigree: Arabian 47-16/Abacus//Tyra. remarks: Two-row type. disease resistance: Resistant to cereal cyst nematode. Spring Annual. Breeding Material. Seed.
- PI 506307 donor id: RPB 825-76. origin: United Kingdom. pedigree: RPB 16-71/Luke. remarks: Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506308 donor id: RPB 50-78. origin: United Kingdom. pedigree: RPB 707-69/Julia//PF 5801. remarks: Two-row type. Spring Annual. Breeding Material. Seed.
- PI 506309 donor id: RPB 183-79. origin: United Kingdom. pedigree: RPB 537-74/Claret. remarks: Two-row type. Seeds black. Spring Annual. Breeding Material. Seed.
- PI 506310 donor id: RPB 914-79. origin: United Kingdom. pedigree: Armella/Neptune. remarks: Two-row type, erectoid type. Spring Annual. Breeding Material. Seed.

PI 506286 to 506343-continued

- PI 506311 **origin:** United Kingdom. **cultivar:** Altesse. **pedigree:** Maris Otter/Sonja//Igri. **remarks:** Two-row type. Winter Annual. Cultivar. Seed.
- PI 506312 **origin:** United Kingdom. **cultivar:** Oregon. **pedigree:** Igri/RPB 5043-76. **remarks:** Two-row type. Winter Annual. Cultivar. Seed.
- PI 506313 **origin:** United Kingdom. **cultivar:** Signal. **pedigree:** Sonja/Keg. **remarks:** Two-row, malting type. Winter Annual. Cultivar. Seed.
- PI 506314 **origin:** United Kingdom. **cultivar:** Torrent. **pedigree:** Fenella/Tri 685. **remarks:** Two-row type. **disease resistance:** Resistant to barley yellow mosaic virus. Winter Annual. Cultivar. Seed.
- PI 506315 **donor id:** NRPB 80-5008. **origin:** United Kingdom. **pedigree:** Athene/Marko. **remarks:** Six-row type. Winter Annual. Breeding Material. Seed.
- PI 506316 **donor id:** NRPB 80-5069. **origin:** United Kingdom. **pedigree:** Marko/Rino. **remarks:** Six-row type. Winter Annual. Breeding Material. Seed.
- PI 506317 **donor id:** RPB 5010-75. **origin:** United Kingdom. **pedigree:** Sel. from bulk of F2's. **remarks:** Two-row type. Winter Annual. Breeding Material. Seed.
- PI 506318 **donor id:** RPB 5155-77. **origin:** United Kingdom. **pedigree:** Sel. from bulk of F2's. **remarks:** Two-row type. Winter Annual. Breeding Material. Seed.
- PI 506319 **donor id:** RPB 5046-78. **origin:** United Kingdom. **pedigree:** Eng 36.64.742/Astrix///CI 8256/Inra 362//Astrix. **remarks:** Six-row type. Outer glumes elongated. Winter Annual. Breeding Material. Seed.
- PI 506320 **donor id:** RPB 5220-78. **origin:** United Kingdom. **pedigree:** Sonja/Pen. **remarks:** Two-row, malting type. Winter Annual. Breeding Material. Seed.
- PI 506321 **donor id:** RPB 5212-79. **origin:** United Kingdom. **pedigree:** RPB 26-73E/Igri. **remarks:** Two-row type. Winter Annual. Breeding Material. Seed.
- PI 506322 **donor id:** NB 85-3. **origin:** Nepal. **locality:** Himalayan region. **remarks:** Six-row type. Spring Annual. Cultivated. Seed.

PI 506286 to 506343-continued

- PI 506323 donor id: NB 89-4. origin: Nepal. locality: Himalayan region. remarks: Six-row, awnless type. Seeds purple naked. Spring Annual. Cultivated. Seed.
- PI 506324 donor id: NB 91. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds black, naked. Spring Annual. Cultivated. Seed.
- PI 506325 donor id: NB 91-1. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds black, naked. Spring Annual. Cultivated. Seed.
- PI 506326 donor id: NB 91-6. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds naked. Spring Annual. Cultivated. Seed.
- PI 506327 donor id: NB 91-7. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Spring Annual. Cultivated. Seed.
- PI 506328 donor id: NB 91-8. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Spring Annual. Cultivated. Seed.
- PI 506329 donor id: NB 91-9. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds naked. Spring Annual. Cultivated. Seed.
- PI 506330 donor id: NB 92. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds naked. Spring Annual. Cultivated. Seed.
- PI 506331 donor id: NB 92-2. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds black, naked. Spring Annual. Cultivated. Seed.
- PI 506332 donor id: NB 92-4. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds naked. Spring Annual. Cultivated. Seed.
- PI 506333 donor id: NB 92-8. origin: Nepal. locality: Himalayan region. remarks: Deficiens type. Seeds black. Spring Annual. Cultivated. Seed.
- PI 506334 donor id: NB 94. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds black, naked. Spring Annual. Cultivated. Seed.
- PI 506335 donor id: NB 94-3. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds black, naked. Spring Annual. Cultivated. Seed.

PI 506286 to 506343-continued

- PI 506336 donor id: NB 94-7. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Spring Annual. Cultivated. Seed.
- PI 506337 donor id: NB 96-3. origin: Nepal. locality: Himalayan region. remarks: Six-row, uzu (gene for short straw, dense heads, and short awns) type. Seeds naked. Spring Annual. Cultivated. Seed.
- PI 506338 donor id: NB 96-4. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Spring Annual. Cultivated. Seed.
- PI 506339 donor id: NB 98-9. origin: Nepal. locality: Himalayan region. remarks: Six-row uzu (gene for short straw, dense heads, and short awns) type. Seeds naked. Spring Annual. Cultivated. Seed.
- PI 506340 donor id: NB 99-2. origin: Nepal. locality: Himalayan region. remarks: Six-row type. Seeds purple, naked. Spring Annual. Cultivated. Seed.
- PI 506341 donor id: NB 100-1. origin: Nepal. locality: Himalayan region. remarks: Six-row, uzu (gene for short straw, dense heads, and short awns) type. Seeds pale red, naked. Spring Annual. Cultivated. Seed.
- PI 506342 donor id: NB 104. origin: Nepal. locality: Himalayan region. remarks: Six row type. Seeds hooded, naked. Spring Annual. Cultivated. Seed.
- PI 506343 donor id: Tibetan. origin: Tibet. locality: Himalayan region. remarks: Six row-type. Seeds naked. Spring Annual. Cultivated. Seed.

PI 506344 to 506345. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Martin, J., Fort Hayes Branch Agr. Experiment Sta., Kansas State University, Hays, Kansas, United States. remarks: Cooperative release by the Kansas Agricultural Experiment Station, Kansas State University, and USDA-ARS. Received January 29, 1987.

- PI 506344 donor id: KS82H144. origin: United States. cultivar: Dodge. pedigree: KS73H530(Newton sib)/KS76H1978-1(Arkan sib). other id: CV-724. group: CSR-WHEAT. remarks: Plant awned, white-glumed, semidwarf, hard red type. Maturity medium-early. Susceptible to wheat spindle streak mosaic virus and Hessian fly. Milling and bread making qualities excellent. disease resistance: Resistant to leaf and stem rust. Resistant to soilborne mosaic virus. Winter Annual. Cultivar. Seed.

PI 506344 to 506345-continued

PI 506345 donor id: KS82H4. origin: United States. cultivar: Norkan. pedigree: Plainsman V/3/2*(KS76H3705) Larned/Eagle//Sage. other id: CV-725. group: CSR-WHEAT. remarks: Plant awned, white-glumed, semidwarf, hard red type. Maturity medium to medium-late. Adapted best to northern Kansas. Susceptible to wheat spindle streak mosaic virus. disease resistance: Resistant to leaf rust (Lr24) and stem rust (Sr24). Resistant to soilborne mosaic virus. Resistant to Hessian fly (H3). Winter Annual. Cultivar. Seed.

PI 506346. *Vicia sativa* L. FABACEAE Common vetch

Donated by: Crespo, D.G., National Plant Improvement Station, Elvas, Portugal. remarks: Received through W.E. Knight, USDA-ARS, Mississippi State, MS. Received January 20, 1987.

origin: Portugal. collected: 1972. remarks: Contaminant found in PI 493288 *Lathyrus tingitanus*. Wild. Seed.

PI 506347 to 506348. *Zea mays* L. POACEAE Corn

Donated by: CIMMYT, Mexico, D.F., Mexico. Received May 15, 1986.

PI 506347 donor id: 6LA85A 126. origin: Thailand. cultivar: Suwan 1. remarks: Maturity 120-125 days. Complex pedigree consisting of West Indies, Mexican, Central and South American, U.S. dents, mildew resistant lines, and other germplasm. Plants shorter than most tropical maize types. Kernels orange-yellow, flint to semident type. disease resistance: Resistant to downy mildew. Cultivar. Seed.

PI 506348 donor id: TLA85A 125. origin: Thailand. cultivar: Suwan 2. pedigree: Sel. from Suwan 1(s)c2. remarks: Maturity early about 100 days. Shorter than PI (Suwan 1) Ears much smaller than PI (Suwan 1). Used for baby corn (canning and vegetable) in Thailand. Kernels yellow, flint type. disease resistance: Resistant to downy mildew. Cultivar. Seed.

PI 506349 to 506357. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Konzak, C.F., Department of Agronomy and Soils, Washington State University, Pullman, Washington, United States. Received February 8, 1987.

PI 506349 to 506357-continued

- PI 506349 **donor id:** WA6916. **origin:** United States. **pedigree:** Potam 70/Fielder. **remarks:** Plant semidwarf, medium early maturity. Spikes awned, near parallel. Chaff white. Grain ovate, white, soft texture. Adapted to high rainfall, dry land, and irrigated conditions. **disease resistance:** Resistant to local races of stripe, leaf and stem rusts. Resistant to lodging and shattering. Spring Annual. Breeding Material. Seed.
- PI 506350 **donor id:** WA7075. **origin:** United States. **cultivar:** Spillman. **pedigree:** K73579/Borah. **remarks:** Plant semidwarf type. Maturity medium. Awns long. Glumes white, sometimes with tan colored veins. Grain red, hard, good quality. Protein content higher than most hard, red spring types. Susceptible to Hessian fly. **disease resistance:** Resistant to leaf, stem, and stripe rusts. Resistant to mildew. Spring Annual. Cultivar. Seed.
- PI 506351 **donor id:** WA7175. **origin:** United States. **pedigree:** K78504/K74129-33//K7806645, NZ Sel K79299-24. **remarks:** Plant semidwarf, medium maturity. Spikes awned, near parallel. Chaff white. Grain ovate, white, soft texture. Adapted to high rainfall, dry land, and irrigated conditions. **disease resistance:** Resistant to local races of stripe, leaf and stem rusts. Resistant to shattering. Spring Annual. Breeding Material. Seed.
- PI 506352 **donor id:** WA7183. **origin:** United States. **cultivar:** Wakanz. **pedigree:** K78504/K79129-33//K7806645. **remarks:** Plant semidwarf, medium maturity. Spikes awned. Glumes white. Yield high. Grain soft, white. **insect resistance:** Resistant to Hessian fly. **disease resistance:** Adequate resistance to stripe, leaf, and stem rusts. Spring Annual. Cultivar. Seed.
- PI 506353 **donor id:** WA7186. **origin:** United States. **pedigree:** K74135/Potam 70. **remarks:** Plant semidwarf, medium early maturity. Spikes awned. Chaff red-brown. Grain ovate, white, soft texture. Adapted to high rainfall, dry land, and irrigated conditions. **disease resistance:** Resistant to local races of stripe, leaf, and stem rusts. Resistant to shattering. Spring Annual. Breeding Material. Seed.
- PI 506354 **donor id:** WA7187. **origin:** United States. **cultivar:** Wadual. **pedigree:** K74182/Potam 70. **remarks:** Plant semidwarf, medium early maturity. Spikes parallel-fusiform, awned. Glumes white. Grain white, soft. Dual quality properties for pastry and bread. **disease resistance:** Resistant to stripe, leaf and stem rusts. Moderately resistant to mildew. Spring Annual. Cultivar. Seed.

PI 506349 to 506357-continued

PI 506355 **donor id:** WA7492. **origin:** United States. **pedigree:** K78504/K74129-33//K7806645. **remarks:** Plant semidwarf, medium maturity. Spikes awned. Chaff white. Grain soft, white. **insect resistance:** Resistant to Hessian fly. **disease resistance:** Resistant to leaf stem, and stripe rust. Spring Annual. Breeding Material. Seed.

PI 506356 **donor id:** K8005300. **origin:** United States. **pedigree:** K74129/Potam 70. **remarks:** Plant semidwarf, medium maturity. Spikes awned, near parrallel. Chaff white. Grain ovate, white, soft texture. Adapted to high rainfall, dry land, and irrigated conditions. **disease resistance:** Resistant to local races of stripe, leaf, and stem rusts. Resistant to lodging and shattering. Spring Annual. Breeding Material. Seed.

PI 506357 **donor id:** K8005463. **origin:** United States. **pedigree:** K74135/Potam 70. **remarks:** Plant semidwarf, medium maturity. Spikes awned, near parallel. Chaff white. Grain ovate, white, soft texture. Adapted to high rainfall, dry land, and irrigated conditions. **disease resistance:** Resistant to local races of stripe, leaf, and stem rusts. Resistant to lodging and shattering. Spring Annual. Cultivar. Seed.

PI 506358 to 506361. *Malus domestica* Borkh. ROSACEAE Apple

Donated by: Swiss Fed. Res. Sta. for Fruit Growing, Viticulture and Horticulture, 8820 Wadenswil, Switzerland. **remarks:** Received through C. Shear, Beltsville, Maryland. Received November 1986.

PI 506358 **origin:** Switzerland. **cultivar:** Blauacher. **other id:** Q-22791. Cultivar. Cutting.

PI 506359 **origin:** Switzerland. **cultivar:** Heimenhofer. **other id:** Q-22793. Cultivar. Cutting.

PI 506360 **origin:** Switzerland. **cultivar:** Hordapfel. **other id:** Q-22794. Cultivar. Cutting.

PI 506361 **origin:** Switzerland. **cultivar:** Thurgauer Weinapfel. **other id:** Q-22796. Cultivar. Cutting.

PI 506362. *Pyrus* sp. ROSACEAE

Donated by: Department of Horticulture, Beijing Agricultural University, Beijing, People's Republic of China. Received November 1986.

PI 506362-continued

origin: China, Peoples Repub of. cultivar: Ya-li. other id: Q-22694. remarks: Leading pear cultivar. Cultivar name means "duck pear". Cultivar. Cutting.

PI 506363 to 506369. *Pyrus hondoensis* Kikuchi & Nakai ROSACEAE

Donated by: Kajiura, I., Fruit Research Station, Division of Fruit Breeding, Min. of Agr., Forestry and Fisheries, Tsukuba-Yatabe, Ibaraki, Japan. remarks: Received through M.N. Westwood, National Clonal Germplasm Repository, USDA-ARS, Corvallis, Oregon. Received December 1986.

PI 506363 origin: Japan. cultivar: Sotoorihime. other id: Q-22801. Cultivar. Cutting.

PI 506364 origin: Japan. cultivar: Iwate mukaku. other id: Q-22802. other id: CPYR 1574. locality: Iwate. Cultivar. Cutting.

PI 506365 origin: Japan. cultivar: Iwate yamanashi. other id: Q-22800. other id: CPYR 1575. locality: Iwate. Cultivar. Cutting.

PI 506366 origin: Japan. cultivar: Kamenashi. other id: Q-22803. other id: CPYR 1578. Cultivar. Cutting.

PI 506367 origin: Japan. cultivar: Yokogoshi. other id: Q-22804. other id: CPYR 1579. Cultivar. Cutting.

PI 506368 origin: Japan. cultivar: Iwate No. 1. other id: Q-22805. other id: CPYR 1577. locality: Iwate. Cultivar. Cutting.

PI 506369 origin: Japan. cultivar: Iwate No. 4. other id: Q-22806. other id: CPYR 1581. locality: Iwate. Cultivar. Cutting.

PI 506370. *Pyrus communis* L. ROSACEAE Pear

Donated by: National Fruit Trials, Brogdale Farm, Faversham, Kent, United Kingdom. Received November 1986.

origin: United Kingdom. cultivar: Passe Crassane. other id: Q-22825. Cultivar. Cutting.

PI 506371 to 506385. *Pyrus communis* L. ROSACEAE Pear

Donated by: van der Zwet, T., Appalachian Fruit Research Station, USDA-ARS, Rt. 2, Box 45, Kearneysville, West Virginia, United States. Received December 1986.

- PI 506371 donor id: Y-34. origin: Yugoslavia. cultivar: Panajurka. collected: 1978. collector: T. van der Zwet. collector id: Y-34. other id: Q-21248. locality: Near Meckovac, Serbia. remarks: Maturity early September. Fruits small, round, pyriform. Very susceptible to fire blight. Cultivar. Cutting.
- PI 506372 donor id: Y-130. origin: Yugoslavia. cultivar: Roosevelt. collected: 1980. collector: T. van der Zwet. collector id: Y-130. other id: Q-22030. locality: Near Topola, Serbia. remarks: Maturity September. Fruits medium, pyriform with red-whitish skin, excellent flavor, keep until January. Cultivar. Cutting.
- PI 506373 donor id: Y-167. origin: Yugoslavia. collected: 1980. collector: T. van der Zwet. collector id: Y-167. other id: Q-22070. locality: Near Alexandrovac, Serbia. remarks: Fruits medium, pyriform with flat base and small core. Tree possibly 70 years old. Cultivated. Cutting.
- PI 506374 donor id: Y-178. origin: Yugoslavia. cultivar: Petrovka. collected: 1980. collector: T. van der Zwet. collector id: Y-178. other id: Q-22081. locality: Near Karbulova, Serbia. remarks: Maturity at end of July. Fruits pyriform with whitish skin, sweet. Cultivar. Cutting.
- PI 506375 donor id: Y-212. origin: Yugoslavia. origin institute: Rasovo Nursery, Bijelo Polje, Montenegro. cultivar: Saprani I. collected: 1980. collector: T. van der Zwet. collector id: Y-212. other id: Q-22115. remarks: Rootstock. Cultivar. Cutting.
- PI 506376 donor id: Y-213. origin: Yugoslavia. origin institute: Rasovo Nursery, Bijelo Polje, Montenegro. cultivar: Saprani II. collected: 1980. collector: T. van der Zwet. collector id: Y-213. other id: Q-22116. remarks: Rootstock. Cultivar. Cutting.
- PI 506377 origin: Poland. origin institute: Research Institute of Pomology, 96-100 Skierniewice, Pomologiczna 18. cultivar: Winiowka saska. collected: 1975. other id: Q-20223. Cultivar. Cutting.

PI 506371 to 506385-continued

- PI 506378 donor id: R-9. origin: Romania. collected: 1978. collector: T. van der Zwet. collector id: R-9. other id: Q-21286. locality: Near Stoenesti. remarks: Maturity mid September. Fruit small, yellow. Used for brandy. Cultivated. Cutting.
- PI 506379 donor id: R-10. origin: Romania. collected: 1980. collector: T. van der Zwet. collector id: R-10. other id: Q-21287. locality: Near Valisoara (near Cluj). remarks: Fruits small, green. received as: Pyrus pyrester. Cutting.
- PI 506380 donor id: R-11. origin: Romania. collected: 1980. collector: T. van der Zwet. collector id: R-11. other id: Q 21288. locality: Near Valisoara. remarks: Fruits small, green. received as: Pyrus pyrester. Cutting.
- PI 506381 donor id: R-12. origin: Romania. collected: 1980. collector: T. van der Zwet. collector id: R-12. other id: Q-21289. locality: Near Baciú (near Cluj). remarks: Possibly a hybrid. Cultivated. Cutting.
- PI 506382 donor id: R-13. origin: Romania. collected: 1980. collector: T. van der Zwet. collector id: R-13. other id: Q-21290. locality: Near Baciú (near Cluj). remarks: Possibly a hybrid. Cultivated. Cutting.
- PI 506383 donor id: R-83. origin: Romania. origin institute: Inst des Rec. pour Arboricult. Fruttiere, 0300 Piteshi-Maracineni. cultivar: Tamioase de Calinesti. collected: 1978. collector: T. van der Zwet. collector id: R-83. other id: Q-21360. remarks: Fruits ovate. Cultivar. Cutting.
- PI 506384 donor id: R-94. origin: Romania. origin institute: Pomologische Versuchesstat, Bistrita. cultivar: Coadesele. collected: 1978. collector: T. van der Zwet. collector id: R-94. other id: Q-21371. Cultivar. Cutting.
- PI 506385 donor id: R-96. origin: Romania. origin institute: Pomologische Versuchesstat, Bistrita. cultivar: Para de Zahar de Bihar. collected: 1978. collector: T. van der Zwet. collector id: R-96. other id: Q-21373. remarks: Fruits pyriform. Cultivar. Cutting.

PI 506386 to 506388. *Pyrus communis* L. ROSACEAE Pear

Donated by: Stankovic, D., Department of Horticulture, University of Belgrade, 11080 Zemun, Belgrade, Yugoslavia. Received December 1986.

PI 506386 to 506388-continued

- PI 506386 **origin:** Yugoslavia. **origin institute:** Fruit Experiment Station, Cacak. **cultivar:** Takisha. **other id:** Q-20838. **locality:** Serbia. **remarks:** Fruit round, yellow. Used for dried fruit. Cultivar. Cutting.
- PI 506387 **origin:** Yugoslavia. **origin institute:** Fruit Experiment Station, Cacak. **cultivar:** Kajzerka. **other id:** Q-20840. **locality:** Serbia. **remarks:** Fruit small, green, late ripening. Cultivar. Cutting.
- PI 506388 **origin:** Yugoslavia. **cultivar:** Poznica. **other id:** Q-22685. **locality:** Bosnia. Cultivar. Cutting.

PI 506389 to 506392. *Prunus armeniaca* L. ROSACEAE Apricot

Donated by: Zagaja, S.W., Research Institute of Pomology, Pomologiczna 18, 96-100 Skierniewice, Poland. Received December 1986.

- PI 506389 **donor id:** No. 31/II-5. **origin:** Poland. **pedigree:** Oranzevo Krasny/Rubinowy. **other id:** Q-20803. Breeding Material. Cutting.
- PI 506390 **donor id:** No. 232/I-1. **origin:** Poland. **pedigree:** XI NS 5/Rubinovy//Stalingrad seedling. **other id:** Q-20805. Breeding Material. Cutting.
- PI 506391 **donor id:** No. 234/I-3. **origin:** Poland. **pedigree:** XI NS 5/Rubinovy//Stalingrad seedling. **other id:** Q-20806. Breeding Material. Cutting.
- PI 506392 **donor id:** No. 279/II-3. **origin:** Poland. **pedigree:** XI NS 5/Rubinovy//Uspiekh/Moorpark. **other id:** Q-20807. Breeding Material. Cutting.

PI 506393. *Prunus avium* (L.) L. ROSACEAE Sweet cherry

Donated by: Research & Production Inst. for Pomology, Pitesti, Romania. **remarks:** Received through F. Hough, Dept. of Horticulture & Forestry, Rutgers University. Received December 1986.

origin: Romania. **cultivar:** Ramon Oliva. **other id:** Q-19578. Cultivar. Cutting.

PI 506394. *Prunus cerasus* L. ROSACEAE Sour cherry

Donated by: Research & Production Inst. for Pomology, Pitesti, Romania. **remarks:** Received through F. Hough, Dept. of Horticulture & Forestry, Rutgers University. Received December 1986.

PI 506394-continued

origin: Romania. **cultivar:** H-Baneasa 6/26. **other id:** Q-19581. Breeding Material. Cutting.

PI 506395 to 506396. *Prunus domestica* L. ROSACEAE Plum

Donated by: Bulgarian Department of Horticulture, Ministry of Agr. and Food Industry, boul. Dr. Zankov, 6, Sofia-1421, Bulgaria. Received December 1986.

PI 506395 **origin:** Bulgaria. **cultivar:** Burja. **other id:** Q-21111. Cultivar. Cutting.

PI 506396 **origin:** Bulgaria. **cultivar:** Kinstendilsva. **other id:** Q-21110. Cultivar. Cutting.

PI 506397. *Prunus persica* (L.) Batsch ROSACEAE Peach

Donated by: Division of Horticulture, Department of Agriculture, Sydney, New South Wales 2000, Australia. Received December 1986.

origin: Australia. **cultivar:** Pioneer. **other id:** Q-02979. **remarks:** Fruit large, white fleshed, fairly pubescent, good color, very large stone, hangs well, ripens over long period. Maturity early to midseason. Flowers large, pinkish. Cultivar. Cutting.

PI 506398. *Prunus salicina* Lindley ROSACEAE Japanese plum

Donated by: Granite Belt Horticultural Res. Sta., Department of Primary Industries, Applethorpe, Queensland, Australia. Received December 1986.

origin: Australia. **cultivar:** Wilson. **other id:** Q-21691. Cultivar. Cutting.

PI 506399 to 506401. *Prunus dulcis* (Miller) D. Webb ROSACEAE Almond

Donated by: Helms, G., Route No. 1, Box 242, Hellertown, Pennsylvania, United States. Received December 1986.

PI 506399 **origin:** Germany, Federal Rep of. **cultivar:** Durkheim JV. **other id:** Q-21887. Cultivar. Cutting.

PI 506400 **origin:** Germany, Federal Rep of. **cultivar:** Durkheimer Riesen. **other id:** Q-21886. Cultivar. Cutting.

PI 506401 **origin:** Germany, Federal Rep of. **cultivar:** Schneider Heppenheim. **other id:** Q-21885. Cultivar. Cutting.

PI 506402. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Kerber, E.R., Research Station-de Recherche, Agriculture Canada, 195 Dafoe Road, Winnipeg, Manitoba, Canada. Received .

origin: Canada. **pedigree:** Marquis (2)/RL5713. **remarks:** Contains gene (Lr 32) for leaf rust resistance. Lr 32 transferred from *T. tauschii* RL5497-1. **disease resistance:** Resistant to leaf rust. Breeding Material. Seed.

PI 506403. *Aegilops tauschii* Cosson POACEAE

Donated by: Kerber, E.R., Research Station-de Recherche, Agriculture Canada, 195 Dafoe Road, Winnipeg, Manitoba, Canada. Received .

donor id: RL5497-1. **origin:** Canada. **remarks:** Diploid ($2n = 14 = DD$). **disease resistance:** Source of Lr 32 gene for resistance to leaf rust. **received as:** *Triticum tauschii*. Breeding Material. Seed.

PI 506404 to 506408. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Nickerson American Plant Breeders, Inc., 5201 Johnson Drive, Mission, Kansas, United States. Received .

PI 506404 **donor id:** SW76-180. **origin:** United States. **cultivar:** Lincoln. **pedigree:** Composite cross. **remarks:** Plant high yielding, early maturity, strong strawed, intermediate height. Glumes glabrous. Spikes white at maturity. Grain oval, soft red type with large embryo. Susceptible to stem rust and Hessian fly. **disease resistance:** Resistant to *Rhizoctonia*, soil borne mosaic virus. Resistant to leaf rust, *Septoria* leaf blotch and tan spot. Winter Annual. Cultivar. Seed.

PI 506405 **donor id:** H582-175. **origin:** United States. **cultivar:** Nordic. **pedigree:** Web 13-3/MN7125. **remarks:** Plant tall semidwarf, medium to late maturity, good straw strength. Spikes tapered to strap, middense, awned, white at maturity. Grain elliptical to ovate shaped with rounded cheeks, narrow and shallow crease. Hard red type. Adapted to the spring wheat region of the upper Midwest. **disease resistance:** Resistant to prevalent races of stem rust. Mod. resistant to prevalent races of leaf rust. Spring Annual. Cultivar. Seed.

PI 506404 to 506408-continued

PI 506406 **donor id:** HS82-288. **origin:** United States. **cultivar:** Telemark. **pedigree:** MN70170/Len. **remarks:** Plant short semidwarf, medium to early maturity, excellent straw strength. Flag leaf erect. Spikes strap shaped, awned, white at maturity. Seeds hard red type, oval to ovate shaped with rounded cheeks. Milling and baking properties good. Adapted to higher yield areas of the upper Midwest. **disease resistance:** Resistant to prevalent races of leaf rust. Mod. resistant to prevalent races of stem rust. Spring Annual. Cultivar. Seed.

PI 506407 **donor id:** HW81-170. **origin:** United States. **cultivar:** Trailblazer. **pedigree:** OK11252A/HW76-1226. **remarks:** Juvenile growth habit semi-erect. Flag leaf erect. Spikes tapering, middense, awned, white at maturity. Glumes long and narrow. Grain hard red type, ovate to elliptical shaped with rounded cheeks and midlong brush hairs. Adapted to areas of Kansas, Missouri, and Nebraska. **disease resistance:** Resistant to soil borne mosaic virus. Mod. resistant to prevalent races and leaf rusts. Winter Annual. Cultivar. Seed.

PI 506408 **donor id:** SW78-111. **origin:** United States. **cultivar:** Twain. **pedigree:** Knox 62/SRW 14-74. **remarks:** Plant intermediate height. Flag leaf erect. Spikes white at maturity. Glumes glabrous. Grain soft red type, ovate to elliptical shaped with rounded cheeks. Adapted to the central, eastern and mid-south areas of the soft wheat region. **disease resistance:** Res. to powdery mildew and prevalent races of leaf rust. Mod. resistant to field races of stem rust. Mod. res. to barley yellow dwarf virus, Rhizoctonia. Winter Annual. Cultivar. Seed.

PI 506409. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Lafever, H.N., Department of Agronomy, Ohio Agri. Res. and Development Center, Ohio State University, Wooster, Ohio, United States. Received February 6, 1987.

donor id: OH 265. **origin:** United States. **cultivar:** Dynasty. **pedigree:** BE1-5/Logan//Arthur/3/NY5726ab-3B-23/TN1403. **other id:** 10570A2-25-4-2. **remarks:** Plant medium early maturity, medium height with good straw strength. Heads large, bearded. Chaff white. Kernels medium-sized, soft red type. Milling and baking qualities good. **disease resistance:** Good resistance to WSSM virus and leaf rust. Moderate resistance to mildew. Winter Annual. Cultivar. Seed.

PI 506410 to 506413. *Zea mays* L. POACEAE Corn

Donated by: Wann, E.V., South Central Agricultural Research Lab., USDA-ARS, P.O. Box 159, Lane, Oklahoma, United States. Received February 17, 1987.

PI 506410 **donor id:** M6388. **origin:** United States. **pedigree:** F12(BC3F3 M97AC/Purdue 61-1-79-1)//Penn. State 2462. **other id:** GP-152. **group:** CSR-MAIZE. **remarks:** Genotype high-sugar endosperm. Days to anthesis 62. Cobs white. Kernels light yellow. Silks light cream. Susceptible to *Helminthosporium* leaf blights (*H. turcicum* and *H. maydis*). **disease resistance:** Moderate resistance to common corn rust (*Puccinia sorhgi*). Breeding Material. Seed.

PI 506411 **donor id:** M6411. **origin:** United States. **pedigree:** F10(BC1F6 M4206/Purdue 61-1-79-1)//Penn. State 2462. **other id:** GP-153. **group:** CSR-MAIZE. **remarks:** Genotype high-sugar endosperm. Days to anthesis 56. Cobs white. Kernels dull yellow. Silks light cream. Susceptible to *Helminthosporium* leaf blights (*H. turcicum* and *H. maydis*). **disease resistance:** Moderate resistance to common corn rust (*Puccinia sorhgi*). Breeding Material. Seed.

PI 506412 **donor id:** M6415. **origin:** United States. **pedigree:** F10(BC1F6 ILL. 197a/Purdue 61-1-79-1)//Penn. State 2462. **other id:** Gp-154. **group:** CSR-MAIZE. **remarks:** Genotype high-sugar endosperm. Days to anthesis 54. Cobs white. Kernels medium yellow. Silks light tan. Susceptible to *Helminthosporium* leaf blights (*H. turcicum* and *H. maydis*). **disease resistance:** Moderate resistance to common corn rust (*Puccinia sorhgi*). Breeding Material. Seed.

PI 506413 **donor id:** M6421. **origin:** United States. **pedigree:** F9(ILL. B2064//(BC4F3 M97AC/Purdue 61-1-79-1))//Penn State 2462. **other id:** GP-155. **group:** CSR-MAIZE. **remarks:** Genotype high-sugar endosperm. Days to anthesis 57. Cobs white. Kernels bright yellow. Silks light tan. Susceptible to *Helminthosporium* leaf blights (*H. turcicum* and *H. maydis*). **disease resistance:** Moderate resistance to common corn rust (*Puccinia sorhgi*). Breeding Material. Seed.

PI 506414 to 506416. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Wilson, F.D., USDA-ARS, Western Cotton Research Laboratory, 4135 E. Broadway Road, Phoenix, Arizona, United States. **remarks:** Cooperative releases by USDA-ARS and the Arizona Agricultural Experiment Station. Received February 17, 1987.

PI 506414 to 506416-continued

- PI 506414 donor id: WC-10NL. origin: United States. other id: GP-305. group: CSR-COTTON. remarks: Traits include nectariless and okra leaf. Yield potential high. Fiber properties adequate. disease resistance: Resistant to pink bollworm.(Pectinophora gossypiella). Breeding Material. Seed.
- PI 506415 donor id: WC-11NSSL. origin: United States. other id: GP-306. group: CSR-COTTON. remarks: Traits include nectariless, okra leaf, and semi-smoothleaf. Yield potential high. Fiber properties adequate. Less trash in harvested seedcotton and improved lint grade. disease resistance: Resistant to pink bollworm.(Pectinophora gossypiella). Breeding Material. Seed.
- PI 506416 donor id: WC-12NL. origin: United States. other id: GP-307. group: CSR-COTTON. remarks: Traits include nectariless, okra leaf, and semi-smoothleaf. Yield potential high. Fiber properties adequate. Less trash in harvested seedcotton and improved lint grade. disease resistance: Resistant to pink bollworm.(Pectinophora gossypiella). Breeding Material. Seed.

PI 506417. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Myers, Jr., O.; Schmidt, M.E., Department of Plant and Soil Science, Southern Illinois University, Carbondale, Illinois, United States. Received February 17, 1987.

donor id: LS78-248. origin: United States. cultivar: Egyptian. pedigree: Franklin/J74-5///Forrest//D68-18/PI88788. other id: CV-199. group: CSR-SOYBEAN. remarks: Maturity Group IV, determinant growth habit, medium height. Flowers white. Pubescence tawny. Pods tan. Seeds yellow with shiny coat and black hila, weight 12g/100. Susceptible to root knot nematodes Meloidogyne incognita and M. arenaria. disease resistance: High. resist. to races 3 and 4 of the soybean cyst nematode. Cultivar. Seed.

PI 506418. Lathyrus sativus L. FABACEAE Pea

Donated by: Campbell, G.G., Research Station, Agriculture Canada, Morden, Manitoba, Canada; and Briggs, C.J., Department of Pharmacy, University of Manitoba, Winnipeg, Manitoba, Canada; and Briggs, C.J., Department of Pharmacy, University of Manitoba, Winnipeg, Manitoba, Canada. Received February 17, 1987.

PI 506418-continued

donor id: LS8246. **origin:** Canada. **pedigree:** Selection from Pusa-24. **other id:** GP-70. **group:** CSR-PEAS.
remarks: Selection low in free amino acid Beta-N-oxalyl-L-alpha-beta- diamino propionic acid (ODAP). The neurotoxin ODAP causes Lathyrism, a neurodegenerative disorder. Content significantly lower than in Pusa-24. **Breeding Material. Seed.**

PI 506419. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Gorbet, D.W., Agri. Research and Education Center, University of Florida, Marianna, Florida, United States. Received February 17, 1987.

donor id: UF80202. **origin:** United States. **cultivar:** Southern Runner. **pedigree:** PI 203396/Florunner. **other id:** CV-32. **group:** CSR-PEANUTS. **other id:** 72/93-6-1-1-b3-B. **group:** CSR-PEANUTS. **remarks:** Maturity one week later than Florunner. Pods and seeds commercial runner market type, 58g/100 seed. Pods clean, uniform, mostly 2-seeded. Seeds round with light tan testa. Oil content 52.8%. Protein content 22.4%. Best adapted to areas south of 34 deg. N latitude. **disease resistance:** Resistant to leafspot (*Cercosporidium personatum*). **Cultivar. Seed.**

PI 506420. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Ahn, W.S., Plant Genetic Resources Program, Rural Development Administration, 250 Seodun Dong, Suweon 170, Republic of Korea. Received January 26, 1987.

origin: Korea, Republic of. **origin institute:** Youngnam Crop Experiment Station, Milyang. **origin institute id:** YS25-B-B-16-3-1-1-1-1. **cultivar:** Tankyongkong. **pedigree:** Williams/Kwangkyo. **other id:** Milyang 17. **remarks:** Growth habit determinate. Short-statured (43cm). Hilum color gray. Susceptible to soybean mosaic virus-N. **disease resistance:** Resistant to lodging. Resistant to soybean mosaic virus (SMV). **Cultivar. Seed.**

PI 506421. *Hordeum vulgare* L. POACEAE Barley

Donated by: Risius, M.L., Department of Agronomy, Pennsylvania State University, University Park, Pennsylvania, United States. Received January 29, 1987.

PI 506421-continued

donor id: PA8346-7. **origin:** United States. **cultivar:** Pennco. **other id:** CV-206. **group:** CSR-BARLEY. **remarks:** Six-row, feed type. Spikes compact, awnletted. **disease resistance:** Resistant to field races of powdery mildew and scald. Winter Annual. Cultivar. Seed.

PI 506422 to 506425. *Hordeum vulgare* L. POACEAE Barley

Donated by: Devaux, P., Florimond Desprez, B.P. 41-59242 Templeuve, Cappele, France. Received January 29, 1987.

PI 506422 **origin:** France. **cultivar:** Celtic. **remarks:** Six-row type. Spring Annual. Cultivar. Seed.

PI 506423 **origin:** France. **cultivar:** Flika. **remarks:** Two-row type. Spring Annual. Cultivar. Seed.

PI 506424 **origin:** France. **cultivar:** Gaulois. **remarks:** Six-row type. **disease resistance:** Resistant to barley mosaic virus. Spring Annual. Cultivar. Seed.

PI 506425 **origin:** France. **cultivar:** Pacha. **remarks:** Two-row type. Spring Annual. Cultivar. Seed.

PI 506426 to 506427. *Carthamus tinctorius* L. ASTERACEAE Safflower

Donated by: Li, Dajue, Beijing Botanical Garden, Institute of Botany, Chinese Academy of Science, Beijing, PRC. **remarks:** Received through P.F. Knowles, Blaine, Washington. Received February 04, 1987.

PI 506426 **origin:** China, Peoples Repub of. **cultivar:** FO-2. **pedigree:** Ruicheng/VFSTP-1. **remarks:** Plant spineless, cold tolerant in early growth stages. Flowers red. Seed hull striped. Cultivar. Seed.

PI 506427 **origin:** China, Peoples Repub of. **cultivar:** TA-1. **pedigree:** Tacheng/AC-1. **remarks:** Plant tall, spineless, requires long growing period. Flowers red. Oil content about 44%. Adapted to long day latitudes. Cultivar. Seed.

PI 506428. *Oryza sativa* L. POACEAE Rice

Donated by: McKenzie, K., Louisiana State Univ. Rice Research Sta., Rice Research Station, P.O. Box 1429, Crowley, Louisiana, United States. **remarks:** Cooperative release by the Louisiana Agricultural Experiment Station and USDA-ARS. Received February 10, 1987.

PI 506428-continued

donor id: 8502213. origin: United States. cultivar: Mercury. pedigree: Short Mars/Nato. other id: RU8502125. other id: CV-75. group: CSR-RICE. remarks: Plant semidwarf, medium grain type. Endosperm nonwaxy. Amylose content low. Gelatinization temperature low. Susceptible to IB1 and IB49 races of blast (*Pyricularia oryzae*). Moderately susceptible to sheath blight (*Rhizoctonia solani*). disease resistance: Resistant to brown leaf spot (*Bipolaris oryzae*). Moderately resistant to leaf smut (*Entyloma oryzae*). Cultivar. Seed.

PI 506429 to 506431. *Allium cepa* L. LILIACEAE Onion

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

PI 506429 origin: Soviet Union. collected: July 1986. locality: Farmer's market, Kishinev. remarks: Local type. Cultivated. Seed.

PI 506430 origin: Soviet Union. collected: July 1986. locality: Farmer's market, Kishinev. remarks: Local type. Cultivated. Seed.

PI 506431 origin: Soviet Union. collected: July 1986. locality: Farmer's market, Kishinev. remarks: Local type. Cultivated. Seed.

PI 506432. *Allium porrum* L. LILIACEAE Leek

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

origin: Soviet Union. collected: June 1986. locality: Farmer's market, Odessa. remarks: Local type. Cultivated. Seed.

PI 506433. *Anethum graveolens* L. APIACEAE Dill

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

origin: Soviet Union. collected: June 1986. locality: Farmer's market, Alma Ata. remarks: Local type. Cultivated. Seed.

PI 506434. *Apium graveolens* var. *rapaceum* (Miller) Gaudin APIACEAE
Celeriac

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon,
United States. Received February 18, 1987.

origin: Soviet Union. **collected:** July 1986. **locality:**
Farmer's market, Kishinev. **remarks:** Local type.
Cultivated. Seed.

PI 506435. *Calendula* sp. ASTERACEAE

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon,
United States. Received February 18, 1987.

origin: Soviet Union. **collected:** June 1986. **locality:**
Farmer's market, Odessa. **remarks:** Local type.
Cultivated. Seed.

PI 506436 to 506437. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon,
United States. Received February 18, 1987.

PI 506436 **origin:** Soviet Union. **collected:** July 1986. **locality:**
Farmer's market, Kishinev. **remarks:** Fruit round, red.
Local type. Cultivated. Seed.

PI 506437 **origin:** Soviet Union. **locality:** Farmer's market,
Kishinev. **remarks:** Fruit square-shaped, red. Local type.
Cultivated. Seed.

PI 506438. *Carum carvi* L. APIACEAE Caraway

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon,
United States. Received February 18, 1987.

origin: Soviet Union. **collected:** June 1986. **locality:**
Farmer's market, Alma Ata. **remarks:** Local type.
Cultivated. Seed.

PI 506439. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE
Watermelon

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon,
United States. Received February 18, 1987.

origin: Soviet Union. **collected:** July 1986. **locality:**
Farmer's market, Kishinev. **remarks:** Local type.
Cultivated. Seed.

PI 506440. *Cucumis sativus* L. CUCURBITACEAE Cucumber

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

origin: Soviet Union. **collected:** June 1986. **locality:** Farmer's market, Odessa. **remarks:** Local type. Cultivated. Seed.

PI 506441. *Cucurbita moschata* (Duch.) Duch. ex Poir. CUCURBITACEAE Summer squash

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

origin: Soviet Union. **collected:** July 1986. **locality:** Farmer's market, Kishinev. **remarks:** Local type. Fruit broad, cylindrical, pale green. Cultivated. Seed.

PI 506442 to 506443. *Cucurbita pepo* L. CUCURBITACEAE Squash

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

PI 506442 **origin:** Soviet Union. **collected:** June 1986. **locality:** Farmer's market, Odessa. **remarks:** Local type. Cultivated. Seed.

PI 506443 **origin:** Soviet Union. **collected:** June 1986. **locality:** Farmer's market, Odessa. **remarks:** Local type. Cultivated. Seed.

PI 506444 to 506445. *Daucus carota* L. APIACEAE Carrot

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

PI 506444 **origin:** Soviet Union. **collected:** June 1986. **locality:** Farmer's market, Alma Ata. **remarks:** Local type. Cultivated. Seed.

PI 506445 **origin:** Soviet Union. **collected:** June 1986. **locality:** Farmer's market, Alma Ata. **remarks:** Local type. Cultivated. Seed.

PI 506446. *Levisticum officinale* Koch APIACEAE Lovage

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

PI 506446-continued

origin: Soviet Union. **collected:** July 1986. **locality:** Farmer's market, Kishinev. **remarks:** Local type. Cultivated. Seed.

PI 506447. *Luffa acutangula* (L.) Roxb. CUCURBITACEAE Singkwa towelgourd

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

origin: Soviet Union. **collected:** July 1986. **locality:** Farmer's market, Kishinev. **remarks:** Local type. Cultivated. Seed.

PI 506448. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

origin: Soviet Union. **collected:** July 1986. **locality:** Farmer's market, Kishinev. **remarks:** Fruit yellow. Local type. Cultivated. Seed.

PI 506449 to 506450. *Petroselinum crispum* (Miller) Nym. ex A. W. Hill APIACEAE Parsley

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

PI 506449 **origin:** Soviet Union. **collected:** June 1986. **locality:** Farmer's market, Alma Ata. **remarks:** Local type. Cultivated. Seed.

PI 506450 **origin:** Soviet Union. **collected:** July 1986. **locality:** Farmer's market, Kishinev. **remarks:** Local type. Cultivated. Seed.

PI 506451 to 506452. *Raphanus sativus* L. BRASSICACEAE Radish

Donated by: Gessert, K.R., 1230 West Broadway, Eugene, Oregon, United States. Received February 18, 1987.

PI 506451 **origin:** Soviet Union. **collected:** July 1986. **locality:** Farmer's market, Kishinev. **remarks:** Roots red and white. Local type. Cultivated. Seed.

PI 506451 to 506452-continued

PI 506452 **origin:** Soviet Union. **collected:** July 1986. **locality:** Farmer's market, Kishinev. **remarks:** Roots black. Local type. Cultivated. Seed.

PI 506453 to 506456. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Duckett, K.E., University of Tennessee, 1215 West Cumberland Ave., Knoxville, Tennessee, United States. Received February 24, 1987.

PI 506453 **donor id:** 20. **origin:** China, Peoples Repub of. **cultivar:** Er Jin No. 92. **pedigree:** 3208/Jin Mian No. 1. **locality:** Jin Zhou, Jin Prefecture, Er Province. **remarks:** 3208 parent is a cross of Guan Nong No. 1/Stoneville. Cultivar. Seed.

PI 506454 **donor id:** 29. **origin:** China, Peoples Repub of. **cultivar:** Lu No. 2. **pedigree:** Local type/Deltapine. **locality:** Cheng Wu, Shang Dong Province. Cultivar. Seed.

PI 506455 **donor id:** 30. **origin:** China, Peoples Repub of. **cultivar:** Lu No. 3. **pedigree:** Local type/Deltapine. **locality:** Cheng Wu, Shang Dong Province. Cultivar. Seed.

PI 506456 **donor id:** 31. **origin:** China, Peoples Repub of. **cultivar:** Lu No. 6. **pedigree:** Local type/Deltapine. **locality:** Cheng Wu, Shang Dong Province. Cultivar. Seed.

PI 506457. *Cucumis melo* var. *ameri Pangalo* CUCURBITACEAE

Donated by: VIR, Leningrad, Soviet Union. Received April 1986.

donor id: VIR 5884. **origin:** Soviet Union. **cultivar:** Ak-uruk-1157. **locality:** Uzbek SSR. Cultivar. Seed.

PI 506458 to 506460. *Cucumis melo* var. *duripulposus* Filov
CUCURBITACEAE

Donated by: VIR, Leningrad, Soviet Union. Received April 1986.

PI 506458 **donor id:** VIR 5452. **origin:** Soviet Union. **cultivar:** Kolhoznica 749. **locality:** Rostov. Cultivar. Seed.

PI 506459 **donor id:** VIR 6789. **origin:** Soviet Union. **cultivar:** Salgirskaja. **locality:** Ukrainian SSR. Cultivar. Seed.

PI 506458 to 506460-continued

PI 506460 **donor id:** VIR 6857. **origin:** Soviet Union. **cultivar:** Kuvsinka. **locality:** Krasnodar. **Cultivar.** Seed.

PI 506461 to 506465. *Cucumis sativus* L. CUCURBITACEAE Cucumber

Donated by: VIR, Leningrad, Soviet Union. Received April 1986.

PI 506461 **donor id:** VIR 3125. **origin:** Soviet Union. **cultivar:** Parad 176. **locality:** Ukrainian SSR. **Cultivar.** Seed.

PI 506462 **donor id:** VIR 3186. **origin:** Soviet Union. **cultivar:** Har'kovskij. **locality:** Ukrainian SSR. **Cultivar.** Seed.

PI 506463 **donor id:** VIR 3230. **origin:** Soviet Union. **cultivar:** Velikolepnyj. **locality:** Volgograd. **Cultivar.** Seed.

PI 506464 **donor id:** VIR 3388. **origin:** Soviet Union. **cultivar:** Voronezskie. **locality:** Voronezi. **Cultivar.** Seed.

PI 506465 **donor id:** VIR 3392. **origin:** Soviet Union. **cultivar:** Jubilej. **locality:** Ukrainian SSR. **Cultivar.** Seed.

PI 506466 to 506468. *Cucurbita pepo* L. CUCURBITACEAE Squash

Donated by: VIR, Leningrad, Soviet Union. Received April 1986.

PI 506466 **donor id:** VIR 2908. **origin:** Soviet Union. **cultivar:** Gribovskie-37. **locality:** Moscow. **Cultivar.** Seed.

PI 506467 **donor id:** VIR 4005. **origin:** Soviet Union. **cultivar:** Dlinnoplodnye. **locality:** Ukrainian SSR. **Cultivar.** Seed.

PI 506468 **donor id:** VIR 4073. **origin:** Soviet Union. **cultivar:** Beloplodnye. **locality:** Krasnodar. **Cultivar.** Seed.

PI 506469 to 506470. *Triticum durum* Desf. POACEAE Durum wheat

Donated by: AgriPro, 806 North 2nd St., P.O. Box 30, Berthoud, Colorado, United States. Received March 4, 1987.

PI 506469 **donor id:** HD81-485. **origin:** United States. **cultivar:** Fjord. **pedigree:** Edmore/Ward. **remarks:** Plant standard height, medium-early maturity, good straw strength. Spikes strap to tapering shaped, dense, awned, white at maturity. Adapted to northern durum wheat region of North and South Dakota and Minnesota. **disease resistance:** Resistant to field races of leaf and stem rust. Spring Annual. **Cultivar.** Seed.

PI 506469 to 506470-continued

PI 506470 donor id: HD81-466. origin: United States. cultivar: Stockholm. pedigree: Calvin/Edmore. remarks: Plant semidwarf, medium to medium-early maturity, good straw strength. Spikes tapering to strap shaped, middense, awned, white at maturity. Adapted to northern durum wheat region of North and South Dakota and Minnesota and especially the higher yield areas. disease resistance: Resistant to field races of leaf and stem rust. Spring Annual. Cultivar. Seed.

PI 506471 to 507579. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Ikehashi, H., Genetic Resources Laboratory, Nat. Inst. of Agrobiological Resources, Yatabe, Tsukuba, 305, Ibaraki-Ken, Japan. remarks: Samples received at soybean germplasm collection, Urbana, Illinois, on January 29, 1986. Received January 20, 1987.

PI 506471 donor id: NIAR 040592. origin: Japan. cultivar: 2. locality: Kanto and Tosan. Cultivar. Seed.

PI 506472 donor id: NIAR 040593. origin: Japan. cultivar: 3. locality: Kanto and Tosan. Cultivar. Seed.

PI 506473 donor id: NIAR 030073. origin: Japan. cultivar: 18. locality: Hokuriku. Cultivar. Seed.

PI 506474 donor id: NIAR 020608. origin: Japan. cultivar: 20-6-10. locality: Tohoku. Cultivar. Seed.

PI 506475 donor id: NIAR 030074. origin: Japan. cultivar: 64. locality: Hokuriku. Cultivar. Seed.

PI 506476 donor id: NIAR 040273. origin: Japan. cultivar: A100. locality: Kanto and Tosan. Cultivar. Seed.

PI 506477 donor id: NIAR 020236. origin: Japan. cultivar: A-B. locality: Tohoku. Cultivar. Seed.

PI 506478 donor id: NIAR 020242. origin: Japan. cultivar: A-B(F). locality: Tohoku. Cultivar. Seed.

PI 506479 donor id: NIAR 020243. origin: Japan. cultivar: A-B(Shiroge). locality: Tohoku. Cultivar. Seed.

PI 506480 donor id: NIAR 020244. origin: Japan. cultivar: A-B(Shiroge). locality: Tohoku. Cultivar. Seed.

PI 506481 donor id: NIAR 020245. origin: Japan. cultivar: A-B(Shiroge). locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506482 donor id: NIAR 020246. origin: Japan. cultivar: A-B(Shiroge). locality: Tohoku. Cultivar. Seed.
- PI 506483 donor id: NIAR 040597. origin: Japan. cultivar: Agatsuma Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506484 donor id: NIAR 030007. origin: Japan. cultivar: Ai Mame. locality: Hokuriku. Cultivar. Seed.
- PI 506485 donor id: NIAR 020662. origin: Japan. cultivar: Aizu Mame. locality: Tohoku. Cultivar. Seed.
- PI 506486 donor id: NIAR 040840. origin: Japan. cultivar: Aka Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506487 donor id: NIAR 041026. origin: Japan. cultivar: Aka Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506488 donor id: NIAR 070035. origin: Japan. cultivar: Aka Daizu. locality: Shikoku. Cultivar. Seed.
- PI 506489 donor id: NIAR 020610. origin: Japan. cultivar: Akaho. locality: Tohoku. Cultivar. Seed.
- PI 506490 donor id: NIAR 070028. origin: Japan. cultivar: Akamame. locality: Shikoku. Cultivar. Seed.
- PI 506491 donor id: NIAR 090175. origin: Japan. cultivar: Akanida. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506492 donor id: NIAR 060095. origin: Japan. cultivar: Akasaya. locality: Kinki. Cultivar. Seed.
- PI 506493 donor id: NIAR 060096. origin: Japan. cultivar: Akasaya. locality: Kinki. Cultivar. Seed.
- PI 506494 donor id: NIAR 080030. origin: Japan. cultivar: Akasaya. locality: Chugoku. Cultivar. Seed.
- PI 506495 donor id: NIAR 040061. origin: Japan. cultivar: Akasaya Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506496 donor id: NIAR 040613. origin: Japan. cultivar: Akasaya (Fukui). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506497 donor id: NIAR 040615. origin: Japan. cultivar: Akasaya (Ibaragi). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506498 donor id: NIAR 040614. origin: Japan. cultivar: Akasaya (Ishioka). locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506499 donor id: NIAR 040330. origin: Japan. cultivar: Akasaya (Matsuo). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506500 donor id: NIAR 040021. origin: Japan. cultivar: Akasaya (Mejiro). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506501 donor id: NIAR 080025. origin: Japan. cultivar: Akasaya (Yamaguchi). locality: Chugoku. Cultivar. Seed.
- PI 506502 donor id: NIAR 040561. origin: Japan. cultivar: Akasaya (Zakouji). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506503 donor id: NIAR 030076. origin: Japan. cultivar: Aki Daizu. locality: Hokuriku. Cultivar. Seed.
- PI 506504 donor id: NIAR 040647. origin: Japan. cultivar: Aki Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506505 donor id: NIAR 041030. origin: Japan. cultivar: Aki Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506506 donor id: NIAR 020585. origin: Japan. cultivar: Aki Daizu 1. locality: Tohoku. Cultivar. Seed.
- PI 506507 donor id: NIAR 030079. origin: Japan. cultivar: Aki Daizu 1. locality: Hokuriku. Cultivar. Seed.
- PI 506508 donor id: NIAR 040076. origin: Japan. cultivar: Aki Daizu 2. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506509 donor id: NIAR 040063. origin: Japan. cultivar: Aki Daizu Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506510 donor id: NIAR 040266. origin: Japan. cultivar: Aki Daizu (Shiro). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506511 donor id: NIAR 020593. origin: Japan. cultivar: Aki Kei 13-1. locality: Tohoku. Cultivar. Seed.
- PI 506512 donor id: NIAR 040651. origin: Japan. cultivar: Akijiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506513 donor id: NIAR 040040. origin: Japan. cultivar: Akishiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506514 donor id: NIAR 090236. origin: Japan. cultivar: Akishirome. locality: Kyushu and Okinawa. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506515 donor id: NIAR 040487. origin: Japan. cultivar: Akita 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506516 donor id: NIAR 040496. origin: Japan. cultivar: Akita Ani. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506517 donor id: NIAR 020574. origin: Japan. cultivar: Akita Zairai (1). locality: Tohoku. Cultivar. Seed.
- PI 506518 donor id: NIAR 020575. origin: Japan. cultivar: Akita Zairai (2). locality: Tohoku. Cultivar. Seed.
- PI 506519 donor id: NIAR 020724. origin: Japan. cultivar: Akita Zairai (4). locality: Tohoku. Cultivar. Seed.
- PI 506520 donor id: NIAR 020723. origin: Japan. cultivar: Akita Zairai (3). locality: Tohoku. Cultivar. Seed.
- PI 506521 donor id: NIAR 040759. origin: Japan. cultivar: Akitashu (Ishioka). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506522 donor id: NIAR 020553. origin: Japan. cultivar: Akuden Shirazu. locality: Tohoku. Cultivar. Seed.
- PI 506523 donor id: NIAR 020262. origin: Japan. cultivar: AN-3. locality: Tohoku. Cultivar. Seed.
- PI 506524 donor id: NIAR 020264. origin: Japan. cultivar: AN-3. locality: Tohoku. Cultivar. Seed.
- PI 506525 donor id: NIAR 020263. origin: Japan. cultivar: AN-B(A). locality: Tohoku. Cultivar. Seed.
- PI 506526 donor id: NIAR 030094. origin: Japan. cultivar: Anbe. locality: Hokuriku. Cultivar. Seed.
- PI 506527 donor id: NIAR 020716. origin: Japan. cultivar: ANC-B(A). locality: Tohoku. Cultivar. Seed.
- PI 506528 donor id: NIAR 020234. origin: Japan. cultivar: ANC-B(B). locality: Tohoku. Cultivar. Seed.
- PI 506529 donor id: NIAR 020686. origin: Japan. cultivar: ANC-B(Shiroge). locality: Tohoku. Cultivar. Seed.
- PI 506530 donor id: NIAR 040054. origin: Japan. cultivar: Ao Aki Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506531 donor id: NIAR 040261. origin: Japan. cultivar: Ao Batsu. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506532 donor id: NIAR 040952. origin: Japan. cultivar: Ao
Chouhin 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506533 donor id: NIAR 040953. origin: Japan. cultivar: Ao
Chouhin 2. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506534 donor id: NIAR 040954. origin: Japan. cultivar: Ao
Chouhin 3. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506535 donor id: NIAR 040955. origin: Japan. cultivar: Ao
Chouhin 4. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506536 donor id: NIAR 040956. origin: Japan. cultivar: Ao
Chouhin 5. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506537 donor id: NIAR 040957. origin: Japan. cultivar: Ao
Chouhin 6 (Murasaki Bana). locality: Kanto and Tosan.
Cultivar. Seed.
- PI 506538 donor id: NIAR 040958. origin: Japan. cultivar: Ao
Chouhin 6 (Shiro Bana). locality: Kanto and Tosan.
Cultivar. Seed.
- PI 506539 donor id: NIAR 040959. origin: Japan. cultivar: Ao
Chouhin 7. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506540 donor id: NIAR 040960. origin: Japan. cultivar: Ao
Chouhin 8. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506541 donor id: NIAR 040961. origin: Japan. cultivar: Ao
Chouhin 9. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506542 donor id: NIAR 040962. origin: Japan. cultivar: Ao
Chouhin 10. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506543 donor id: NIAR 040963. origin: Japan. cultivar: Ao
Chouhin 11. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506544 donor id: NIAR 040964. origin: Japan. cultivar: Ao
Chouhin 12. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506545 donor id: NIAR 040965. origin: Japan. cultivar: Ao
Chouhin 13. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506546 donor id: NIAR 040966. origin: Japan. cultivar: Ao
Chouhin 14. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506547 donor id: NIAR 040967. origin: Japan. cultivar: Ao
Chouhin 15 (Muraski Bana). locality: Kanto and Tosan.
Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506548 donor id: NIAR 040968. origin: Japan. cultivar: Ao Chouhin 15 (Shiro Bana). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506549 donor id: NIAR 020624. origin: Japan. cultivar: Ao Chouhin 16 (Muraski Bana). locality: Tohoku. Cultivar. Seed.
- PI 506550 donor id: NIAR 020625. origin: Japan. cultivar: Ao Chouhin 16 (Shiro Bana). locality: Tohoku. Cultivar. Seed.
- PI 506551 donor id: NIAR 020626. origin: Japan. cultivar: Ao Chouhin 17. locality: Tohoku. Cultivar. Seed.
- PI 506552 donor id: NIAR 040558. origin: Japan. cultivar: Ao Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506553 donor id: NIAR 041056. origin: Japan. cultivar: Ao Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506554 donor id: NIAR 040765. origin: Japan. cultivar: Ao Daizu(G). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506555 donor id: NIAR 040011. origin: Japan. cultivar: Ao Ginjiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506556 donor id: NIAR 040821. origin: Japan. cultivar: Ao Ginjiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506557 donor id: NIAR 040260. origin: Japan. cultivar: Ao Hata. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506558 donor id: NIAR 020504. origin: Japan. cultivar: Ao Hira. locality: Tohoku. Cultivar. Seed.
- PI 506559 donor id: NIAR 040568. origin: Japan. cultivar: Ao Ko Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506560 donor id: NIAR 020229. origin: Japan. cultivar: Ao Mame. locality: Tohoku. Cultivar. Seed.
- PI 506561 donor id: NIAR 020632. origin: Japan. cultivar: Ao Mame. locality: Tohoku. Cultivar. Seed.
- PI 506562 donor id: NIAR 040764. origin: Japan. cultivar: Ao Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506563 donor id: NIAR 040742. origin: Japan. cultivar: Ao Sakigake. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506564 donor id: NIAR 040349. origin: Japan. cultivar: Ao Sengoku. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506565 donor id: NIAR 040586. origin: Japan. cultivar: Aobata. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506566 donor id: NIAR 020627. origin: Japan. cultivar: Aobata Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506567 donor id: NIAR 020674. origin: Japan. cultivar: Aobata (2). locality: Tohoku. Cultivar. Seed.
- PI 506568 donor id: NIAR 020675. origin: Japan. cultivar: Aobata (3). locality: Tohoku. Cultivar. Seed.
- PI 506569 donor id: NIAR 020667. origin: Japan. cultivar: Aogari. locality: Tohoku. Cultivar. Seed.
- PI 506570 donor id: NIAR 040599. origin: Japan. cultivar: Aogin. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506571 donor id: NIAR 020586. origin: Japan. cultivar: Aohata Komame (Gengen). locality: Tohoku. Cultivar. Seed.
- PI 506572 donor id: NIAR 090182. origin: Japan. cultivar: Aokawa Higu. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506573 donor id: NIAR 040784. origin: Japan. cultivar: Aoyagi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506574 donor id: NIAR 040727. origin: Japan. cultivar: Araku Mame (K). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506575 donor id: NIAR 040726. origin: Japan. cultivar: Araku Mame (YW). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506576 donor id: NIAR 040728. origin: Japan. cultivar: Arakuji Shirazu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506577 donor id: NIAR 040004. origin: Japan. cultivar: Asa Ao. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506578 donor id: NIAR 030042. origin: Japan. cultivar: Asahi. locality: Hokuriku. Cultivar. Seed.
- PI 506579 donor id: NIAR 040620. origin: Japan. cultivar: Asahi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506580 donor id: NIAR 030105. origin: Japan. cultivar: Asahi. locality: Hokuriku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506581 donor id: NIAR 020499. origin: Japan. cultivar: Asahi 60. locality: Tohoku. Cultivar. Seed.
- PI 506582 donor id: NIAR 060093. origin: Japan. cultivar: Asahi 60. locality: Kinki. Cultivar. Seed.
- PI 506583 donor id: NIAR 060094. origin: Japan. cultivar: Asahi Mame (Tairyuu). locality: Kinki. Cultivar. Seed.
- PI 506584 donor id: NIAR 040516. origin: Japan. cultivar: Asakii Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506585 donor id: NIAR 030106. origin: Japan. cultivar: Aso 1 (Kyu). locality: Hokuriku. Cultivar. Seed.
- PI 506586 donor id: NIAR 020665. origin: Japan. cultivar: Azuki Mame. locality: Tohoku. Cultivar. Seed.
- PI 506587 donor id: NIAR 020582. origin: Japan. cultivar: Ban Echigo. locality: Tohoku. Cultivar. Seed.
- PI 506588 donor id: NIAR 041053. origin: Japan. cultivar: Ban Etsugo. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506589 donor id: NIAR 090137. origin: Japan. cultivar: Bansei 30. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506590 donor id: NIAR 020597. origin: Japan. cultivar: Bansei Ao Daizu. locality: Tohoku. Cultivar. Seed.
- PI 506591 donor id: NIAR 070005. origin: Japan. cultivar: Bansei Daizu. locality: Shikoku. Cultivar. Seed.
- PI 506592 donor id: NIAR 020637. origin: Japan. cultivar: Bansei Hikarikuro. locality: Tohoku. Cultivar. Seed.
- PI 506593 donor id: NIAR 030053. origin: Japan. cultivar: Bansei Oojiro. locality: Hokuriku. Cultivar. Seed.
- PI 506594 donor id: NIAR 020230. origin: Japan. cultivar: Bittari Mame. locality: Tohoku. Cultivar. Seed.
- PI 506595 donor id: NIAR 040322. origin: Japan. cultivar: Bon Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506596 donor id: NIAR 020495. origin: Japan. cultivar: Bonjiro. locality: Tohoku. Cultivar. Seed.
- PI 506597 donor id: NIAR 060102. origin: Japan. cultivar: Byoutou Shushitou 1. locality: Kinki. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506598 donor id: NIAR 040190. origin: Japan. cultivar: Cha.
locality: Kanto and Tosan. Cultivar. Seed.
- PI 506599 donor id: NIAR 040649. origin: Japan. cultivar: Cha
Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506600 donor id: NIAR 020584. origin: Japan. cultivar: Cha
Sengoku 9. locality: Tohoku. Cultivar. Seed.
- PI 506601 donor id: NIAR 040839. origin: Japan. cultivar:
Chajiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506602 donor id: NIAR 030104. origin: Japan. cultivar: Chinko.
locality: Hokuriku. Cultivar. Seed.
- PI 506603 donor id: NIAR 040941. origin: Japan. cultivar: Chino
Zairai (1). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506604 donor id: NIAR 040942. origin: Japan. cultivar: Chino
Zairai (2). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506605 donor id: NIAR 040937. origin: Japan. cultivar: Chino
Zairai (3). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506606 donor id: NIAR 040948. origin: Japan. cultivar: Chino
Zairai (4). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506607 donor id: NIAR 090161. origin: Japan. cultivar:
Chinpitou (Torime). locality: Kyushu and Okinawa.
Cultivar. Seed.
- PI 506608 donor id: NIAR 040356. origin: Japan. cultivar: Chiyo
Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506609 donor id: NIAR 090202. origin: Japan. cultivar: Chizuka
Ibaraki 1. locality: Kyushu and Okinawa. Cultivar.
Seed.
- PI 506610 donor id: NIAR 040473. origin: Japan. cultivar: Chogan
Touji. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506611 donor id: NIAR 020683. origin: Japan. cultivar:
Chougetsu. locality: Tohoku. Cultivar. Seed.
- PI 506612 donor id: NIAR 040918. origin: Japan. cultivar: Chouhin
Hitashi 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506613 donor id: NIAR 040919. origin: Japan. cultivar: Chouhin
Hitashi 2. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506614 donor id: NIAR 040920. origin: Japan. cultivar: Chouhin
Hitashi 3. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

PI 506615 donor id: NIAR 040921. origin: Japan. cultivar: Chouhin
Hitashi 4. locality: Kanto and Tosan. Cultivar. Seed.

PI 506616 donor id: NIAR 040922. origin: Japan. cultivar: Chouhin
Hitashi 5. locality: Kanto and Tosan. Cultivar. Seed.

PI 506617 donor id: NIAR 040923. origin: Japan. cultivar: Chouhin
Hitashi 6. locality: Kanto and Tosan. Cultivar. Seed.

PI 506618 donor id: NIAR 040924. origin: Japan. cultivar: Chouhin
Hitashi 7. locality: Kanto and Tosan. Cultivar. Seed.

PI 506619 donor id: NIAR 040925. origin: Japan. cultivar: Chouhin
Hitashi 8. locality: Kanto and Tosan. Cultivar. Seed.

PI 506620 donor id: NIAR 040926. origin: Japan. cultivar: Chouhin
Hitashi 9. locality: Kanto and Tosan. Cultivar. Seed.

PI 506621 donor id: NIAR 040927. origin: Japan. cultivar: Chouhin
Hitashi 10. locality: Kanto and Tosan. Cultivar. Seed.

PI 506622 donor id: NIAR 040928. origin: Japan. cultivar: Chouhin
Hitashi 11. locality: Kanto and Tosan. Cultivar. Seed.

PI 506623 donor id: NIAR 040929. origin: Japan. cultivar: Chouhin
Hitashi 12. locality: Kanto and Tosan. Cultivar. Seed.

PI 506624 donor id: NIAR 040930. origin: Japan. cultivar: Chouhin
Hitashi 13. locality: Kanto and Tosan. Cultivar. Seed.

PI 506625 donor id: NIAR 040931. origin: Japan. cultivar: Chouhin
Hitashi 14. locality: Kanto and Tosan. Cultivar. Seed.

PI 506626 donor id: NIAR 040932. origin: Japan. cultivar: Chouhin
Hitashi 15. locality: Kanto and Tosan. Cultivar. Seed.

PI 506627 donor id: NIAR 040933. origin: Japan. cultivar: Chouhin
Hitashi 16. locality: Kanto and Tosan. Cultivar. Seed.

PI 506628 donor id: NIAR 040934. origin: Japan. cultivar: Chouhin
Hitashi 17. locality: Kanto and Tosan. Cultivar. Seed.

PI 506629 donor id: NIAR 040935. origin: Japan. cultivar: Chouhin
Hitashi 18. locality: Kanto and Tosan. Cultivar. Seed.

PI 506630 donor id: NIAR 020620. origin: Japan. cultivar: Chouhin
Hitashi 20. locality: Tohoku. Cultivar. Seed.

PI 506631 donor id: NIAR 040724. origin: Japan. cultivar:
Choukouji Zairai. locality: Kanto and Tosan. Cultivar.
Seed.

PI 506471 to 507579-continued

- PI 506632 donor id: NIAR 090190. origin: Japan. cultivar: Chousen Kuro Sengoku. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506633 donor id: NIAR 090147. origin: Japan. cultivar: Chousen Oiyarukon. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506634 donor id: NIAR 040777. origin: Japan. cultivar: Chousenshu (Cha). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506635 donor id: NIAR 040525. origin: Japan. cultivar: Choutan Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506636 donor id: NIAR 020583. origin: Japan. cultivar: Chuu Teppou. locality: Tohoku. Cultivar. Seed.
- PI 506637 donor id: NIAR 010076. origin: Japan. cultivar: Chuuiku 1. locality: Hokkaido. Cultivar. Seed.
- PI 506638 donor id: NIAR 080024. origin: Japan. cultivar: Chuujuku Daizu. locality: Chugoku. Cultivar. Seed.
- PI 506639 donor id: NIAR 040969. origin: Japan. cultivar: Chuukyousan (Tokiwa Seifun). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506640 donor id: NIAR 060064. origin: Japan. cultivar: Chuusei 11. locality: Kinki. Cultivar. Seed.
- PI 506641 donor id: NIAR 020371. origin: Japan. cultivar: Chuusei Date Cha. locality: Tohoku. Cultivar. Seed.
- PI 506642 donor id: NIAR 040763. origin: Japan. cultivar: Chuusei Sendai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506643 donor id: NIAR 070029. origin: Japan. cultivar: Col/Tokushima/1967. locality: Shikoku. Cultivar. Seed.
- PI 506644 donor id: NIAR 070031. origin: Japan. cultivar: Col/Tokushima/1967. locality: Shikoku. Cultivar. Seed.
- PI 506645 donor id: NIAR 070034. origin: Japan. cultivar: Col/Tokushima/1967. locality: Shikoku. Cultivar. Seed.
- PI 506646 donor id: NIAR 070036. origin: Japan. cultivar: Col/Tokushima/1967. locality: Shikoku. Cultivar. Seed.
- PI 506647 donor id: NIAR 090167. origin: Japan. cultivar: D 4 (Shirobeso). locality: Kyushu and Okinawa. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506648 donor id: NIAR 020691. origin: Japan. cultivar: Dai-ichi Hienuki. locality: Tohoku. Cultivar. Seed.
- PI 506649 donor id: NIAR 041058. origin: Japan. cultivar: Dai-ichi Hienuki 1-2. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506650 donor id: NIAR 041059. origin: Japan. cultivar: Dai-ichi Hienuki 4-3. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506651 donor id: NIAR 041060. origin: Japan. cultivar: Dai-ichi Hienuki 10-3. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506652 donor id: NIAR 020536. origin: Japan. cultivar: Daidou Mame. locality: Tohoku. Cultivar. Seed.
- PI 506653 donor id: NIAR 040362. origin: Japan. cultivar: Daikokou. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506654 donor id: NIAR 040793. origin: Japan. cultivar: Daizu 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506655 donor id: NIAR 030092. origin: Japan. cultivar: Daizu 2. locality: Hokuriku. Cultivar. Seed.
- PI 506656 donor id: NIAR 020588. origin: Japan. cultivar: Daizu B. locality: Tohoku. Cultivar. Seed.
- PI 506657 donor id: NIAR 040481. origin: Japan. cultivar: Daizu Uki 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506658 donor id: NIAR 040545. origin: Japan. cultivar: Daruma 2. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506659 donor id: NIAR 020528. origin: Japan. cultivar: Daruma Masari (Takei 7). locality: Tohoku. Cultivar. Seed.
- PI 506660 donor id: NIAR 020418. origin: Japan. cultivar: Date Ao. locality: Tohoku. Cultivar. Seed.
- PI 506661 donor id: NIAR 040703. origin: Japan. cultivar: Date Cha Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506662 donor id: NIAR 040494. origin: Japan. cultivar: Dekisugi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506663 donor id: NIAR 040493. origin: Japan. cultivar: Dekisugi 1. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579--continued

- PI 506664 donor id: NIAR 060099. origin: Japan. cultivar: Dekisugi 1. locality: Kinki. Cultivar. Seed.
- PI 506665 donor id: NIAR 090168. origin: Japan. cultivar: E.G.L.I.. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506666 donor id: NIAR 040855. origin: Japan. cultivar: Echigo Baka. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506667 donor id: NIAR 090139. origin: Japan. cultivar: Fuesukibii III. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506668 donor id: NIAR 040996. origin: Japan. cultivar: Fuji Otome. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506669 donor id: NIAR 090191. origin: Japan. cultivar: Fujihime. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506670 donor id: NIAR 040943. origin: Japan. cultivar: Fujimi Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506671 donor id: NIAR 040323. origin: Japan. cultivar: Fukuhime. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506672 donor id: NIAR 040994. origin: Japan. cultivar: Fukumejiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506673 donor id: NIAR 020111. origin: Japan. cultivar: Fukunaga 1. locality: Tohoku. Cultivar. Seed.
- PI 506674 donor id: NIAR 020402. origin: Japan. cultivar: Fukushimashu. locality: Tohoku. Cultivar. Seed.
- PI 506675 donor id: NIAR 090235. origin: Japan. cultivar: Fukuyutaka. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506676 donor id: NIAR 040860. origin: Japan. cultivar: Furuzato Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506677 donor id: NIAR 090177. origin: Japan. cultivar: Fusanari Daizu. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506678 donor id: NIAR 040270. origin: Japan. cultivar: G. ussuriensis Giken. locality: Takai. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506679 **donor id:** NIAR 040652. **origin:** Japan. **cultivar:** Gakuran Daizu. **locality:** Takai. Cultivar. Seed.
- PI 506680 **donor id:** NIAR 040876. **origin:** Japan. **cultivar:** Gakuran Daizu. **locality:** Takai. Cultivar. Seed.
- PI 506681 **donor id:** NIAR 040738. **origin:** Japan. **cultivar:** Gankui. **locality:** Takai. Cultivar. Seed.
- PI 506682 **donor id:** NIAR 020372. **origin:** Japan. **cultivar:** Gankui 1. **locality:** Tohoku. Cultivar. Seed.
- PI 506683 **donor id:** NIAR 020316. **origin:** Japan. **cultivar:** Geden Shirazu. **locality:** Tohoku. Cultivar. Seed.
- PI 506684 **donor id:** NIAR 020552. **origin:** Japan. **cultivar:** Geden Shirazu 1. **locality:** Tohoku. Cultivar. Seed.
- PI 506685 **donor id:** NIAR 041040. **origin:** Japan. **cultivar:** Genzoku. **locality:** Kanto and Tosan. Cultivar. Seed.
- PI 506686 **donor id:** NIAR 060038. **origin:** Japan. **cultivar:** Gifu Wase Senshutsu. **locality:** Kinki. Cultivar. Seed.
- PI 506687 **donor id:** NIAR 040009. **origin:** Japan. **cultivar:** Ginjiro. **locality:** Kanto and Tosan. Cultivar. Seed.
- PI 506688 **donor id:** NIAR 030075. **origin:** Japan. **cultivar:** Ginjiro. **locality:** Hokuriku. Cultivar. Seed.
- PI 506689 **donor id:** NIAR 040602. **origin:** Japan. **cultivar:** Ginjiro. **locality:** Kanto and Tosan. Cultivar. Seed.
- PI 506690 **donor id:** NIAR 040603. **origin:** Japan. **cultivar:** Ginjiro. **locality:** Kanto and Tosan. Cultivar. Seed.
- PI 506691 **donor id:** NIAR 040617. **origin:** Japan. **cultivar:** Ginjiro. **locality:** Kanto and Tosan. Cultivar. Seed.
- PI 506692 **donor id:** NIAR 020677. **origin:** Japan. **cultivar:** Ginnan. **locality:** Tohoku. Cultivar. Seed.
- PI 506693 **donor id:** NIAR 040762. **origin:** Japan. **cultivar:** Gionbou. **locality:** Kanto and Tosan. Cultivar. Seed.
- PI 506694 **donor id:** NIAR 040798. **origin:** Japan. **cultivar:** Gioo. **locality:** Kanto and Tosan. Cultivar. Seed.
- PI 506695 **donor id:** NIAR 090184. **origin:** Japan. **cultivar:** Gogaku. **locality:** Kyushu and Okinawa. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506696 donor id: NIAR 040702. origin: Japan. cultivar: Gogounari. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506697 donor id: NIAR 060119. origin: Japan. cultivar: Gokuwase Hayabusa Edamame. locality: Kinki. Cultivar. Seed.
- PI 506698 donor id: NIAR 020663. origin: Japan. cultivar: Goyou Daizu. locality: Tohoku. Cultivar. Seed.
- PI 506699 donor id: NIAR 020698. origin: Japan. cultivar: Goyou Daizu (A). locality: Tohoku. Cultivar. Seed.
- PI 506700 donor id: NIAR 090232. origin: Japan. cultivar: H 25. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506701 donor id: NIAR 020577. origin: Japan. cultivar: Habiki 1. locality: Tohoku. Cultivar. Seed.
- PI 506702 donor id: NIAR 070001. origin: Japan. cultivar: Hachigatsu Daizu. locality: Shikoku. Cultivar. Seed.
- PI 506703 donor id: NIAR 040290. origin: Japan. cultivar: Hachigatsu Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506704 donor id: NIAR 040616. origin: Japan. cultivar: Hachigatsu Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506705 donor id: NIAR 020508. origin: Japan. cultivar: Hachigatsukou 3. locality: Tohoku. Cultivar. Seed.
- PI 506706 donor id: NIAR 040853. origin: Japan. cultivar: Hachihei Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506707 donor id: NIAR 000006. origin: Japan. cultivar: Hachikoku. Cultivar. Seed.
- PI 506708 donor id: NIAR 040814. origin: Japan. cultivar: Hachiri Han. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506709 donor id: NIAR 040457. origin: Japan. cultivar: Hadaka. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506710 donor id: NIAR 040458. origin: Japan. cultivar: Hadaka. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506711 donor id: NIAR 040456. origin: Japan. cultivar: Hadaka Daizu. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506712 donor id: NIAR 040357. origin: Japan. cultivar: Hagen Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506713 donor id: NIAR 040577. origin: Japan. cultivar: Hagishina Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506714 donor id: NIAR 040824. origin: Japan. cultivar: Hakkou. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506715 donor id: NIAR 040542. origin: Japan. cultivar: Hakuchuu 47. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506716 donor id: NIAR 040101. origin: Japan. cultivar: Hakuchuuta. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506717 donor id: NIAR 020604. origin: Japan. cultivar: Hakushuu 1. locality: Tohoku. Cultivar. Seed.
- PI 506718 donor id: NIAR 040808. origin: Japan. cultivar: Hakushuu 1 (Shirome). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506719 donor id: NIAR 070027. origin: Japan. cultivar: Hana Shirazu. locality: Shikoku. Cultivar. Seed.
- PI 506720 donor id: NIAR 040530. origin: Japan. cultivar: Hanayome. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506721 donor id: NIAR 020679. origin: Japan. cultivar: Hanayome. locality: Tohoku. Cultivar. Seed.
- PI 506722 donor id: NIAR 020670. origin: Japan. cultivar: Hanayome 1. locality: Tohoku. Cultivar. Seed.
- PI 506723 donor id: NIAR 041023. origin: Japan. cultivar: Hanayome Ibaraki 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506724 donor id: NIAR 040287. origin: Japan. cultivar: Hanayome (Shirome). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506725 donor id: NIAR 040949. origin: Japan. cultivar: Hasemura Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506726 donor id: NIAR 040710. origin: Japan. cultivar: Hashiri. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506727 donor id: NIAR 040844. origin: Japan. cultivar: Hata Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506728 donor id: NIAR 040747. origin: Japan. cultivar: Hatagoshi Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506729 donor id: NIAR 020556. origin: Japan. cultivar: Hato Goroshi 12. locality: Tohoku. Cultivar. Seed.
- PI 506730 donor id: NIAR 020476. origin: Japan. cultivar: Hato Koroshi 4. locality: Tohoku. Cultivar. Seed.
- PI 506731 donor id: NIAR 020475. origin: Japan. cultivar: Hato Koroshi 10. locality: Tohoku. Cultivar. Seed.
- PI 506732 donor id: NIAR 030108. origin: Japan. cultivar: Hatsukogane. locality: Hokuriku. Cultivar. Seed.
- PI 506733 donor id: NIAR 030054. origin: Japan. cultivar: Heijou. locality: Hokuriku. Cultivar. Seed.
- PI 506734 donor id: NIAR 060080. origin: Japan. cultivar: Heitou Tamago Mame 2. locality: Kinki. Cultivar. Seed.
- PI 506735 donor id: NIAR 041057. origin: Japan. cultivar: Heiwa Kuro Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506736 donor id: NIAR 020430. origin: Japan. cultivar: Higashikanai Mame 2. locality: Tohoku. Cultivar. Seed.
- PI 506737 donor id: NIAR 040077. origin: Japan. cultivar: Hikage Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506738 donor id: NIAR 040019. origin: Japan. cultivar: Hikage Shirazu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506739 donor id: NIAR 040598. origin: Japan. cultivar: Hikage Shirazu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506740 donor id: NIAR 040277. origin: Japan. cultivar: Hikari. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506741 donor id: NIAR 020668. origin: Japan. cultivar: Hikari (Gunma). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506742 donor id: NIAR 050012. origin: Japan. cultivar: Hime Daizu. locality: Tokai. Cultivar. Seed.
- PI 506743 donor id: NIAR 041031. origin: Japan. cultivar: Hinshumei Fushou. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506744 donor id: NIAR 020616. origin: Japan. cultivar: Hira Mame. locality: Tohoku. Cultivar. Seed.
- PI 506745 donor id: NIAR 040829. origin: Japan. cultivar: Hirai 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506746 donor id: NIAR 020369. origin: Japan. cultivar: Hiraishi. locality: Tohoku. Cultivar. Seed.
- PI 506747 donor id: NIAR 080031. origin: Japan. cultivar: Hirose Kuro Daizu. locality: Chugoku. Cultivar. Seed.
- PI 506748 donor id: NIAR 040991. origin: Japan. cultivar: Hiroshima Kuro Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506749 donor id: NIAR 080036. origin: Japan. cultivar: Hiroshima Kuro Daizu. locality: Chugoku. Cultivar. Seed.
- PI 506750 donor id: NIAR 040578. origin: Japan. cultivar: Hitashi Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506751 donor id: NIAR 020726. origin: Japan. cultivar: Hitashi Mame. locality: Tohoku. Cultivar. Seed.
- PI 506752 donor id: NIAR 040946. origin: Japan. cultivar: Hitashi Mame 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506753 donor id: NIAR 040947. origin: Japan. cultivar: Hitashi Mame 2. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506754 donor id: NIAR 000013. origin: Japan. cultivar: Hitori Musume (Edamame). Cultivar. Seed.
- PI 506755 donor id: NIAR 090172. origin: Japan. cultivar: Hitoyoshi. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506756 donor id: NIAR 040508. origin: Japan. cultivar: Hiyake Shirazu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506757 donor id: NIAR 040427. origin: Japan. cultivar: Hokuman 198. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506758 donor id: NIAR 040527. origin: Japan. cultivar: Honshu Akasaya 37. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506759 donor id: NIAR 040471. origin: Japan. cultivar: Houchiou. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506760 donor id: NIAR 020354. origin: Japan. cultivar: Houei.
locality: Tohoku. Cultivar. Seed.
- PI 506761 donor id: NIAR 040585. origin: Japan. cultivar:
Houjaku. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506762 donor id: NIAR 020589. origin: Japan. cultivar: Houten
Hakubi. locality: Tohoku. Cultivar. Seed.
- PI 506763 donor id: NIAR 040845. origin: Japan. cultivar: Houzuya
Kuwazu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506764 donor id: NIAR 090204. origin: Japan. cultivar: Hyuuga.
locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506765 donor id: NIAR 020546. origin: Japan. cultivar: Ibaragi
Mame. locality: Tohoku. Cultivar. Seed.
- PI 506766 donor id: NIAR 020394. origin: Japan. cultivar: Ibaragi
Mame 7. locality: Tohoku. Cultivar. Seed.
- PI 506767 donor id: NIAR 020615. origin: Japan. cultivar: Ichiba
Arashi. locality: Tohoku. Cultivar. Seed.
- PI 506768 donor id: NIAR 040579. origin: Japan. cultivar: Ichita
Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506769 donor id: NIAR 040529. origin: Japan. cultivar: Ichou.
locality: Kanto and Tosan. Cultivar. Seed.
- PI 506770 donor id: NIAR 040780. origin: Japan. cultivar: Ihhon
Sangou. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506771 donor id: NIAR 040779. origin: Japan. cultivar: Ihhon
Sangou (W). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506772 donor id: NIAR 040594. origin: Japan. cultivar: Iiyama
Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506773 donor id: NIAR 020481. origin: Japan. cultivar: Iizaka.
locality: Tohoku. Cultivar. Seed.
- PI 506774 donor id: NIAR 040366. origin: Japan. cultivar: Ike 26.
locality: Tohoku. Cultivar. Seed.
- PI 506775 donor id: NIAR 040600. origin: Japan. cultivar: Ike 27.
locality: Tohoku. Cultivar. Seed.
- PI 506776 donor id: NIAR 040342. origin: Japan. cultivar: Ike
Daizu. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506777 donor id: NIAR 020701. origin: Japan. cultivar: Ikki.
locality: Tohoku. Cultivar. Seed.
- PI 506778 donor id: NIAR 040939. origin: Japan. cultivar: Ina
Zairai (Nori Mame). locality: Kanto and Tosan.
Cultivar. Seed.
- PI 506779 donor id: NIAR 040744. origin: Japan. cultivar: Inasato
Zairai II. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506780 donor id: NIAR 040571. origin: Japan. cultivar: Inasato
Zairai (3). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506781 donor id: NIAR 040311. origin: Japan. cultivar: Ippon
Suzunari. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506782 donor id: NIAR 000019. origin: Japan. cultivar:
Ipponsou. Cultivar. Seed.
- PI 506783 donor id: NIAR 020490. origin: Japan. cultivar: Irazu
(Yamagata). locality: Tohoku. Cultivar. Seed.
- PI 506784 donor id: NIAR 040309. origin: Japan. cultivar: Ishi
Kei 131. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506785 donor id: NIAR 020401. origin: Japan. cultivar: Ishii
Wase. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506786 donor id: NIAR 030071. origin: Japan. cultivar:
Ishitsutsumi. locality: Hokuriku. Cultivar. Seed.
- PI 506787 donor id: NIAR 040766. origin: Japan. cultivar: Itachi.
locality: Kanto and Tosan. Cultivar. Seed.
- PI 506788 donor id: NIAR 020680. origin: Japan. cultivar: Itachi.
locality: Tohoku. Cultivar. Seed.
- PI 506789 donor id: NIAR 020502. origin: Japan. cultivar:
Itsutsuba. locality: Tohoku. Cultivar. Seed.
- PI 506790 donor id: NIAR 020693. origin: Japan. cultivar:
Itsutsuba (Yamagata). locality: Tohoku. Cultivar.
Seed.
- PI 506791 donor id: NIAR 020629. origin: Japan. cultivar: Iwa A
1. locality: Tohoku. Cultivar. Seed.
- PI 506792 donor id: NIAR 020630. origin: Japan. cultivar: Iwa A
2. locality: Tohoku. Cultivar. Seed.
- PI 506793 donor id: NIAR 020631. origin: Japan. cultivar: Iwa A
4. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506794 donor id: NIAR 020622. origin: Japan. cultivar: Iwa A-3 (Murasaki Bana). locality: Tohoku. Cultivar. Seed.
- PI 506795 donor id: NIAR 020623. origin: Japan. cultivar: Iwa A-3 (Shiro Bana). locality: Tohoku. Cultivar. Seed.
- PI 506796 donor id: NIAR 040817. origin: Japan. cultivar: Iwa Hachi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506797 donor id: NIAR 020621. origin: Japan. cultivar: Iwahin Hitashi 1. locality: Tohoku. Cultivar. Seed.
- PI 506798 donor id: NIAR 020628. origin: Japan. cultivar: Iwahin Hitashi 2. locality: Tohoku. Cultivar. Seed.
- PI 506799 donor id: NIAR 020640. origin: Japan. cultivar: Iwahin Kuro 1. locality: Tohoku. Cultivar. Seed.
- PI 506800 donor id: NIAR 020641. origin: Japan. cultivar: Iwahin Kuro 2. locality: Tohoku. Cultivar. Seed.
- PI 506801 donor id: NIAR 020642. origin: Japan. cultivar: Iwahin Kuro 4. locality: Tohoku. Cultivar. Seed.
- PI 506802 donor id: NIAR 020684. origin: Japan. cultivar: Iwahin Kuro 5. locality: Tohoku. Cultivar. Seed.
- PI 506803 donor id: NIAR 040865. origin: Japan. cultivar: Iwajiro 21 F 42. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506804 donor id: NIAR 040813. origin: Japan. cultivar: Iwamura San. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506805 donor id: NIAR 040696. origin: Japan. cultivar: Iwate Aka Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506806 donor id: NIAR 020541. origin: Japan. cultivar: Iwate Oodama. locality: Tohoku. Cultivar. Seed.
- PI 506807 donor id: NIAR 020655. origin: Japan. cultivar: Iwate Toukichi. locality: Tohoku. Cultivar. Seed.
- PI 506808 donor id: NIAR 020578. origin: Japan. cultivar: Iwate Wase Kurome. locality: Tohoku. Cultivar. Seed.
- PI 506809 donor id: NIAR 020579. origin: Japan. cultivar: Iwate Wase Kurome (Bunri). locality: Tohoku. Cultivar. Seed.
- PI 506810 donor id: NIAR 020145. origin: Japan. cultivar: Iyo Aogari. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506811 donor id: NIAR 020547. origin: Japan. cultivar: Iyo Daizu. locality: Tohoku. Cultivar. Seed.
- PI 506812 donor id: NIAR 090145. origin: Japan. cultivar: Izari 34. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506813 donor id: NIAR 090218. origin: Japan. cultivar: Izumi. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506814 donor id: NIAR 040751. origin: Japan. cultivar: Izumidasan. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506815 donor id: NIAR 040801. origin: Japan. cultivar: Jouan Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506816 donor id: NIAR 020690. origin: Japan. cultivar: Jouhouji Zairai-shu. locality: Tohoku. Cultivar. Seed.
- PI 506817 donor id: NIAR 030010. origin: Japan. cultivar: Kage Mame. locality: Hokuriku. Cultivar. Seed.
- PI 506818 donor id: NIAR 040772. origin: Japan. cultivar: Kagoshima Natsu Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506819 donor id: NIAR 060091. origin: Japan. cultivar: Kaifuu Gyuumou Ou 2. locality: Kinki. Cultivar. Seed.
- PI 506820 donor id: NIAR 060084. origin: Japan. cultivar: Kaifuu Seitou. locality: Kinki. Cultivar. Seed.
- PI 506821 donor id: NIAR 030083. origin: Japan. cultivar: Kaigen Hakka. locality: Hokuriku. Cultivar. Seed.
- PI 506822 donor id: NIAR 040188. origin: Japan. cultivar: Kairyō Aisa. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506823 donor id: NIAR 090201. origin: Japan. cultivar: Kairyō Kimusume. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506824 donor id: NIAR 090180. origin: Japan. cultivar: Kairyō Shirome. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506825 donor id: NIAR 040223. origin: Japan. cultivar: Kaki Hadaka. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506826 donor id: NIAR 040815. origin: Japan. cultivar: Kakihei Zairai 7. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506827 donor id: NIAR 020551. origin: Japan. cultivar: Kakushin 2. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506828 donor id: NIAR 040646. origin: Japan. cultivar: Kamifukuzawa Zairai (2). locality: Tohoku. Cultivar. Seed.
- PI 506829 donor id: NIAR 040355. origin: Japan. cultivar: Kamihisakata Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506830 donor id: NIAR 041028. origin: Japan. cultivar: Kamiwa. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506831 donor id: NIAR 040279. origin: Japan. cultivar: Kamiwashita Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506832 donor id: NIAR 090181. origin: Japan. cultivar: Kanagawa Wase. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506833 donor id: NIAR 060086. origin: Japan. cultivar: Kanan 66 Daizu-1. locality: Kinki. Cultivar. Seed.
- PI 506834 donor id: NIAR 060088. origin: Japan. cultivar: Kanan Seitou 76-1. locality: Kinki. Cultivar. Seed.
- PI 506835 donor id: NIAR 040628. origin: Japan. cultivar: Kanbayashi Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506836 donor id: NIAR 040725. origin: Japan. cultivar: Kantou 6. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506837 donor id: NIAR 040138. origin: Japan. cultivar: Kantou 7. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506838 donor id: NIAR 041020. origin: Japan. cultivar: Kantou 7. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506839 donor id: NIAR 040139. origin: Japan. cultivar: Kantou 8. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506840 donor id: NIAR 040140. origin: Japan. cultivar: Kantou 9. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506841 donor id: NIAR 040144. origin: Japan. cultivar: Kantou 14. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506842 donor id: NIAR 040145. origin: Japan. cultivar: Kantou 16. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506843 donor id: NIAR 040150. origin: Japan. cultivar: Kantou 30. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506844 donor id: NIAR 040154. origin: Japan. cultivar: Kantou 40. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506845 donor id: NIAR 040291. origin: Japan. cultivar: Kantou 43. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506846 donor id: NIAR 040292. origin: Japan. cultivar: Kantou 44. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506847 donor id: NIAR 041025. origin: Japan. cultivar: Kantou 50. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506848 donor id: NIAR 040299. origin: Japan. cultivar: Kantou 55. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506849 donor id: NIAR 040300. origin: Japan. cultivar: Kantou 56. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506850 donor id: NIAR 040557. origin: Japan. cultivar: Kantou 58. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506851 donor id: NIAR 040302. origin: Japan. cultivar: Kantou 59. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506852 donor id: NIAR 040303. origin: Japan. cultivar: Kantou 60. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506853 donor id: NIAR 040304. origin: Japan. cultivar: Kantou 61. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506854 donor id: NIAR 040305. origin: Japan. cultivar: Kantou 62. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506855 donor id: NIAR 040307. origin: Japan. cultivar: Kantou 64. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506856 donor id: NIAR 040308. origin: Japan. cultivar: Kantou 65. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506857 donor id: NIAR 040787. origin: Japan. cultivar: Kara Shirazu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506858 donor id: NIAR 040288. origin: Japan. cultivar: Kariha Takiya. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506859 donor id: NIAR 030102. origin: Japan. cultivar: Kariha Takiya. locality: Hokuriku. Cultivar. Seed.
- PI 506860 donor id: NIAR 020458. origin: Japan. cultivar: Kariha Takiya 28. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506861 donor id: NIAR 010015. origin: Japan. cultivar: Karikachi. locality: Hokkaido. Cultivar. Seed.
- PI 506862 donor id: NIAR 020718. origin: Japan. cultivar: Karikei 86. locality: Tohoku. Cultivar. Seed.
- PI 506863 donor id: NIAR 020573. origin: Japan. cultivar: Karikei 35. locality: Tohoku. Cultivar. Seed.
- PI 506864 donor id: NIAR 020710. origin: Japan. cultivar: Karikei 80. locality: Tohoku. Cultivar. Seed.
- PI 506865 donor id: NIAR 020711. origin: Japan. cultivar: Karikei 82. locality: Tohoku. Cultivar. Seed.
- PI 506866 donor id: NIAR 020728. origin: Japan. cultivar: Karikei 102. locality: Tohoku. Cultivar. Seed.
- PI 506867 donor id: NIAR 020735. origin: Japan. cultivar: Karikei 112. locality: Tohoku. Cultivar. Seed.
- PI 506868 donor id: NIAR 020736. origin: Japan. cultivar: Karikei 129. locality: Tohoku. Cultivar. Seed.
- PI 506869 donor id: NIAR 020737. origin: Japan. cultivar: Karikei 179. locality: Tohoku. Cultivar. Seed.
- PI 506870 donor id: NIAR 020689. origin: Japan. cultivar: Karumai. locality: Tohoku. Cultivar. Seed.
- PI 506871 donor id: NIAR 020130. origin: Japan. cultivar: Kashimadai Zairaishu. locality: Tohoku. Cultivar. Seed.
- PI 506872 donor id: NIAR 040247. origin: Japan. cultivar: Katsura Kouden. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506873 donor id: NIAR 040773. origin: Japan. cultivar: Kawamasan (B). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506874 donor id: NIAR 040790. origin: Japan. cultivar: Kawanagare. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506875 donor id: NIAR 020431. origin: Japan. cultivar: Kazunoko Mame. locality: Tohoku. Cultivar. Seed.
- PI 506876 donor id: NIAR 041037. origin: Japan. cultivar: Keburi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506877 donor id: NIAR 040692. origin: Japan. cultivar: Keihan Daizu. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506878 donor id: NIAR 020673. origin: Japan. cultivar: Keitou Daizu. locality: Tohoku. Cultivar. Seed.
- PI 506879 donor id: NIAR 090233. origin: Japan. cultivar: Kihiro. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506880 donor id: NIAR 090221. origin: Japan. cultivar: Kikuchi Nou 13. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506881 donor id: NIAR 030064. origin: Japan. cultivar: Kimusume. locality: Hokuriku. Cultivar. Seed.
- PI 506882 donor id: NIAR 040451. origin: Japan. cultivar: Kimusume Ibaraki 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506883 donor id: NIAR 040232. origin: Japan. cultivar: Kinako Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506884 donor id: NIAR 040970. origin: Japan. cultivar: Kinako Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506885 donor id: NIAR 020697. origin: Japan. cultivar: Kinako Mame. locality: Tohoku. Cultivar. Seed.
- PI 506886 donor id: NIAR 030005. origin: Japan. cultivar: Kinako Mame (Zairai). locality: Hokuriku. Cultivar. Seed.
- PI 506887 donor id: NIAR 040767. origin: Japan. cultivar: Kinbee. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506888 donor id: NIAR 040566. origin: Japan. cultivar: Kinkazan. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506889 donor id: NIAR 090160. origin: Japan. cultivar: Kinmon Daizu. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506890 donor id: NIAR 020543. origin: Japan. cultivar: Kinnari 1. locality: Tohoku. Cultivar. Seed.
- PI 506891 donor id: NIAR 020435. origin: Japan. cultivar: Kinoshita 3. locality: Tohoku. Cultivar. Seed.
- PI 506892 donor id: NIAR 020535. origin: Japan. cultivar: Kinoshita Mame. locality: Tohoku. Cultivar. Seed.
- PI 506893 donor id: NIAR 040506. origin: Japan. cultivar: Kinoshita Mame. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506894 donor id: NIAR 040538. origin: Japan. cultivar: Kinoshita Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506895 donor id: NIAR 010091. origin: Japan. cultivar: Kitahomare. locality: Hokkaido. Cultivar. Seed.
- PI 506896 donor id: NIAR 040729. origin: Japan. cultivar: Kitajiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506897 donor id: NIAR 020688. origin: Japan. cultivar: Kitajiro 54. locality: Tohoku. Cultivar. Seed.
- PI 506898 donor id: NIAR 010034. origin: Japan. cultivar: Kitami Shiro. locality: Hokkaido. Cultivar. Seed.
- PI 506899 donor id: NIAR 040755. origin: Japan. cultivar: Kitami Shiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506900 donor id: NIAR 010067. origin: Japan. cultivar: Kitamusume. locality: Hokkaido. Cultivar. Seed.
- PI 506901 donor id: NIAR 010087. origin: Japan. cultivar: Kitamusume. locality: Hokkaido. Cultivar. Seed.
- PI 506902 donor id: NIAR 060066. origin: Japan. cultivar: Kitatominaga. locality: Kinki. Cultivar. Seed.
- PI 506903 donor id: NIAR 020594. origin: Japan. cultivar: Kizukuri Zairai. locality: Tohoku. Cultivar. Seed.
- PI 506904 donor id: NIAR 070033. origin: Japan. cultivar: Ko Daizu. locality: Shikoku. Cultivar. Seed.
- PI 506905 donor id: NIAR 020558. origin: Japan. cultivar: Ko Hachigatsu 14. locality: Tohoku. Cultivar. Seed.
- PI 506906 donor id: NIAR 040475. origin: Japan. cultivar: Ko Hachigatsu 14. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506907 donor id: NIAR 040859. origin: Japan. cultivar: Kobamaki Zairai (Y). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506908 donor id: NIAR 050013. origin: Japan. cultivar: Kodane. locality: Tokai. Cultivar. Seed.
- PI 506909 donor id: NIAR 090150. origin: Japan. cultivar: Kogane Daizu. locality: Kyushu and Okinawa. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506910 donor id: NIAR 040360. origin: Japan. cultivar: Koguro Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506911 donor id: NIAR 020660. origin: Japan. cultivar: Kohachigatsu 14. locality: Tohoku. Cultivar. Seed.
- PI 506912 donor id: NIAR 040791. origin: Japan. cultivar: Koibuchimura Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506913 donor id: NIAR 040047. origin: Japan. cultivar: Kokasa Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506914 donor id: NIAR 060116. origin: Japan. cultivar: Kokubu 7. locality: Kinki. Cultivar. Seed.
- PI 506915 donor id: NIAR 040992. origin: Japan. cultivar: Komamaki Zairai (Kuro). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506916 donor id: NIAR 040515. origin: Japan. cultivar: Komame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506917 donor id: NIAR 020600. origin: Japan. cultivar: Kongou. locality: Tohoku. Cultivar. Seed.
- PI 506918 donor id: NIAR 040803. origin: Japan. cultivar: Kongou Shouryou. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506919 donor id: NIAR 040804. origin: Japan. cultivar: Kongou Tairyuu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506920 donor id: NIAR 010046. origin: Japan. cultivar: Koran 1. locality: Hokkaido. Cultivar. Seed.
- PI 506921 donor id: NIAR 040836. origin: Japan. cultivar: Kosa Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506922 donor id: NIAR 040837. origin: Japan. cultivar: Kosa Shirazu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506923 donor id: NIAR 020326. origin: Japan. cultivar: Kosaka Zairai (Katsubeso). locality: Tohoku. Cultivar. Seed.
- PI 506924 donor id: NIAR 020513. origin: Japan. cultivar: Kosaka Zairai (Kurobeso). locality: Tohoku. Cultivar. Seed.
- PI 506925 donor id: NIAR 010073. origin: Japan. cultivar: Kosodefuri. locality: Hokkaido. Cultivar. Seed.
- PI 506926 donor id: NIAR 040841. origin: Japan. cultivar: Kotakeshu. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506927 donor id: NIAR 020457. origin: Japan. cultivar: Kou 4.
locality: Tohoku. Cultivar. Seed.
- PI 506928 donor id: NIAR 040482. origin: Japan. cultivar: Kou 66.
locality: Kanto and Tosan. Cultivar. Seed.
- PI 506929 donor id: NIAR 040761. origin: Japan. cultivar: Kou
235. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506930 donor id: NIAR 020703. origin: Japan. cultivar: Kou
262. locality: Tohoku. Cultivar. Seed.
- PI 506931 donor id: NIAR 020122. origin: Japan. cultivar: Kouhai.
locality: Tohoku. Cultivar. Seed.
- PI 506932 donor id: NIAR 090166. origin: Japan. cultivar: Kouiku
1. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506933 donor id: NIAR 090187. origin: Japan. cultivar: Kouiku
1. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506934 donor id: NIAR 040172. origin: Japan. cultivar: Kouji
Irazu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506935 donor id: NIAR 020539. origin: Japan. cultivar: Kouji
Irazu. locality: Tohoku. Cultivar. Seed.
- PI 506936 donor id: NIAR 020562. origin: Japan. cultivar: Kouji
Irazu 4. locality: Tohoku. Cultivar. Seed.
- PI 506937 donor id: NIAR 020656. origin: Japan. cultivar: Kouji
Shirazu. locality: Tohoku. Cultivar. Seed.
- PI 506938 donor id: NIAR 090164. origin: Japan. cultivar: Koukei
86. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506939 donor id: NIAR 090165. origin: Japan. cultivar: Koukei
202. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506940 donor id: NIAR 020559. origin: Japan. cultivar: Kounou
2. locality: Tohoku. Cultivar. Seed.
- PI 506941 donor id: NIAR 020038. origin: Japan. cultivar:
Koushoku Daizu. locality: Tohoku. Cultivar. Seed.
- PI 506942 donor id: NIAR 020016. origin: Japan. cultivar:
Koushurei 235. locality: Tohoku. Cultivar. Seed.
- PI 506943 donor id: NIAR 030062. origin: Japan. cultivar:
Koushurei 555. locality: Hokuriku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506944 donor id: NIAR 040796. origin: Japan. cultivar: Koushuu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506945 donor id: NIAR 040472. origin: Japan. cultivar: Koutoku. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506946 donor id: NIAR 070026. origin: Japan. cultivar: Kuma Daizu. locality: Shikoku. Cultivar. Seed.
- PI 506947 donor id: NIAR 090223. origin: Japan. cultivar: Kumaji 2. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 506948 donor id: NIAR 040858. origin: Japan. cultivar: Kurakake. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506949 donor id: NIAR 040265. origin: Japan. cultivar: Kurakake Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506950 donor id: NIAR 040359. origin: Japan. cultivar: Kurashina Bansei Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506951 donor id: NIAR 040792. origin: Japan. cultivar: Kuratate Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506952 donor id: NIAR 040658. origin: Japan. cultivar: Kuro Chouhin 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506953 donor id: NIAR 040659. origin: Japan. cultivar: Kuro Chouhin 2. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506954 donor id: NIAR 040660. origin: Japan. cultivar: Kuro Chouhin 3. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506955 donor id: NIAR 040661. origin: Japan. cultivar: Kuro Chouhin 4. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506956 donor id: NIAR 040662. origin: Japan. cultivar: Kuro Chouhin 5. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506957 donor id: NIAR 040663. origin: Japan. cultivar: Kuro Chouhin 6. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506958 donor id: NIAR 040664. origin: Japan. cultivar: Kuro Chouhin 7. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506959 donor id: NIAR 040665. origin: Japan. cultivar: Kuro Chouhin 8. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506960 donor id: NIAR 040666. origin: Japan. cultivar: Kuro Chouhin 9. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506961 donor id: NIAR 040667. origin: Japan. cultivar: Kuro Chouhin 10. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506962 donor id: NIAR 040668. origin: Japan. cultivar: Kuro Chouhin 11. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506963 donor id: NIAR 040669. origin: Japan. cultivar: Kuro Chouhin 12. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506964 donor id: NIAR 040670. origin: Japan. cultivar: Kuro Chouhin 13. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506965 donor id: NIAR 040671. origin: Japan. cultivar: Kuro Chouhin 14. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506966 donor id: NIAR 040672. origin: Japan. cultivar: Kuro Chouhin 15. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506967 donor id: NIAR 040673. origin: Japan. cultivar: Kuro Chouhin 17. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506968 donor id: NIAR 040674. origin: Japan. cultivar: Kuro Chouhin 18. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506969 donor id: NIAR 040675. origin: Japan. cultivar: Kuro Chouhin 19. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506970 donor id: NIAR 040676. origin: Japan. cultivar: Kuro Chouhin 20. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506971 donor id: NIAR 040677. origin: Japan. cultivar: Kuro Chouhin 21. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506972 donor id: NIAR 040678. origin: Japan. cultivar: Kuro Chouhin 22. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506973 donor id: NIAR 040679. origin: Japan. cultivar: Kuro Chouhin 23A. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506974 donor id: NIAR 040680. origin: Japan. cultivar: Kuro Chouhin 23B. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506975 donor id: NIAR 040681. origin: Japan. cultivar: Kuro Chouhin 24. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506976 donor id: NIAR 040682. origin: Japan. cultivar: Kuro Chouhin 25. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 506977 **donor id:** NIAR 040683. **origin:** Japan. **cultivar:** Kuro Chouhin 27. **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506978 **donor id:** NIAR 040684. **origin:** Japan. **cultivar:** Kuro Chouhin 28. **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506979 **donor id:** NIAR 041052. **origin:** Japan. **cultivar:** Kuro Chouhin 29(G). **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506980 **donor id:** NIAR 041011. **origin:** Japan. **cultivar:** Kuro Chouhin 29(Y). **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506981 **donor id:** NIAR 041012. **origin:** Japan. **cultivar:** Kuro Chouhin 30. **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506982 **donor id:** NIAR 020638. **origin:** Japan. **cultivar:** Kuro Chouhin 31. **locality:** Tohoku. **Cultivar.** Seed.
- PI 506983 **donor id:** NIAR 020639. **origin:** Japan. **cultivar:** Kuro Chouhin 32. **locality:** Tohoku. **Cultivar.** Seed.
- PI 506984 **donor id:** NIAR 041013. **origin:** Japan. **cultivar:** Kuro Chouhin 33. **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506985 **donor id:** NIAR 041014. **origin:** Japan. **cultivar:** Kuro Chouhin 34. **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506986 **donor id:** NIAR 040800. **origin:** Japan. **cultivar:** Kuro Daizu. **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506987 **donor id:** NIAR 020644. **origin:** Japan. **cultivar:** Kuro Daizu. **locality:** Tohoku. **Cultivar.** Seed.
- PI 506988 **donor id:** NIAR 041010. **origin:** Japan. **cultivar:** Kuro Daizu 2 (Tochigi). **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506989 **donor id:** NIAR 040987. **origin:** Japan. **cultivar:** Kuro Daizu (Ishioka 45). **locality:** Kanto and Tosan. **Cultivar.** Seed.
- PI 506990 **donor id:** NIAR 080028. **origin:** Japan. **cultivar:** Kuro Daizu (Okayama). **locality:** Chugoku. **Cultivar.** Seed.
- PI 506991 **donor id:** NIAR 040990. **origin:** Japan. **cultivar:** Kuro Hitashimame. **locality:** Kanto and Tosan. **Cultivar.** Seed.

PI 506471 to 507579-continued

- PI 506992 donor id: NIAR 040988. origin: Japan. cultivar: Kuro Mame (Nagano). locality: Kanto and Tosan. Cultivar. Seed.
- PI 506993 donor id: NIAR 020445. origin: Japan. cultivar: Kuro Mame (Yamagata). locality: Tohoku. Cultivar. Seed.
- PI 506994 donor id: NIAR 040479. origin: Japan. cultivar: Kuro Sengoku. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506995 donor id: NIAR 020444. origin: Japan. cultivar: Kuro Tairyuu Daizu. locality: Tohoku. Cultivar. Seed.
- PI 506996 donor id: NIAR 020634. origin: Japan. cultivar: Kurohira. locality: Tohoku. Cultivar. Seed.
- PI 506997 donor id: NIAR 020319. origin: Japan. cultivar: Kurosaya. locality: Tohoku. Cultivar. Seed.
- PI 506998 donor id: NIAR 040748. origin: Japan. cultivar: Kurosaya. locality: Kanto and Tosan. Cultivar. Seed.
- PI 506999 donor id: NIAR 040757. origin: Japan. cultivar: Kurosaya (Ishioka). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507000 donor id: NIAR 020393. origin: Japan. cultivar: Kurotome. locality: Tohoku. Cultivar. Seed.
- PI 507001 donor id: NIAR 040756. origin: Japan. cultivar: Kurozaya Sanbongi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507002 donor id: NIAR 090205. origin: Japan. cultivar: Kyuushuu 13. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507003 donor id: NIAR 090112. origin: Japan. cultivar: Kyuushuu 18. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507004 donor id: NIAR 090206. origin: Japan. cultivar: Kyuushuu 33. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507005 donor id: NIAR 090207. origin: Japan. cultivar: Kyuushuu 35. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507006 donor id: NIAR 090208. origin: Japan. cultivar: Kyuushuu 38. locality: Kyushu and Okinawa. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507007 donor id: NIAR 090209. origin: Japan. cultivar: Kyuushuu 39. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507008 donor id: NIAR 090210. origin: Japan. cultivar: Kyuushuu 41. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507009 donor id: NIAR 090211. origin: Japan. cultivar: Kyuushuu 43. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507010 donor id: NIAR 090212. origin: Japan. cultivar: Kyuushuu 45. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507011 donor id: NIAR 090213. origin: Japan. cultivar: Kyuushuu 50. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507012 donor id: NIAR 090214. origin: Japan. cultivar: Kyuushuu 51. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507013 donor id: NIAR 090215. origin: Japan. cultivar: Kyuushuu 57. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507014 donor id: NIAR 090216. origin: Japan. cultivar: Kyuushuu 58. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507015 donor id: NIAR 010060. origin: Japan. cultivar: M-I. locality: Hokkaido. Cultivar. Seed.
- PI 507016 donor id: NIAR 010061. origin: Japan. cultivar: M-S. locality: Hokkaido. Cultivar. Seed.
- PI 507017 donor id: NIAR 041033. origin: Japan. cultivar: Madara Ooha Tsuru Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507018 donor id: NIAR 040701. origin: Japan. cultivar: Maedamura Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507019 donor id: NIAR 040708. origin: Japan. cultivar: Majison Nishiki. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507020 donor id: NIAR 040656. origin: Japan. cultivar: Mansei Ouhakushu. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507021 donor id: NIAR 040776. origin: Japan. cultivar: Manshuu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507022 donor id: NIAR 020645. origin: Japan. cultivar: Manshuu Gata B. locality: Tohoku. Cultivar. Seed.
- PI 507023 donor id: NIAR 090189. origin: Japan. cultivar: Manshuu Kuro Sengoku. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507024 donor id: NIAR 090171. origin: Japan. cultivar: Manshuu Massyokutou. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507025 donor id: NIAR 010078. origin: Japan. cultivar: Manshuu Midori Meaka. locality: Hokkaido. Cultivar. Seed.
- PI 507026 donor id: NIAR 020643. origin: Japan. cultivar: Maru Kotsubu. locality: Tohoku. Cultivar. Seed.
- PI 507027 donor id: NIAR 020587. origin: Japan. cultivar: Masshoku Mame (Kou 504). locality: Tohoku. Cultivar. Seed.
- PI 507028 donor id: NIAR 020055. origin: Japan. cultivar: Masuyama. locality: Tohoku. Cultivar. Seed.
- PI 507029 donor id: NIAR 090014. origin: Japan. cultivar: Meguro. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507030 donor id: NIAR 040758. origin: Japan. cultivar: Meguro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507031 donor id: NIAR 040588. origin: Japan. cultivar: Meigetsu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507032 donor id: NIAR 020344. origin: Japan. cultivar: Meigetsu Mame. locality: Tohoku. Cultivar. Seed.
- PI 507033 donor id: NIAR 040569. origin: Japan. cultivar: Mejiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507034 donor id: NIAR 040528. origin: Japan. cultivar: Menashi Akasaya. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507035 donor id: NIAR 070023. origin: Japan. cultivar: Menka Daizu. locality: Shikoku. Cultivar. Seed.
- PI 507036 donor id: NIAR 040589. origin: Japan. cultivar: Mennai Zairai. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507037 donor id: NIAR 040584. origin: Japan. cultivar: Mibu Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507038 donor id: NIAR 040693. origin: Japan. cultivar: Mikawashima (Edamame). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507039 donor id: NIAR 070030. origin: Japan. cultivar: Mikuni. locality: Shikoku. Cultivar. Seed.
- PI 507040 donor id: NIAR 050010. origin: Japan. cultivar: Mikuriya Ao. locality: Tokai. Cultivar. Seed.
- PI 507041 donor id: NIAR 050014. origin: Japan. cultivar: Mikuriya Shiro. locality: Tokai. Cultivar. Seed.
- PI 507042 donor id: NIAR 040650. origin: Japan. cultivar: Mino Ryokucha Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507043 donor id: NIAR 080033. origin: Japan. cultivar: Mino Ryokucha Daizu. locality: Chugoku. Cultivar. Seed.
- PI 507044 donor id: NIAR 040940. origin: Japan. cultivar: Misato Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507045 donor id: NIAR 040567. origin: Japan. cultivar: Misuzu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507046 donor id: NIAR 090222. origin: Japan. cultivar: Mitama. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507047 donor id: NIAR 040812. origin: Japan. cultivar: Mitsu Buto. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507048 donor id: NIAR 040590. origin: Japan. cultivar: Mitsu Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507049 donor id: NIAR 020617. origin: Japan. cultivar: Mitsu Mame. locality: Tohoku. Cultivar. Seed.
- PI 507050 donor id: NIAR 020413. origin: Japan. cultivar: Mitsu Mame (A). locality: Tohoku. Cultivar. Seed.
- PI 507051 donor id: NIAR 020507. origin: Japan. cultivar: Mitsuba. locality: Tohoku. Cultivar. Seed.
- PI 507052 donor id: NIAR 040280. origin: Japan. cultivar: Miyahara Zairai. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507053 donor id: NIAR 040802. origin: Japan. cultivar: Mizuhara 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507054 donor id: NIAR 040775. origin: Japan. cultivar: Mizukuguri (Wase). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507055 donor id: NIAR 020474. origin: Japan. cultivar: Mochi Mame. locality: Tohoku. Cultivar. Seed.
- PI 507056 donor id: NIAR 020555. origin: Japan. cultivar: Mochi Mame. locality: Tohoku. Cultivar. Seed.
- PI 507057 donor id: NIAR 040823. origin: Japan. cultivar: Mochiderakei. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507058 donor id: NIAR 040846. origin: Japan. cultivar: Mochiderakei (Shirome). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507059 donor id: NIAR 020135. origin: Japan. cultivar: Mumei. locality: Tohoku. Cultivar. Seed.
- PI 507060 donor id: NIAR 040774. origin: Japan. cultivar: Mushi Shirazu (1). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507061 donor id: NIAR 020252. origin: Japan. cultivar: N-B. locality: Tohoku. Cultivar. Seed.
- PI 507062 donor id: NIAR 020251. origin: Japan. cultivar: N-B(B). locality: Tohoku. Cultivar. Seed.
- PI 507063 donor id: NIAR 020256. origin: Japan. cultivar: N-B(C). locality: Tohoku. Cultivar. Seed.
- PI 507064 donor id: NIAR 020257. origin: Japan. cultivar: N-B(D). locality: Tohoku. Cultivar. Seed.
- PI 507065 donor id: NIAR 020259. origin: Japan. cultivar: N-B (Katsuge). locality: Tohoku. Cultivar. Seed.
- PI 507066 donor id: NIAR 020261. origin: Japan. cultivar: N-B (Katsuge). locality: Tohoku. Cultivar. Seed.
- PI 507067 donor id: NIAR 040503. origin: Japan. cultivar: Nagano 7. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507068 donor id: NIAR 090138. origin: Japan. cultivar: Nagano Zairai (Yamaguchi). locality: Kyushu and Okinawa. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507069 donor id: NIAR 040352. origin: Japan. cultivar: Nagaoka. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507070 donor id: NIAR 040254. origin: Japan. cultivar: Nagaoka Tairyuu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507071 donor id: NIAR 020247. origin: Japan. cultivar: Naichigata. locality: Tohoku. Cultivar. Seed.
- PI 507072 donor id: NIAR 020253. origin: Japan. cultivar: Naichigata B. locality: Tohoku. Cultivar. Seed.
- PI 507073 donor id: NIAR 020027. origin: Japan. cultivar: Nakaide. locality: Tohoku. Cultivar. Seed.
- PI 507074 donor id: NIAR 041043. origin: Japan. cultivar: Nakajou Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507075 donor id: NIAR 060113. origin: Japan. cultivar: Nakakitaou. locality: Kinki. Cultivar. Seed.
- PI 507076 donor id: NIAR 040854. origin: Japan. cultivar: Nakano Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507077 donor id: NIAR 040833. origin: Japan. cultivar: Nakasato Zairai (C). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507078 donor id: NIAR 040834. origin: Japan. cultivar: Nakasato Zairai (E). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507079 donor id: NIAR 041103. origin: Japan. cultivar: Nakasennari. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507080 donor id: NIAR 010077. origin: Japan. cultivar: Nakate Hadaka. locality: Hokkaido. Cultivar. Seed.
- PI 507081 donor id: NIAR 020657. origin: Japan. cultivar: Nakayama Mame. locality: Tohoku. Cultivar. Seed.
- PI 507082 donor id: NIAR 020357. origin: Japan. cultivar: Nanbu. locality: Tohoku. Cultivar. Seed.
- PI 507083 donor id: NIAR 020568. origin: Japan. cultivar: Nangun Takedate. locality: Tohoku. Cultivar. Seed.
- PI 507084 donor id: NIAR 030052. origin: Japan. cultivar: Nangyo Zairai. locality: Hokuriku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507085 donor id: NIAR 060118. origin: Japan. cultivar: Narisuke. locality: Kinki. Cultivar. Seed.
- PI 507086 donor id: NIAR 040686. origin: Japan. cultivar: Nasu Shirome. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507087 donor id: NIAR 040465. origin: Japan. cultivar: Natsudaizu Kimusume. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507088 donor id: NIAR 041077. origin: Japan. cultivar: Nattou Kotsubu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507089 donor id: NIAR 020719. origin: Japan. cultivar: Nattou Mame. locality: Tohoku. Cultivar. Seed.
- PI 507090 donor id: NIAR 040781. origin: Japan. cultivar: Nezumi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507091 donor id: NIAR 040783. origin: Japan. cultivar: Nezumi Saya 3. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507092 donor id: NIAR 041041. origin: Japan. cultivar: Nichiren. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507093 donor id: NIAR 020725. origin: Japan. cultivar: Ninohe Zairai. locality: Tohoku. Cultivar. Seed.
- PI 507094 donor id: NIAR 041039. origin: Japan. cultivar: Ninomiya. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507095 donor id: NIAR 020664. origin: Japan. cultivar: Nioi Mame. locality: Tohoku. Cultivar. Seed.
- PI 507096 donor id: NIAR 040863. origin: Japan. cultivar: Nishikinsan Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507097 donor id: NIAR 020216. origin: Japan. cultivar: Nishitsugaru Zairaishu. locality: Tohoku. Cultivar. Seed.
- PI 507098 donor id: NIAR 040564. origin: Japan. cultivar: Nitchoo 47. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507099 donor id: NIAR 020614. origin: Japan. cultivar: Niwa Mame. locality: Tohoku. Cultivar. Seed.
- PI 507100 donor id: NIAR 040432. origin: Japan. cultivar: Nonse Mouse. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507101 donor id: NIAR 030015. origin: Japan. cultivar: Nonsemond. locality: Hokuriku. Cultivar. Seed.
- PI 507102 donor id: NIAR 040848. origin: Japan. cultivar: Nori Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507103 donor id: NIAR 020566. origin: Japan. cultivar: Nouken 5. locality: Tohoku. Cultivar. Seed.
- PI 507104 donor id: NIAR 020581. origin: Japan. cultivar: Nouken 5. locality: Tohoku. Cultivar. Seed.
- PI 507105 donor id: NIAR 040345. origin: Japan. cultivar: Obikiri. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507106 donor id: NIAR 020345. origin: Japan. cultivar: Obonai Zairai. locality: Tohoku. Cultivar. Seed.
- PI 507107 donor id: NIAR 020687. origin: Japan. cultivar: Ode Zairai. locality: Tohoku. Cultivar. Seed.
- PI 507108 donor id: NIAR 040769. origin: Japan. cultivar: Ogasawara Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507109 donor id: NIAR 040944. origin: Japan. cultivar: Ogawa Zairai (1). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507110 donor id: NIAR 040936. origin: Japan. cultivar: Ogawa Zairai (2). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507111 donor id: NIAR 040972. origin: Japan. cultivar: Ogawa Zairai (3). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507112 donor id: NIAR 040973. origin: Japan. cultivar: Ogawa Zairai (4). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507113 donor id: NIAR 040974. origin: Japan. cultivar: Ogawa Zairai (5). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507114 donor id: NIAR 040975. origin: Japan. cultivar: Ogawa Zairai (6). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507115 donor id: NIAR 040945. origin: Japan. cultivar: Ogawa Zairai (7). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507116 donor id: NIAR 040976. origin: Japan. cultivar: Ogawa Zairai (10). locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507117 donor id: NIAR 040977. origin: Japan. cultivar: Ogawa Zairai (11). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507118 donor id: NIAR 040189. origin: Japan. cultivar: Ogura Aze Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507119 donor id: NIAR 040546. origin: Japan. cultivar: Ogura Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507120 donor id: NIAR 040573. origin: Japan. cultivar: Ogura Oodama Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507121 donor id: NIAR 020613. origin: Japan. cultivar: Oho Ibaraki. locality: Tohoku. Cultivar. Seed.
- PI 507122 donor id: NIAR 020618. origin: Japan. cultivar: Oho Mame. locality: Tohoku. Cultivar. Seed.
- PI 507123 donor id: NIAR 020054. origin: Japan. cultivar: Oiarukon. locality: Tohoku. Cultivar. Seed.
- PI 507124 donor id: NIAR 040750. origin: Japan. cultivar: Oiran. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507125 donor id: NIAR 040760. origin: Japan. cultivar: Oiranwase. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507126 donor id: NIAR 040012. origin: Japan. cultivar: Okatsu Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507127 donor id: NIAR 040509. origin: Japan. cultivar: Okatsu Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507128 donor id: NIAR 040281. origin: Japan. cultivar: Oku Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507129 donor id: NIAR 000016. origin: Japan. cultivar: Okuhara Wase 1. Cultivar. Seed.
- PI 507130 donor id: NIAR 020337. origin: Japan. cultivar: Okuzai 125-5-30-4-1. locality: Tohoku. Cultivar. Seed.
- PI 507131 donor id: NIAR 041054. origin: Japan. cultivar: Oni Hadaka 7. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507132 donor id: NIAR 040225. origin: Japan. cultivar: Oni Hadaka Sai 1. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507133 donor id: NIAR 090229. origin: Japan. cultivar: Oni Hadaka (1). locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507134 donor id: NIAR 020676. origin: Japan. cultivar: Oni Hadaka (Kounosu). locality: Tohoku. Cultivar. Seed.
- PI 507135 donor id: NIAR 040842. origin: Japan. cultivar: Oodama. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507136 donor id: NIAR 030099. origin: Japan. cultivar: Oohama Daizu. locality: Hokuriku. Cultivar. Seed.
- PI 507137 donor id: NIAR 040874. origin: Japan. cultivar: Ooho Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507138 donor id: NIAR 020488. origin: Japan. cultivar: Oojiro. locality: Tohoku. Cultivar. Seed.
- PI 507139 donor id: NIAR 040510. origin: Japan. cultivar: Oojiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507140 donor id: NIAR 041044. origin: Japan. cultivar: Oooka Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507141 donor id: NIAR 040806. origin: Japan. cultivar: Oosaka Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507142 donor id: NIAR 040870. origin: Japan. cultivar: Ooshika Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507143 donor id: NIAR 040938. origin: Japan. cultivar: Ooshika Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507144 donor id: NIAR 020360. origin: Japan. cultivar: Ootama. locality: Tohoku. Cultivar. Seed.
- PI 507145 donor id: NIAR 040501. origin: Japan. cultivar: Ootsuka. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507146 donor id: NIAR 090224. origin: Japan. cultivar: Ootsuura. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507147 donor id: NIAR 040218. origin: Japan. cultivar: Oraku Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507148 donor id: NIAR 040499. origin: Japan. cultivar: Orugibaru. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507149 donor id: NIAR 020289. origin: Japan. cultivar: Ou Kei 5. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507150 donor id: NIAR 020290. origin: Japan. cultivar: Ou Kei
6. locality: Tohoku. Cultivar. Seed.
- PI 507151 donor id: NIAR 020291. origin: Japan. cultivar: Ou Kei
7. locality: Tohoku. Cultivar. Seed.
- PI 507152 donor id: NIAR 020470. origin: Japan. cultivar: Ou Kei
9. locality: Tohoku. Cultivar. Seed.
- PI 507153 donor id: NIAR 020293. origin: Japan. cultivar: Ou Kei
15. locality: Tohoku. Cultivar. Seed.
- PI 507154 donor id: NIAR 040230. origin: Japan. cultivar: Ougi
Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507155 donor id: NIAR 040717. origin: Japan. cultivar:
Ouhouju. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507156 donor id: NIAR 030003. origin: Japan. cultivar: Oushoku
Aki Daizu. locality: Hokuriku. Cultivar. Seed.
- PI 507157 donor id: NIAR 030098. origin: Japan. cultivar: Oushoku
Natsu Daizu. locality: Hokuriku. Cultivar. Seed.
- PI 507158 donor id: NIAR 020469. origin: Japan. cultivar: Ouu 5.
locality: Tohoku. Cultivar. Seed.
- PI 507159 donor id: NIAR 020518. origin: Japan. cultivar: Ouu 5.
locality: Tohoku. Cultivar. Seed.
- PI 507160 donor id: NIAR 020282. origin: Japan. cultivar: Ouu 8.
locality: Tohoku. Cultivar. Seed.
- PI 507161 donor id: NIAR 040736. origin: Japan. cultivar:
Pakchong. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507162 donor id: NIAR 040425. origin: Japan. cultivar: Pine
Pu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507163 donor id: NIAR 040789. origin: Japan. cultivar: Potten
26. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507164 donor id: NIAR 020185. origin: Japan. cultivar:
Rankoshi 1. locality: Tohoku. Cultivar. Seed.
- PI 507165 donor id: NIAR 040470. origin: Japan. cultivar: Ransei.
locality: Kanto and Tosan. Cultivar. Seed.
- PI 507166 donor id: NIAR 040118. origin: Japan. cultivar: Rigai
Seitou. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507167 donor id: NIAR 020646. origin: Japan. cultivar: Rikuu 3. locality: Tohoku. Cultivar. Seed.
- PI 507168 donor id: NIAR 040477. origin: Japan. cultivar: Rikuu 4. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507169 donor id: NIAR 040478. origin: Japan. cultivar: Rikuu 4 (Chuukan Shoku). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507170 donor id: NIAR 020267. origin: Japan. cultivar: Rikuu 6. locality: Tohoku. Cultivar. Seed.
- PI 507171 donor id: NIAR 040423. origin: Japan. cultivar: Rikuu 7. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507172 donor id: NIAR 020542. origin: Japan. cultivar: Rikuu 8. locality: Tohoku. Cultivar. Seed.
- PI 507173 donor id: NIAR 040422. origin: Japan. cultivar: Rikuu 9. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507174 donor id: NIAR 040421. origin: Japan. cultivar: Rikuu 10. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507175 donor id: NIAR 020269. origin: Japan. cultivar: Rikuu 11. locality: Tohoku. Cultivar. Seed.
- PI 507176 donor id: NIAR 040486. origin: Japan. cultivar: Rikuu 13. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507177 donor id: NIAR 020270. origin: Japan. cultivar: Rikuu 15. locality: Tohoku. Cultivar. Seed.
- PI 507178 donor id: NIAR 040420. origin: Japan. cultivar: Rikuu 17. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507179 donor id: NIAR 020648. origin: Japan. cultivar: Rikuu 18. locality: Tohoku. Cultivar. Seed.
- PI 507180 donor id: NIAR 040419. origin: Japan. cultivar: Rikuu 21. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507181 donor id: NIAR 020649. origin: Japan. cultivar: Rikuu 21. locality: Tohoku. Cultivar. Seed.
- PI 507182 donor id: NIAR 020650. origin: Japan. cultivar: Rikuu 22. locality: Tohoku. Cultivar. Seed.
- PI 507183 donor id: NIAR 020651. origin: Japan. cultivar: Rikuu 23. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507184 donor id: NIAR 040418. origin: Japan. cultivar: Rikuu 25. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507185 donor id: NIAR 020652. origin: Japan. cultivar: Rikuu 26. locality: Tohoku. Cultivar. Seed.
- PI 507186 donor id: NIAR 020526. origin: Japan. cultivar: Rikuu 28. locality: Tohoku. Cultivar. Seed.
- PI 507187 donor id: NIAR 020569. origin: Japan. cultivar: Rikuu 28. locality: Tohoku. Cultivar. Seed.
- PI 507188 donor id: NIAR 040746. origin: Japan. cultivar: Rinkan. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507189 donor id: NIAR 020018. origin: Japan. cultivar: Rokugatsu Daizu. locality: Tohoku. Cultivar. Seed.
- PI 507190 donor id: NIAR 040799. origin: Japan. cultivar: Rokugatsu Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507191 donor id: NIAR 030080. origin: Japan. cultivar: Rokujuunichi Mame. locality: Hokuriku. Cultivar. Seed.
- PI 507192 donor id: NIAR 040574. origin: Japan. cultivar: Ryuukyuu Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507193 donor id: NIAR 090173. origin: Japan. cultivar: Ryuusui. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507194 donor id: NIAR 040059. origin: Japan. cultivar: Sagi Shiro Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507195 donor id: NIAR 090194. origin: Japan. cultivar: Saikai 2. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507196 donor id: NIAR 090195. origin: Japan. cultivar: Saikai 10. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507197 donor id: NIAR 090196. origin: Japan. cultivar: Saikai 15. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507198 donor id: NIAR 090197. origin: Japan. cultivar: Saikai 19. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507199 donor id: NIAR 090199. origin: Japan. cultivar: Saikai 25. locality: Kyushu and Okinawa. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507200 donor id: NIAR 090200. origin: Japan. cultivar: Saikai 29. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507201 donor id: NIAR 030061. origin: Japan. cultivar: Saishuu Daizu. locality: Hokuriku. Cultivar. Seed.
- PI 507202 donor id: NIAR 060114. origin: Japan. cultivar: Saishuutou Shirokotsubu. locality: Kinki. Cultivar. Seed.
- PI 507203 donor id: NIAR 040819. origin: Japan. cultivar: Sakae Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507204 donor id: NIAR 020692. origin: Japan. cultivar: Sakata Wase. locality: Tohoku. Cultivar. Seed.
- PI 507205 donor id: NIAR 040820. origin: Japan. cultivar: Sakiyama Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507206 donor id: NIAR 040982. origin: Japan. cultivar: Saku Zairai (1). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507207 donor id: NIAR 040983. origin: Japan. cultivar: Saku Zairai (2). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507208 donor id: NIAR 020443. origin: Japan. cultivar: Sakura Mame. locality: Tohoku. Cultivar. Seed.
- PI 507209 donor id: NIAR 040523. origin: Japan. cultivar: Sakyuu Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507210 donor id: NIAR 040587. origin: Japan. cultivar: Sangoku Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507211 donor id: NIAR 040348. origin: Japan. cultivar: Sangokudori. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507212 donor id: NIAR 040570. origin: Japan. cultivar: Sasaga Zairai (Ban). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507213 donor id: NIAR 040326. origin: Japan. cultivar: Sasaga Zairai (Sou). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507214 donor id: NIAR 040340. origin: Japan. cultivar: Sayakii Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507215 donor id: NIAR 060098. origin: Japan. cultivar: Sayama 6. locality: Kinki. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507216 donor id: NIAR 040344. origin: Japan. cultivar: Seinaiji Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507217 donor id: NIAR 041024. origin: Japan. cultivar: Sendai Fuku. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507218 donor id: NIAR 040329. origin: Japan. cultivar: Sendaishu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507219 donor id: NIAR 040851. origin: Japan. cultivar: Sengoku Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507220 donor id: NIAR 060109. origin: Japan. cultivar: Sennari. locality: Kinki. Cultivar. Seed.
- PI 507221 donor id: NIAR 020666. origin: Japan. cultivar: Sennari. locality: Tohoku. Cultivar. Seed.
- PI 507222 donor id: NIAR 040797. origin: Japan. cultivar: Senryuu Ao. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507223 donor id: NIAR 020654. origin: Japan. cultivar: Shakujo (Ishinazaka). locality: Tohoku. Cultivar. Seed.
- PI 507224 donor id: NIAR 020510. origin: Japan. cultivar: Shakujo. locality: Tohoku. Cultivar. Seed.
- PI 507225 donor id: NIAR 040880. origin: Japan. cultivar: Shakujo Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507226 donor id: NIAR 020714. origin: Japan. cultivar: Shichigatsu Mame. locality: Tohoku. Cultivar. Seed.
- PI 507227 donor id: NIAR 040263. origin: Japan. cultivar: Shichigou Cha Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507228 donor id: NIAR 040581. origin: Japan. cultivar: Shichiri Koubashi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507229 donor id: NIAR 020090. origin: Japan. cultivar: Shimabara Wase. locality: Tohoku. Cultivar. Seed.
- PI 507230 donor id: NIAR 020356. origin: Japan. cultivar: Shimayamane 1. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507231 donor id: NIAR 040816. origin: Japan. cultivar: Shimo Hisakata Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507232 donor id: NIAR 030046. origin: Japan. cultivar: Shimo Shirazu. locality: Hokuriku. Cultivar. Seed.
- PI 507233 donor id: NIAR 020133. origin: Japan. cultivar: Shimofuri Mame. locality: Tohoku. Cultivar. Seed.
- PI 507234 donor id: NIAR 020472. origin: Japan. cultivar: Shimofuri Mame. locality: Tohoku. Cultivar. Seed.
- PI 507235 donor id: NIAR 040850. origin: Japan. cultivar: Shimokaburi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507236 donor id: NIAR 040365. origin: Japan. cultivar: Shimokusanoshu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507237 donor id: NIAR 030020. origin: Japan. cultivar: Shin 1. locality: Hokuriku. Cultivar. Seed.
- PI 507238 donor id: NIAR 030065. origin: Japan. cultivar: Shin 2. locality: Hokuriku. Cultivar. Seed.
- PI 507239 donor id: NIAR 030077. origin: Japan. cultivar: Shin 2. locality: Hokuriku. Cultivar. Seed.
- PI 507240 donor id: NIAR 040536. origin: Japan. cultivar: Shin 3. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507241 donor id: NIAR 090192. origin: Japan. cultivar: Shin Shimabara. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507242 donor id: NIAR 040505. origin: Japan. cultivar: Shina Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507243 donor id: NIAR 040856. origin: Japan. cultivar: Shina Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507244 donor id: NIAR 040502. origin: Japan. cultivar: Shinano Mejiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507245 donor id: NIAR 040498. origin: Japan. cultivar: Shinanojiri Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507246 donor id: NIAR 040504. origin: Japan. cultivar: Shirage 9. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507247 donor id: NIAR 030070. origin: Japan. cultivar: Shirasaya. locality: Hokuriku. Cultivar. Seed.
- PI 507248 donor id: NIAR 040452. origin: Japan. cultivar: Shirasaya. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507249 donor id: NIAR 020359. origin: Japan. cultivar: Shiratama. locality: Tohoku. Cultivar. Seed.
- PI 507250 donor id: NIAR 040596. origin: Japan. cultivar: Shiratama. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507251 donor id: NIAR 040741. origin: Japan. cultivar: Shiratama. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507252 donor id: NIAR 020396. origin: Japan. cultivar: Shiratama 10. locality: Tohoku. Cultivar. Seed.
- PI 507253 donor id: NIAR 040442. origin: Japan. cultivar: Shiro Bankon. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507254 donor id: NIAR 030095. origin: Japan. cultivar: Shiro Bansei. locality: Hokuriku. Cultivar. Seed.
- PI 507255 donor id: NIAR 040488. origin: Japan. cultivar: Shiro Chonkon. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507256 donor id: NIAR 040544. origin: Japan. cultivar: Shiro Chonkon. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507257 donor id: NIAR 080019. origin: Japan. cultivar: Shiro Daihachirin. locality: Chugoku. Cultivar. Seed.
- PI 507258 donor id: NIAR 040364. origin: Japan. cultivar: Shiro Dairin. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507259 donor id: NIAR 090069. origin: Japan. cultivar: Shiro Daizu. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507260 donor id: NIAR 020560. origin: Japan. cultivar: Shiro Daizu. locality: Tohoku. Cultivar. Seed.
- PI 507261 donor id: NIAR 020682. origin: Japan. cultivar: Shiro Daizu. locality: Tohoku. Cultivar. Seed.
- PI 507262 donor id: NIAR 070032. origin: Japan. cultivar: Shiro Daizu. locality: Shikoku. Cultivar. Seed.
- PI 507263 donor id: NIAR 040611. origin: Japan. cultivar: Shiro Daizu (Amijou). locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507264 donor id: NIAR 020368. origin: Japan. cultivar: Shiro Gankui. locality: Tohoku. Cultivar. Seed.
- PI 507265 donor id: NIAR 020595. origin: Japan. cultivar: Shiro Hachikoku. locality: Tohoku. Cultivar. Seed.
- PI 507266 donor id: NIAR 020696. origin: Japan. cultivar: Shiro Hachikoku 2. locality: Tohoku. Cultivar. Seed.
- PI 507267 donor id: NIAR 030101. origin: Japan. cultivar: Shiro Hadaka 12. locality: Hokuriku. Cultivar. Seed.
- PI 507268 donor id: NIAR 020580. origin: Japan. cultivar: Shiro Higo. locality: Tohoku. Cultivar. Seed.
- PI 507269 donor id: NIAR 040336. origin: Japan. cultivar: Shiro Mitsu Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507270 donor id: NIAR 040282. origin: Japan. cultivar: Shiro No Tairyuu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507271 donor id: NIAR 040428. origin: Japan. cultivar: Shiro Pankon. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507272 donor id: NIAR 040430. origin: Japan. cultivar: Shiro Pankon. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507273 donor id: NIAR 040248. origin: Japan. cultivar: Shiro Tairyuu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507274 donor id: NIAR 010055. origin: Japan. cultivar: Shiro Tsuru No Ko. locality: Hokkaido. Cultivar. Seed.
- PI 507275 donor id: NIAR 020695. origin: Japan. cultivar: Shiro Yamadera. locality: Tohoku. Cultivar. Seed.
- PI 507276 donor id: NIAR 080020. origin: Japan. cultivar: Shiro Zairai. locality: Chugoku. Cultivar. Seed.
- PI 507277 donor id: NIAR 040794. origin: Japan. cultivar: Shirobana Shou. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507278 donor id: NIAR 040416. origin: Japan. cultivar: Shirohada. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507279 donor id: NIAR 020456. origin: Japan. cultivar: Shirohana. locality: Tohoku. Cultivar. Seed.
- PI 507280 donor id: NIAR 020455. origin: Japan. cultivar: Shirohana 1. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507281 donor id: NIAR 010040. origin: Japan. cultivar: Shirohana Oosodefuri. locality: Hokkaido. Cultivar. Seed.
- PI 507282 donor id: NIAR 040450. origin: Japan. cultivar: Shirohana Sai 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507283 donor id: NIAR 060083. origin: Japan. cultivar: Shirokawa Daizu. locality: Kinki. Cultivar. Seed.
- PI 507284 donor id: NIAR 020545. origin: Japan. cultivar: Shirokuchi 1. locality: Tohoku. Cultivar. Seed.
- PI 507285 donor id: NIAR 090136. origin: Japan. cultivar: Shirome. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507286 donor id: NIAR 040197. origin: Japan. cultivar: Shirosaya 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507287 donor id: NIAR 020478. origin: Japan. cultivar: Shirosaya (1). locality: Tohoku. Cultivar. Seed.
- PI 507288 donor id: NIAR 040162. origin: Japan. cultivar: Shirosaya (Toufu Mame). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507289 donor id: NIAR 040026. origin: Japan. cultivar: Shirotae. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507290 donor id: NIAR 040857. origin: Japan. cultivar: Shizukamurasan. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507291 donor id: NIAR 030093. origin: Japan. cultivar: Shou Ouryuushu. locality: Hokuriku. Cultivar. Seed.
- PI 507292 donor id: NIAR 040595. origin: Japan. cultivar: Shoujou Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507293 donor id: NIAR 030087. origin: Japan. cultivar: Shoukin Ou. locality: Hokuriku. Cultivar. Seed.
- PI 507294 donor id: NIAR 040469. origin: Japan. cultivar: Shoukin Ou 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507295 donor id: NIAR 020734. origin: Japan. cultivar: Shoutou 1 (Chou). locality: Tohoku. Cultivar. Seed.
- PI 507296 donor id: NIAR 040466. origin: Japan. cultivar: Shuutai 2. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507297 donor id: NIAR 040467. origin: Japan. cultivar: Shuutai 4. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507298 donor id: NIAR 030103. origin: Japan. cultivar: Sokoshin (Kamigoumura). locality: Hokuriku. Cultivar. Seed.
- PI 507299 donor id: NIAR 040843. origin: Japan. cultivar: Souga Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507300 donor id: NIAR 040278. origin: Japan. cultivar: Soukou Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507301 donor id: NIAR 090237. origin: Japan. cultivar: Souta Daizu. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507302 donor id: NIAR 040363. origin: Japan. cultivar: Suginoshu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507303 donor id: NIAR 030082. origin: Japan. cultivar: Sumoto Zairai. locality: Hokuriku. Cultivar. Seed.
- PI 507304 donor id: NIAR 020612. origin: Japan. cultivar: Suzunari. locality: Tohoku. Cultivar. Seed.
- PI 507305 donor id: NIAR 020446. origin: Japan. cultivar: Taihaku. locality: Tohoku. Cultivar. Seed.
- PI 507306 donor id: NIAR 040524. origin: Japan. cultivar: Taihaku. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507307 donor id: NIAR 041096. origin: Japan. cultivar: Taika Daizu 1-4-1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507308 donor id: NIAR 041097. origin: Japan. cultivar: Taika Daizu 1-5-2. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507309 donor id: NIAR 020712. origin: Japan. cultivar: Tairadate Zairaishu. locality: Tohoku. Cultivar. Seed.
- PI 507310 donor id: NIAR 040576. origin: Japan. cultivar: Tairyuu Mejiro. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507311 donor id: NIAR 040866. origin: Japan. cultivar: Takagaki Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507312 donor id: NIAR 040867. origin: Japan. cultivar: Takagaki Zairai (Kurosaya). locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507313 donor id: NIAR 040507. origin: Japan. cultivar: Takagi 1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507314 donor id: NIAR 040338. origin: Japan. cultivar: Takai Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507315 donor id: NIAR 040731. origin: Japan. cultivar: Takasago. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507316 donor id: NIAR 041042. origin: Japan. cultivar: Takayama Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507317 donor id: NIAR 020516. origin: Japan. cultivar: Takei 1. locality: Tohoku. Cultivar. Seed.
- PI 507318 donor id: NIAR 040439. origin: Japan. cultivar: Takei 4. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507319 donor id: NIAR 020296. origin: Japan. cultivar: Takei 8. locality: Tohoku. Cultivar. Seed.
- PI 507320 donor id: NIAR 040437. origin: Japan. cultivar: Takei 8. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507321 donor id: NIAR 040444. origin: Japan. cultivar: Takei 12. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507322 donor id: NIAR 030056. origin: Japan. cultivar: Takiya. locality: Hokuriku. Cultivar. Seed.
- PI 507323 donor id: NIAR 020681. origin: Japan. cultivar: Takiya 560. locality: Tohoku. Cultivar. Seed.
- PI 507324 donor id: NIAR 020426. origin: Japan. cultivar: Takiya Mame. locality: Tohoku. Cultivar. Seed.
- PI 507325 donor id: NIAR 060081. origin: Japan. cultivar: Tamagomame 1. locality: Kinki. Cultivar. Seed.
- PI 507326 donor id: NIAR 040283. origin: Japan. cultivar: Tamaho Zairai (6). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507327 donor id: NIAR 041104. origin: Japan. cultivar: Tamahomare. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507328 donor id: NIAR 040734. origin: Japan. cultivar: Tamamusume. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507329 donor id: NIAR 060115. origin: Japan. cultivar: Tamaoki 7. locality: Kinki. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507330 donor id: NIAR 020358. origin: Japan. cultivar: Tamatsukuri. locality: Tohoku. Cultivar. Seed.
- PI 507331 donor id: NIAR 040871. origin: Japan. cultivar: Tamatsukuri. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507332 donor id: NIAR 020384. origin: Japan. cultivar: Tamatsukuri 2. locality: Tohoku. Cultivar. Seed.
- PI 507333 donor id: NIAR 020611. origin: Japan. cultivar: Tamatsukuri 2. locality: Tohoku. Cultivar. Seed.
- PI 507334 donor id: NIAR 040835. origin: Japan. cultivar: Tamatsukuri (Ishioka). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507335 donor id: NIAR 080035. origin: Japan. cultivar: Tamazoroi. locality: Chugoku. Cultivar. Seed.
- PI 507336 donor id: NIAR 060110. origin: Japan. cultivar: Tanba Kuro. locality: Kinki. Cultivar. Seed.
- PI 507337 donor id: NIAR 040873. origin: Japan. cultivar: Tanniyu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507338 donor id: NIAR 040361. origin: Japan. cultivar: Tanoiri Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507339 donor id: NIAR 020342. origin: Japan. cultivar: Tanryoku (1). locality: Tohoku. Cultivar. Seed.
- PI 507340 donor id: NIAR 070025. origin: Japan. cultivar: Tansen 45. locality: Shikoku. Cultivar. Seed.
- PI 507341 donor id: NIAR 090159. origin: Japan. cultivar: Tashoutou. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507342 donor id: NIAR 040810. origin: Japan. cultivar: Tatsuno Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507343 donor id: NIAR 040641. origin: Japan. cultivar: Tatsuno Zairai Midashi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507344 donor id: NIAR 040533. origin: Japan. cultivar: Ten-an. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507345 donor id: NIAR 020433. origin: Japan. cultivar: Tenzan. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507346 donor id: NIAR 020483. origin: Japan. cultivar: Teramae
1. locality: Tohoku. Cultivar. Seed.
- PI 507347 donor id: NIAR 040245. origin: Japan. cultivar:
Teratsuka. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507348 donor id: NIAR 040737. origin: Japan. cultivar: Tochigi
1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507349 donor id: NIAR 010037. origin: Japan. cultivar: Toiku
118 (Toyosuzu). locality: Hokkaido. Cultivar. Seed.
- PI 507350 donor id: NIAR 010063. origin: Japan. cultivar: Toiku
129. locality: Hokkaido. Cultivar. Seed.
- PI 507351 donor id: NIAR 010064. origin: Japan. cultivar: Toiku
130. locality: Hokkaido. Cultivar. Seed.
- PI 507352 donor id: NIAR 010065. origin: Japan. cultivar: Toiku
152. locality: Hokkaido. Cultivar. Seed.
- PI 507353 donor id: NIAR 010066. origin: Japan. cultivar: Toiku
155. locality: Hokkaido. Cultivar. Seed.
- PI 507354 donor id: NIAR 010080. origin: Japan. cultivar: Tokei
421. locality: Hokkaido. Cultivar. Seed.
- PI 507355 donor id: NIAR 010062. origin: Japan. cultivar: Tokei
423. locality: Hokkaido. Cultivar. Seed.
- PI 507356 donor id: NIAR 040847. origin: Japan. cultivar:
Tomihama Zairai. locality: Kanto and Tosan. Cultivar.
Seed.
- PI 507357 donor id: NIAR 040343. origin: Japan. cultivar:
Tomikusa Zairai. locality: Kanto and Tosan. Cultivar.
Seed.
- PI 507358 donor id: NIAR 040056. origin: Japan. cultivar: Tomoda
1. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507359 donor id: NIAR 041076. origin: Japan. cultivar: Tone
Tsurunoko. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507360 donor id: NIAR 030096. origin: Japan. cultivar: Toufu
Mame. locality: Hokuriku. Cultivar. Seed.
- PI 507361 donor id: NIAR 020653. origin: Japan. cultivar: Touhoku
3. locality: Tokoku. Cultivar. Seed.
- PI 507362 donor id: NIAR 020706. origin: Japan. cultivar: Touhoku
25. locality: Tokoku. Cultivar. Seed.

PI 506471 to 507579-continued

PI 507363 donor id: NIAR 020570. origin: Japan. cultivar: Touhoku
26. locality: Tokoku. Cultivar. Seed.

PI 507364 donor id: NIAR 020571. origin: Japan. cultivar: Touhoku
31. locality: Tokoku. Cultivar. Seed.

PI 507365 donor id: NIAR 020721. origin: Japan. cultivar: Touhoku
41. locality: Tokoku. Cultivar. Seed.

PI 507366 donor id: NIAR 020731. origin: Japan. cultivar: Touhoku
42. locality: Tokoku. Cultivar. Seed.

PI 507367 donor id: NIAR 020729. origin: Japan. cultivar: Touhoku
46. locality: Tokoku. Cultivar. Seed.

PI 507368 donor id: NIAR 020732. origin: Japan. cultivar: Touhoku
51. locality: Tokoku. Cultivar. Seed.

PI 507369 donor id: NIAR 020722. origin: Japan. cultivar: Touhoku
53. locality: Tokoku. Cultivar. Seed.

PI 507370 donor id: NIAR 020353. origin: Japan. cultivar:
Toukichi. locality: Tokoku. Cultivar. Seed.

PI 507371 donor id: NIAR 090155. origin: Japan. cultivar:
Toukyou. locality: Kyushu and Okinawa. Cultivar. Seed.

PI 507372 donor id: NIAR 040818. origin: Japan. cultivar: Toukyou
Daizu. locality: Kanto and Tosan. Cultivar. Seed.

PI 507373 donor id: NIAR 010058. origin: Japan. cultivar: Tounou
Keitou. locality: Hokkaido. Cultivar. Seed.

PI 507374 donor id: NIAR 040386. origin: Japan. cultivar: Tousan
2. locality: Kanto and Tosan. Cultivar. Seed.

PI 507375 donor id: NIAR 040389. origin: Japan. cultivar: Tousan
8. locality: Kanto and Tosan. Cultivar. Seed.

PI 507376 donor id: NIAR 040391. origin: Japan. cultivar: Tousan
11. locality: Kanto and Tosan. Cultivar. Seed.

PI 507377 donor id: NIAR 040645. origin: Japan. cultivar: Tousan
25. locality: Kanto and Tosan. Cultivar. Seed.

PI 507378 donor id: NIAR 040410. origin: Japan. cultivar: Tousan
35. locality: Kanto and Tosan. Cultivar. Seed.

PI 507379 donor id: NIAR 040629. origin: Japan. cultivar: Tousan
39. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

PI 507380 donor id: NIAR 040548. origin: Japan. cultivar: Tousan
41. locality: Kanto and Tosan. Cultivar. Seed.

PI 507381 donor id: NIAR 040624. origin: Japan. cultivar: Tousan
42. locality: Kanto and Tosan. Cultivar. Seed.

PI 507382 donor id: NIAR 040630. origin: Japan. cultivar: Tousan
43. locality: Kanto and Tosan. Cultivar. Seed.

PI 507383 donor id: NIAR 040550. origin: Japan. cultivar: Tousan
44. locality: Kanto and Tosan. Cultivar. Seed.

PI 507384 donor id: NIAR 040551. origin: Japan. cultivar: Tousan
45. locality: Kanto and Tosan. Cultivar. Seed.

PI 507385 donor id: NIAR 040625. origin: Japan. cultivar: Tousan
46. locality: Kanto and Tosan. Cultivar. Seed.

PI 507386 donor id: NIAR 040642. origin: Japan. cultivar: Tousan
47. locality: Kanto and Tosan. Cultivar. Seed.

PI 507387 donor id: NIAR 040626. origin: Japan. cultivar: Tousan
48. locality: Kanto and Tosan. Cultivar. Seed.

PI 507388 donor id: NIAR 040631. origin: Japan. cultivar: Tousan
49. locality: Kanto and Tosan. Cultivar. Seed.

PI 507389 donor id: NIAR 040622. origin: Japan. cultivar: Tousan
50. locality: Kanto and Tosan. Cultivar. Seed.

PI 507390 donor id: NIAR 040632. origin: Japan. cultivar: Tousan
51. locality: Kanto and Tosan. Cultivar. Seed.

PI 507391 donor id: NIAR 040633. origin: Japan. cultivar: Tousan
52. locality: Kanto and Tosan. Cultivar. Seed.

PI 507392 donor id: NIAR 040627. origin: Japan. cultivar: Tousan
53. locality: Kanto and Tosan. Cultivar. Seed.

PI 507393 donor id: NIAR 040643. origin: Japan. cultivar: Tousan
54. locality: Kanto and Tosan. Cultivar. Seed.

PI 507394 donor id: NIAR 040634. origin: Japan. cultivar: Tousan
55. locality: Kanto and Tosan. Cultivar. Seed.

PI 507395 donor id: NIAR 040556. origin: Japan. cultivar: Tousan
56. locality: Kanto and Tosan. Cultivar. Seed.

PI 507396 donor id: NIAR 040635. origin: Japan. cultivar: Tousan
58. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

PI 507397 donor id: NIAR 040644. origin: Japan. cultivar: Tousan
59. locality: Kanto and Tosan. Cultivar. Seed.

PI 507398 donor id: NIAR 040887. origin: Japan. cultivar: Tousan
60. locality: Kanto and Tosan. Cultivar. Seed.

PI 507399 donor id: NIAR 040888. origin: Japan. cultivar: Tousan
61. locality: Kanto and Tosan. Cultivar. Seed.

PI 507400 donor id: NIAR 040889. origin: Japan. cultivar: Tousan
62. locality: Kanto and Tosan. Cultivar. Seed.

PI 507401 donor id: NIAR 040890. origin: Japan. cultivar: Tousan
63. locality: Kanto and Tosan. Cultivar. Seed.

PI 507402 donor id: NIAR 041069. origin: Japan. cultivar: Tousan
64. locality: Kanto and Tosan. Cultivar. Seed.

PI 507403 donor id: NIAR 041001. origin: Japan. cultivar: Tousan
65. locality: Kanto and Tosan. Cultivar. Seed.

PI 507404 donor id: NIAR 040893. origin: Japan. cultivar: Tousan
66. locality: Kanto and Tosan. Cultivar. Seed.

PI 507405 donor id: NIAR 040894. origin: Japan. cultivar: Tousan
67. locality: Kanto and Tosan. Cultivar. Seed.

PI 507406 donor id: NIAR 041047. origin: Japan. cultivar: Tousan
68. locality: Kanto and Tosan. Cultivar. Seed.

PI 507407 donor id: NIAR 040896. origin: Japan. cultivar: Tousan
69. locality: Kanto and Tosan. Cultivar. Seed.

PI 507408 donor id: NIAR 041048. origin: Japan. cultivar: Tousan
69. locality: Kanto and Tosan. Cultivar. Seed.

PI 507409 donor id: NIAR 040897. origin: Japan. cultivar: Tousan
70. locality: Kanto and Tosan. Cultivar. Seed.

PI 507410 donor id: NIAR 040898. origin: Japan. cultivar: Tousan
71. locality: Kanto and Tosan. Cultivar. Seed.

PI 507411 donor id: NIAR 041002. origin: Japan. cultivar: Tousan
73. locality: Kanto and Tosan. Cultivar. Seed.

PI 507412 donor id: NIAR 040901. origin: Japan. cultivar: Tousan
74. locality: Kanto and Tosan. Cultivar. Seed.

PI 507413 donor id: NIAR 040902. origin: Japan. cultivar: Tousan
75. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

PI 507414 donor id: NIAR 040903. origin: Japan. cultivar: Tousan
76. locality: Kanto and Tosan. Cultivar. Seed.

PI 507415 donor id: NIAR 040904. origin: Japan. cultivar: Tousan
77. locality: Kanto and Tosan. Cultivar. Seed.

PI 507416 donor id: NIAR 040905. origin: Japan. cultivar: Tousan
78. locality: Kanto and Tosan. Cultivar. Seed.

PI 507417 donor id: NIAR 041071. origin: Japan. cultivar: Tousan
78. locality: Kanto and Tosan. Cultivar. Seed.

PI 507418 donor id: NIAR 040906. origin: Japan. cultivar: Tousan
79. locality: Kanto and Tosan. Cultivar. Seed.

PI 507419 donor id: NIAR 041078. origin: Japan. cultivar: Tousan
80. locality: Kanto and Tosan. Cultivar. Seed.

PI 507420 donor id: NIAR 040908. origin: Japan. cultivar: Tousan
81. locality: Kanto and Tosan. Cultivar. Seed.

PI 507421 donor id: NIAR 041049. origin: Japan. cultivar: Tousan
82. locality: Kanto and Tosan. Cultivar. Seed.

PI 507422 donor id: NIAR 040910. origin: Japan. cultivar: Tousan
83. locality: Kanto and Tosan. Cultivar. Seed.

PI 507423 donor id: NIAR 041050. origin: Japan. cultivar: Tousan
83. locality: Kanto and Tosan. Cultivar. Seed.

PI 507424 donor id: NIAR 040911. origin: Japan. cultivar: Tousan
84. locality: Kanto and Tosan. Cultivar. Seed.

PI 507425 donor id: NIAR 041064. origin: Japan. cultivar: Tousan
85. locality: Kanto and Tosan. Cultivar. Seed.

PI 507426 donor id: NIAR 040913. origin: Japan. cultivar: Tousan
86. locality: Kanto and Tosan. Cultivar. Seed.

PI 507427 donor id: NIAR 040914. origin: Japan. cultivar: Tousan
87. locality: Kanto and Tosan. Cultivar. Seed.

PI 507428 donor id: NIAR 040915. origin: Japan. cultivar: Tousan
88. locality: Kanto and Tosan. Cultivar. Seed.

PI 507429 donor id: NIAR 041079. origin: Japan. cultivar: Tousan
89. locality: Kanto and Tosan. Cultivar. Seed.

PI 507430 donor id: NIAR 040917. origin: Japan. cultivar: Tousan
90. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507431 donor id: NIAR 041073. origin: Japan. cultivar: Tousan 91. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507432 donor id: NIAR 041086. origin: Japan. cultivar: Tousan 92. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507433 donor id: NIAR 041087. origin: Japan. cultivar: Tousan 94. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507434 donor id: NIAR 041088. origin: Japan. cultivar: Tousan 96. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507435 donor id: NIAR 041089. origin: Japan. cultivar: Tousan 97. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507436 donor id: NIAR 041074. origin: Japan. cultivar: Tousan 98. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507437 donor id: NIAR 041081. origin: Japan. cultivar: Tousan 99. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507438 donor id: NIAR 041075. origin: Japan. cultivar: Tousan 100. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507439 donor id: NIAR 041098. origin: Japan. cultivar: Tousan 101. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507440 donor id: NIAR 041090. origin: Japan. cultivar: Tousan 102. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507441 donor id: NIAR 041091. origin: Japan. cultivar: Tousan 109. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507442 donor id: NIAR 041092. origin: Japan. cultivar: Tousan 110. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507443 donor id: NIAR 041082. origin: Japan. cultivar: Tousan 111. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507444 donor id: NIAR 041099. origin: Japan. cultivar: Tousan 113. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507445 donor id: NIAR 041093. origin: Japan. cultivar: Tousan 114. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507446 donor id: NIAR 041100. origin: Japan. cultivar: Tousan 115. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507447 donor id: NIAR 041101. origin: Japan. cultivar: Tousan 119. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507448 donor id: NIAR 041094. origin: Japan. cultivar: Tousan 121. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507449 donor id: NIAR 041085. origin: Japan. cultivar: Tousan Hitashi 106. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507450 donor id: NIAR 040376. origin: Japan. cultivar: Tousan Kei A 622. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507451 donor id: NIAR 040604. origin: Japan. cultivar: Tousan Kei A 653. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507452 donor id: NIAR 040377. origin: Japan. cultivar: Tousan Kei A 681. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507453 donor id: NIAR 040372. origin: Japan. cultivar: Tousan Kei A 710. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507454 donor id: NIAR 040547. origin: Japan. cultivar: Tousan Kei B 77. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507455 donor id: NIAR 040549. origin: Japan. cultivar: Tousan Kei B 590. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507456 donor id: NIAR 041065. origin: Japan. cultivar: Tousan Kei BL 25. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507457 donor id: NIAR 041066. origin: Japan. cultivar: Tousan Kei BL 51. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507458 donor id: NIAR 041084. origin: Japan. cultivar: Tousan Kei BL 521. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507459 donor id: NIAR 040623. origin: Japan. cultivar: Tousan Kei C 300. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507460 donor id: NIAR 040621. origin: Japan. cultivar: Tousan Kei C 491(2). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507461 donor id: NIAR 040552. origin: Japan. cultivar: Tousan Kei C 536. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507462 donor id: NIAR 040553. origin: Japan. cultivar: Tousan Kei C 573. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507463 donor id: NIAR 040883. origin: Japan. cultivar: Tousan Kei D 802. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507464 donor id: NIAR 040884. origin: Japan. cultivar: Tousan Kei D 806. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

PI 507465 donor id: NIAR 040555. origin: Japan. cultivar: Tousan
Kei E 664. locality: Kanto and Tosan. Cultivar. Seed.

PI 507466 donor id: NIAR 040554. origin: Japan. cultivar: Tousan
Kei E 876. locality: Kanto and Tosan. Cultivar. Seed.

PI 507467 donor id: NIAR 040885. origin: Japan. cultivar: Tousan
Kei F 764. locality: Kanto and Tosan. Cultivar. Seed.

PI 507468 donor id: NIAR 041004. origin: Japan. cultivar: Tousan
Kei G 423. locality: Kanto and Tosan. Cultivar. Seed.

PI 507469 donor id: NIAR 040886. origin: Japan. cultivar: Tousan
Kei G 949. locality: Kanto and Tosan. Cultivar. Seed.

PI 507470 donor id: NIAR 040882. origin: Japan. cultivar: Tousan
Kei NA 5. locality: Kanto and Tosan. Cultivar. Seed.

PI 507471 donor id: NIAR 041016. origin: Japan. cultivar: Tousan
Kei NA 16. locality: Kanto and Tosan. Cultivar. Seed.

PI 507472 donor id: NIAR 041017. origin: Japan. cultivar: Tousan
Kei NA 17. locality: Kanto and Tosan. Cultivar. Seed.

PI 507473 donor id: NIAR 041018. origin: Japan. cultivar: Tousan
Kei NA 18. locality: Kanto and Tosan. Cultivar. Seed.

PI 507474 donor id: NIAR 041019. origin: Japan. cultivar: Tousan
Kei NA 26. locality: Kanto and Tosan. Cultivar. Seed.

PI 507475 donor id: NIAR 041095. origin: Japan. cultivar: Tousan
Kei NA 75. locality: Kanto and Tosan. Cultivar. Seed.

PI 507476 donor id: NIAR 041083. origin: Japan. cultivar: Tousan
Kei NA 144. locality: Kanto and Tosan. Cultivar. Seed.

PI 507477 donor id: NIAR 041005. origin: Japan. cultivar: Tousan
Kei YL 1. locality: Kanto and Tosan. Cultivar. Seed.

PI 507478 donor id: NIAR 041006. origin: Japan. cultivar: Tousan
Kei YL 7. locality: Kanto and Tosan. Cultivar. Seed.

PI 507479 donor id: NIAR 041007. origin: Japan. cultivar: Tousan
Kei YL 12. locality: Kanto and Tosan. Cultivar. Seed.

PI 507480 donor id: NIAR 041067. origin: Japan. cultivar: Tousan
Kei YL 24. locality: Kanto and Tosan. Cultivar. Seed.

PI 507481 donor id: NIAR 040514. origin: Japan. cultivar:
Toushuu. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507482 donor id: NIAR 040868. origin: Japan. cultivar: Toushuu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507483 donor id: NIAR 041022. origin: Japan. cultivar: Toushuu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507484 donor id: NIAR 040572. origin: Japan. cultivar: Toyookamura Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507485 donor id: NIAR 041029. origin: Japan. cultivar: Tsukui. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507486 donor id: NIAR 040881. origin: Japan. cultivar: Tsuru Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507487 donor id: NIAR 020191. origin: Japan. cultivar: Tsuru No Ko Shirohana. locality: Tohoku. Cultivar. Seed.
- PI 507488 donor id: NIAR 020525. origin: Japan. cultivar: Tsuru No Tamago. locality: Tohoku. Cultivar. Seed.
- PI 507489 donor id: NIAR 020211. origin: Japan. cultivar: Tsuru No Tamago 3. locality: Tohoku. Cultivar. Seed.
- PI 507490 donor id: NIAR 020524. origin: Japan. cultivar: Tsuru No Tamago 3. locality: Tohoku. Cultivar. Seed.
- PI 507491 donor id: NIAR 020225. origin: Japan. cultivar: Tsuru No Tamago 6. locality: Tohoku. Cultivar. Seed.
- PI 507492 donor id: NIAR 040540. origin: Japan. cultivar: Tsuru No Tamago (Kuratachisan). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507493 donor id: NIAR 040541. origin: Japan. cultivar: Tsuru No Tamago (Shiraishisan). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507494 donor id: NIAR 020449. origin: Japan. cultivar: Tsuru No Tomo. locality: Tohoku. Cultivar. Seed.
- PI 507495 donor id: NIAR 060097. origin: Japan. cultivar: Uda Zairai. locality: Kinki. Cultivar. Seed.
- PI 507496 donor id: NIAR 020496. origin: Japan. cultivar: Udaizaki Zairaishu. locality: Tohoku. Cultivar. Seed.
- PI 507497 donor id: NIAR 040609. origin: Japan. cultivar: Ueda Tairyuu Mejiro 1. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507498 donor id: NIAR 040354. origin: Japan. cultivar: Ueda Tairyuu Mejiro 22. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507499 donor id: NIAR 040353. origin: Japan. cultivar: Ueda Tairyuu Mejiro (Murasakibana). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507500 donor id: NIAR 010084. origin: Japan. cultivar: Urayama Wase. locality: Hokkaido. Cultivar. Seed.
- PI 507501 donor id: NIAR 020605. origin: Japan. cultivar: Urusan. locality: Tohoku. Cultivar. Seed.
- PI 507502 donor id: NIAR 040805. origin: Japan. cultivar: Ushi No Shirige. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507503 donor id: NIAR 040838. origin: Japan. cultivar: Usuao (Katsume). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507504 donor id: NIAR 041045. origin: Japan. cultivar: Usuda Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507505 donor id: NIAR 040978. origin: Japan. cultivar: Usuda Zairai (1). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507506 donor id: NIAR 040979. origin: Japan. cultivar: Usuda Zairai (2). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507507 donor id: NIAR 040980. origin: Japan. cultivar: Usuda Zairai (3). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507508 donor id: NIAR 040951. origin: Japan. cultivar: Usuda Zairai (4). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507509 donor id: NIAR 040950. origin: Japan. cultivar: Usuda Zairai (5). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507510 donor id: NIAR 040165. origin: Japan. cultivar: Uzura Mame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507511 donor id: NIAR 040984. origin: Japan. cultivar: Wadamura Zairai (2). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507512 donor id: NIAR 040985. origin: Japan. cultivar: Wadamura Zairai (3). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507513 donor id: NIAR 020705. origin: Japan. cultivar: Waisei (Kashou). locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507514 donor id: NIAR 020482. origin: Japan. cultivar: Wakashuu Daizu. locality: Tohoku. Cultivar. Seed.
- PI 507515 donor id: NIAR 040770. origin: Japan. cultivar: Wase 4. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507516 donor id: NIAR 040795. origin: Japan. cultivar: Wase 12. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507517 donor id: NIAR 040526. origin: Japan. cultivar: Wase Akasaya 124. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507518 donor id: NIAR 080034. origin: Japan. cultivar: Wase Asahi. locality: Chugoku. Cultivar. Seed.
- PI 507519 donor id: NIAR 000014. origin: Japan. cultivar: Wase Bon. Cultivar. Seed.
- PI 507520 donor id: NIAR 041038. origin: Japan. cultivar: Wase Daizu 1 (Chiba). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507521 donor id: NIAR 020713. origin: Japan. cultivar: Wase Date Cha. locality: Tohoku. Cultivar. Seed.
- PI 507522 donor id: NIAR 090178. origin: Japan. cultivar: Wase Kuro Daizu. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507523 donor id: NIAR 030109. origin: Japan. cultivar: Wase Kuro Mame. locality: Hokuriku. Cultivar. Seed.
- PI 507524 donor id: NIAR 010041. origin: Japan. cultivar: Wase Midori. locality: Hokkaido. Cultivar. Seed.
- PI 507525 donor id: NIAR 040730. origin: Japan. cultivar: Wase Midori. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507526 donor id: NIAR 040449. origin: Japan. cultivar: Wase Oosaya. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507527 donor id: NIAR 041035. origin: Japan. cultivar: Wase Oosaya. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507528 donor id: NIAR 040333. origin: Japan. cultivar: Wase Shiro Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507529 donor id: NIAR 010025. origin: Japan. cultivar: Wase Tsuru No Ko. locality: Hokkaido. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507530 donor id: NIAR 040539. origin: Japan. cultivar: Wase Tsuru No ko. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507531 donor id: NIAR 030081. origin: Japan. cultivar: Waseshu (2). locality: Hokuriku. Cultivar. Seed.
- PI 507532 donor id: NIAR 020312. origin: Japan. cultivar: Watanabeshu (Yamagata). locality: Tohoku. Cultivar. Seed.
- PI 507533 donor id: NIAR 040981. origin: Japan. cultivar: Yachino Zairai (Ao Mame). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507534 donor id: NIAR 040417. origin: Japan. cultivar: Yagi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507535 donor id: NIAR 020376. origin: Japan. cultivar: Yagi Mame. locality: Tohoku. Cultivar. Seed.
- PI 507536 donor id: NIAR 040618. origin: Japan. cultivar: Yahagi Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507537 donor id: NIAR 040619. origin: Japan. cultivar: Yahagi Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507538 donor id: NIAR 090153. origin: Japan. cultivar: Yahagi (Aichi). locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507539 donor id: NIAR 040869. origin: Japan. cultivar: Yama Aki Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507540 donor id: NIAR 040849. origin: Japan. cultivar: Yama Shirotama. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507541 donor id: NIAR 020463. origin: Japan. cultivar: Yamagata Tanryoku. locality: Tohoku. Cultivar. Seed.
- PI 507542 donor id: NIAR 030078. origin: Japan. cultivar: Yamaguchi Aki Daizu. locality: Hokuriku. Cultivar. Seed.
- PI 507543 donor id: NIAR 000012. origin: Japan. cultivar: Yamajirushi (China). Cultivar. Seed.
- PI 507544 donor id: NIAR 000011. origin: Japan. cultivar: Yamajirushi (USA). Cultivar. Seed.
- PI 507545 donor id: NIAR 040325. origin: Japan. cultivar: Yamaoki. locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507546 donor id: NIAR 040358. origin: Japan. cultivar: Yamato Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507547 donor id: NIAR 040721. origin: Japan. cultivar: Yamauchi Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507548 donor id: NIAR 040768. origin: Japan. cultivar: Yatsufusa. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507549 donor id: NIAR 041068. origin: Japan. cultivar: Yodamurasan. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507550 donor id: NIAR 040852. origin: Japan. cultivar: Yonezawa Zairai. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507551 donor id: NIAR 040809. origin: Japan. cultivar: Yonryuukou. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507552 donor id: NIAR 020678. origin: Japan. cultivar: Yore. locality: Tohoku. Cultivar. Seed.
- PI 507553 donor id: NIAR 040543. origin: Japan. cultivar: Yorimachi Zairai (1). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507554 donor id: NIAR 010083. origin: Japan. cultivar: Yoshioka Dairyuu. locality: Hokkaido. Cultivar. Seed.
- PI 507555 donor id: NIAR 010056. origin: Japan. cultivar: Yoshioka Tairyuu. locality: Hokkaido. Cultivar. Seed.
- PI 507556 donor id: NIAR 040998. origin: Japan. cultivar: Yuda. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507557 donor id: NIAR 040909. origin: Japan. cultivar: Yuda (YL). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507558 donor id: NIAR 040640. origin: Japan. cultivar: Yugaki Mame (Chichibu). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507559 donor id: NIAR 040639. origin: Japan. cultivar: Yugaki Mame (Ryoukami). locality: Kanto and Tosan. Cultivar. Seed.
- PI 507560 donor id: NIAR 020544. origin: Japan. cultivar: Yukihera. locality: Tohoku. Cultivar. Seed.

PI 506471 to 507579-continued

- PI 507561 donor id: NIAR 060101. origin: Japan. cultivar: Yukikorogashi. locality: Kinki. Cultivar. Seed.
- PI 507562 donor id: NIAR 030018. origin: Japan. cultivar: Yukikorogashi (Kashima). locality: Hokuriku. Cultivar. Seed.
- PI 507563 donor id: NIAR 040167. origin: Japan. cultivar: Yukinoshita. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507564 donor id: NIAR 010086. origin: Japan. cultivar: Yukinoshita. locality: Hokkaido. Cultivar. Seed.
- PI 507565 donor id: NIAR 010088. origin: Japan. cultivar: Yukinoshita. locality: Hokkaido. Cultivar. Seed.
- PI 507566 donor id: NIAR 020479. origin: Japan. cultivar: Yukinoshita Mame. locality: Tohoku. Cultivar. Seed.
- PI 507567 donor id: NIAR 020694. origin: Japan. cultivar: Yukiwari Mame. locality: Tohoku. Cultivar. Seed.
- PI 507568 donor id: NIAR 040875. origin: Japan. cultivar: Yuta. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507569 donor id: NIAR 020168. origin: Japan. cultivar: Yuumou Shinnamon. locality: Tohoku. Cultivar. Seed.
- PI 507570 donor id: NIAR 020715. origin: Japan. cultivar: Yuuzuru. locality: Tohoku. Cultivar. Seed.
- PI 507571 donor id: NIAR 040830. origin: Japan. cultivar: Zaika Hi. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507572 donor id: NIAR 090179. origin: Japan. cultivar: Zairai Kuro Daizu. locality: Kyushu and Okinawa. Cultivar. Seed.
- PI 507573 donor id: NIAR 040497. origin: Japan. cultivar: Zairai Misonimame. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507574 donor id: NIAR 040268. origin: Japan. cultivar: Zairaishu Aki Daizu. locality: Kanto and Tosan. Cultivar. Seed.
- PI 507575 donor id: NIAR 040563. origin: Japan. cultivar: Zairaishu (1). locality: Kanto and Tosan. Cultivar. Seed.

PI 506471 to 507579-continued

PI 507576 **donor id:** NIAR 040067. **origin:** Japan. **cultivar:** Zairaishu (2). **locality:** Kanto and Tosan. **Cultivar.** Seed.

PI 507577 **donor id:** NIAR 020489. **origin:** Japan. **cultivar:** Zairaishu (Igu). **locality:** Tohoku. **Cultivar.** Seed.

PI 507578 **donor id:** NIAR 040637. **origin:** Japan. **cultivar:** Zairaishu (Ogura Kei). **locality:** Kanto and Tosan. **Cultivar.** Seed.

PI 507579 **donor id:** NIAR 040971. **origin:** Japan. **cultivar:** Zairaishu (Shiojiri). **locality:** Kanto and Tosan. **Cultivar.** Seed.

PI 507580. *Glycine soja* Siebold & Zucc. FABACEAE Wild soybean

Donated by: Ikehashi, H., Genetic Resources Laboratory, Nat. Inst. of Agrobiological Resources, Yatabe, Tsukuba, 305, Ibaraki-Ken, Japan. **remarks:** Samples received at soybean germplasm collection, Urbana, Illinois, on January 29, 1986. Received January 20, 1987.

donor id: NIAR 040269. **origin:** Japan. **cultivar:** Tsuru Mame. **locality:** Kanto and Tosan. **Cultivated.** Seed.

PI 507581 to 507669. *Glycine soja* Siebold & Zucc. FABACEAE Wild soybean

Donated by: Ikehashi, H., Genetic Resources Laboratory, Nat. Inst. of Agrobiological Resources, Yatabe, Tsukuba, 305, Ibaraki-Ken, Japan. **remarks:** Samples received at Soybean germplasm collection, Urbana, Illinois on July 28, 1986. Received January 20, 1987.

PI 507581 **donor id:** NIAR 020003. **origin:** Japan. **collected:** 1983. **collector:** Kobayashi. **collector id:** Kobayashi-2. **locality:** Kuroishi, Aomori Ken. **Wild.** Seed.

PI 507582 **donor id:** NIAR 020001. **origin:** Japan. **collected:** 1983. **collector:** Nasu. **collector id:** Nasu-1. **locality:** Misawa, Aomori Ken. **Wild.** Seed.

PI 507583 **donor id:** NIAR 020008. **origin:** Japan. **collected:** 1983. **collector:** Nasu. **collector id:** Nasu-2. **locality:** Misawa, Aomori Ken. **Wild.** Seed.

PI 507584 **donor id:** NIAR 020009. **origin:** Japan. **collected:** 1983. **collector:** Nasu. **collector id:** Nasu-3. **locality:** Misawa, Aomori Ken. **Wild.** Seed.

PI 507581 to 507669-continued

- PI 507585 donor id: NIAR 020010. origin: Japan. collected: 1983.
collector: Nasu. collector id: Nasu-4. locality:
Misawa, Aomori Ken. Wild. Seed.
- PI 507586 donor id: NIAR 020012. origin: Japan. collected: 1983.
collector: Nasu. collector id: Nasu-6. locality:
Misawa, Aomori Ken. Wild. Seed.
- PI 507587 donor id: NIAR 020014. origin: Japan. collected: 1983.
collector: Nasu. collector id: Nasu-8. locality:
Misawa, Aomori Ken. Wild. Seed.
- PI 507588 donor id: NIAR 020015. origin: Japan. collected: 1983.
collector: Nasu. collector id: Nasu-9. locality:
Rokunohe, Aomori Ken. Wild. Seed.
- PI 507589 donor id: NIAR 020016. origin: Japan. collected: 1983.
collector: Koyama. locality: Iwate Ken. Wild. Seed.
- PI 507590 donor id: NIAR 020002. origin: Japan. collected: 1983.
collector: Suzuki. locality: Kawabe, Akita Ken. Wild.
Seed.
- PI 507591 donor id: NIAR 020017. origin: Japan. collected: 1983.
collector: Koyama. collector id: Koyama-1. locality:
Nishisenboku, Akita Ken. Wild. Seed.
- PI 507592 donor id: NIAR 020018. origin: Japan. collected: 1983.
collector: Koyama. collector id: Koyama-2. locality:
Nishisenboku, Akita Ken. Wild. Seed.
- PI 507593 donor id: NIAR 020006. origin: Japan. collected: 1983.
collector: Ohtaka. collector id: Ohtaka-3. locality:
Yabuki, Fukushima Ken. Wild. Seed.
- PI 507594 donor id: NIAR 020007. origin: Japan. collected: 1983.
collector: Takahashi. locality: Kagamiishi, Fukushima
Ken. Wild. Seed.
- PI 507595 donor id: NIAR 030002. origin: Japan. collected: 1983.
collector: Imai. locality: Tsunan, Niigata Ken. Wild.
Seed.
- PI 507596 donor id: NIAR 030004. origin: Japan. collected: 1984.
collector: Chinushi. collector id: Chinushi-1.
locality: Iwafune, Niigata Ken. Wild. Seed.
- PI 507597 donor id: NIAR 030005. origin: Japan. collected: 1984.
collector: Chinushi. collector id: Chinushi-2.
locality: Nakajo, Niigata Ken. Wild. Seed.

PI 507581 to 507669-continued

- PI 507598 donor id: NIAR 030001. origin: Japan. collected: 1983.
collector: Kubo. locality: Oyama, Toyama Ken. Wild.
Seed.
- PI 507599 donor id: NIAR 040001. origin: Japan. collected: 1983.
collector: Watanabe. collector id: Watanabe-1.
locality: Kawachi, Ibaraki Ken. Wild. Seed.
- PI 507600 donor id: NIAR 040002. origin: Japan. collected: 1983.
collector: Watanabe. collector id: Watanabe-2.
locality: Shinton, Ibaraki Ken. Wild. Seed.
- PI 507601 donor id: NIAR 040003. origin: Japan. collected: 1983.
collector: Watanabe. collector id: Watanabe-3.
locality: Shinton, Ibaraki Ken. Wild. Seed.
- PI 507602 donor id: NIAR 040004. origin: Japan. collected: 1983.
collector: Watanabe. collector id: Watanabe-4.
locality: Yatabe, Ibaraki Ken. Wild. Seed.
- PI 507603 donor id: NIAR 040005. origin: Japan. collected: 1983.
collector: Watanabe. collector id: Watanabe-5.
locality: Yatabe, Ibaraki Ken. Wild. Seed.
- PI 507604 donor id: NIAR 040006. origin: Japan. collected: 1983.
collector: Watanabe. collector id: Watanabe-6.
locality: Yatabe, Ibaraki Ken. Wild. Seed.
- PI 507605 donor id: NIAR 040029. origin: Japan. collected: 1984.
collector: Kuwahara. locality: Mito, Ibaraki Ken. Wild.
Seed.
- PI 507606 donor id: NIAR 040008. origin: Japan. collected: 1983.
collector: Ohta. collector id: Ohta-1. locality: Sano,
Tochigi Ken. Wild. Seed.
- PI 507607 donor id: NIAR 040009. origin: Japan. collected: 1983.
collector: Ohta. collector id: Ohta-2. locality: Sano,
Tochigi Ken. Wild. Seed.
- PI 507608 donor id: NIAR 040022. origin: Japan. collected: 1983.
collector: Shibata. collector id: Shibata-1. locality:
Imaichi, Tochigi Ken. Wild. Seed.
- PI 507609 donor id: NIAR 040023. origin: Japan. collected: 1983.
collector: Shibata. collector id: Shibata-2. locality:
Awano, Tochigi Ken. Wild. Seed.
- PI 507610 donor id: NIAR 040024. origin: Japan. collected: 1983.
collector: Shibata. collector id: Shibata-3. locality:
Kanuma, Tochigi Ken. Wild. Seed.

PI 507581 to 507669-continued

- PI 507611 donor id: NIAR 040025. origin: Japan. collected: 1983.
collector: Shibata. collector id: Shibata-4. locality:
Kanuma, Tochigi Ken. Wild. Seed.
- PI 507612 donor id: NIAR 040026. origin: Japan. collected: 1983.
collector: Shibata. collector id: Shibata-5. locality:
Awano, Tochigi Ken. Wild. Seed.
- PI 507613 donor id: NIAR 040021. origin: Japan. collected: 1983.
collector: Gokan. locality: Isezaki, Gunma Ken. Wild.
Seed.
- PI 507614 donor id: NIAR 040011. origin: Japan. collected: 1983.
collector: Maruyama. locality: Fujimi, Nagano Ken.
Wild. Seed.
- PI 507615 donor id: NIAR 040012. origin: Japan. collected: 1983.
collector: Horiuchi. collector id: Horiuchi-1.
locality: Ueda, Nagano Ken. Wild. Seed.
- PI 507616 donor id: NIAR 040013. origin: Japan. collected: 1983.
collector: Horiuchi. collector id: Horiuchi-2.
locality: Ueda, Nagano Ken. Wild. Seed.
- PI 507617 donor id: NIAR 040014. origin: Japan. collected: 1983.
collector: Horiuchi. collector id: Horiuchi-3.
locality: Hakuba, Nagano Ken. Wild. Seed.
- PI 507618 donor id: NIAR 040015. origin: Japan. collected: 1983.
collector: Horiuchi. collector id: Horiuchi-4.
locality: Hakuba, Nagano Ken. Wild. Seed.
- PI 507619 donor id: NIAR 040016. origin: Japan. collected: 1983.
collector: Horiuchi. collector id: Horiuchi-5.
locality: Hakuba, Nagano Ken. Wild. Seed.
- PI 507620 donor id: NIAR 040018. origin: Japan. collected: 1983.
collector: Horiuchi. collector id: Horiuchi-7.
locality: Ogawa, Nagano Ken. Wild. Seed.
- PI 507621 donor id: NIAR 040019. origin: Japan. collected: 1983.
collector: Horiuchi. collector id: Horiuchi-8.
locality: Nakajo, Nagano Ken. Wild. Seed.
- PI 507622 donor id: NIAR 040020. origin: Japan. collected: 1983.
collector: Horiuchi. collector id: Horiuchi-9.
locality: Suzaka, Nagano Ken. Wild. Seed.
- PI 507623 donor id: NIAR 040007. origin: Japan. collected: 1983.
collector: Ogawa. locality: Kodaira, Tokyo Ken. Wild.
Seed.

PI 507581 to 507669-continued

- PI 507624 donor id: NIAR 050002. origin: Japan. collected: 1983.
collector: Oguri. locality: Nakatsuga, Gifu Ken. Wild.
Seed.
- PI 507625 donor id: NIAR 090009. origin: Japan. collected: 1983.
collector: Mawaki. locality: Fukui, Fukui Ken. Wild.
Seed.
- PI 507626 donor id: NIAR 050001. origin: Japan. collected: 1983.
collector: Hayashi. locality: Toyohashi, Aichi Ken.
Wild. Seed.
- PI 507627 donor id: NIAR 050004. origin: Japan. collected: 1983.
collector: Ohtake. locality: Anjoh, Aichi Ken. Wild.
Seed.
- PI 507628 donor id: NIAR 050005. origin: Japan. collected: 1983.
collector: Taneda. locality: Toyohashi, Aichi Ken.
Wild. Seed.
- PI 507629 donor id: NIAR 050003. origin: Japan. collected: 1983.
collector: Hirano. locality: Gotenba, Shizuoka Ken.
Wild. Seed.
- PI 507630 donor id: NIAR 060002. origin: Japan. collected: 1983.
collector: Nobuoka. collector id: Nobuoka-2. locality:
Haibara, Nara Ken. Wild. Seed.
- PI 507631 donor id: NIAR 060003. origin: Japan. collected: 1983.
collector: Nobuoka. collector id: Nobuoka-3. locality:
Haibara, Nara Ken. Wild. Seed.
- PI 507632 donor id: NIAR 060004. origin: Japan. collected: 1983.
collector: Nishio. locality: Kashihara, Nara Ken. Wild.
Seed.
- PI 507633 donor id: NIAR 060005. origin: Japan. collected: 1983.
collector: Emoto. locality: Kaetsu, Kyoto Ken. Wild.
Seed.
- PI 507634 donor id: NIAR 060006. origin: Japan. collected: 1983.
collector: Hikuno. collector id: Hikuno-1. locality:
Miki, Hyogo Ken. Wild. Seed.
- PI 507635 donor id: NIAR 060007. origin: Japan. collected: 1983.
collector: Hikuno. collector id: Hikuno-2. locality:
Nishiki, Hyogo Ken. Wild. Seed.
- PI 507636 donor id: NIAR 060008. origin: Japan. collected: 1983.
collector: Hikuno. collector id: Hikuno-3. locality:
Kobe, Hyogo Ken. Wild. Seed.

PI 507581 to 507669-continued

- PI 507637 donor id: NIAR 060009. origin: Japan. collected: 1983.
collector: Hikuno. collector id: Hikuno-4. locality:
Kobe, Hyogo Ken. Wild. Seed.
- PI 507638 donor id: NIAR 060010. origin: Japan. collected: 1983.
collector: Hikuno. collector id: Hikuno-5. locality:
Kakogawa, Hyogo Ken. Wild. Seed.
- PI 507639 donor id: NIAR 060011. origin: Japan. collected: 1983.
collector: Hikuno. collector id: Hikuno-6. locality:
Ono, Hyogo Ken. Wild. Seed.
- PI 507640 donor id: NIAR 060013. origin: Japan. collected: 1983.
collector: Hikuno. collector id: Hikuno-8. locality:
Kawanishi, Hyogo Ken. Wild. Seed.
- PI 507641 donor id: NIAR 060014. origin: Japan. collected: 1983.
collector: Hikuno. collector id: Hikuno-9. locality:
Yoka, Hyogo Ken. Wild. Seed.
- PI 507642 donor id: NIAR 060015. origin: Japan. collected: 1983.
collector: Hikuno. collector id: Hikuno-10. locality:
Hidaka, Hyogo Ken. Wild. Seed.
- PI 507643 donor id: NIAR 070002. origin: Japan. collected: 1983.
collector: Utsunomiya. collector id: Utsunomiya-2.
locality: Hojo, Ehime Ken. Wild. Seed.
- PI 507644 donor id: NIAR 070003. origin: Japan. collected: 1983.
collector: Utsunomiya. collector id: Utsunomiya-3.
locality: Matsuyama, Ehime Ken. Wild. Seed.
- PI 507645 donor id: NIAR 070004. origin: Japan. collected: 1983.
collector: Koyama. locality: Ishii, Tokushima Ken.
Wild. Seed.
- PI 507646 donor id: NIAR 080001. origin: Japan. collected: 1983.
collector: Sadahira. locality: Fukuyama, Hiroshima Ken.
Wild. Seed.
- PI 507647 donor id: NIAR 080002. origin: Japan. collected: 1983.
collector: Ishida. locality: Sanyok, Okayama Ken. Wild.
Seed.
- PI 507648 donor id: NIAR 080003. origin: Japan. collected: 1983.
collector: Mizushima. collector id: Mizushima-1.
locality: Kume, Okayama Ken. Wild. Seed.
- PI 507649 donor id: NIAR 080006. origin: Japan. collected: 1983.
collector: Mizushima. collector id: Mizushima-2.
locality: Kume, Okayama Ken. Wild. Seed.

PI 507581 to 507669-continued

- PI 507650 donor id: NIAR 080007. origin: Japan. collected: 1984.
collector: Ohtagaki. locality: Tottori, Tottori Ken.
Wild. Seed.
- PI 507651 donor id: NIAR 080004. origin: Japan. collected: 1983.
collector: Fujioka. locality: Yamaguchi, Yamaguchi Ken.
Wild. Seed.
- PI 507652 donor id: NIAR 080005. origin: Japan. collected: 1983.
collector: Matsunaga. locality: Ogori, Yamaguchi Ken.
Wild. Seed.
- PI 507653 donor id: NIAR 090001. origin: Japan. collected: 1983.
collector: Ohsumi. locality: Oki, Fukuoka Ken. Wild.
Seed.
- PI 507654 donor id: NIAR 090002. origin: Japan. collected: 1983.
collector: Furukawa. locality: Saga, Saga Ken. Wild.
Seed.
- PI 507655 donor id: NIAR 090010. origin: Japan. collected: 1983.
collector: Funaba. collector id: Funaba-3. locality:
Ashibe, Nagasaki Ken. Wild. Seed.
- PI 507656 donor id: NIAR 090011. origin: Japan. collected: 1983.
collector: Funaba. collector id: Funaba-4. locality:
Katumo, Nagasaki Ken. Wild. Seed.
- PI 507657 donor id: NIAR 090003. origin: Japan. collected: 1983.
collector: Higashi. collector id: Higashi-1. locality:
Kurino, Kagoshima Ken. Wild. Seed.
- PI 507658 donor id: NIAR 090004. origin: Japan. collected: 1983.
collector: Higashi. collector id: Higashi-2. locality:
Izumi, Kagoshima Ken. Wild. Seed.
- PI 507659 donor id: NIAR 090005. origin: Japan. collected: 1983.
collector: Higashi. collector id: Higashi-3. locality:
Hishika, Kagoshima Ken. Wild. Seed.
- PI 507660 donor id: NIAR 090014. origin: Japan. collected: 1983.
collector: Hiramine. collector id: Hiramine-1.
locality: Satuma, Kagoshima Ken. Wild. Seed.
- PI 507661 donor id: NIAR 090017. origin: Japan. collected: 1983.
collector: Hidaka. collector id: Hidaka-1. locality:
Kurino, Kagoshima Ken. Wild. Seed.
- PI 507662 donor id: NIAR 090019. origin: Japan. collected: 1983.
collector: Shinchi. locality: Koyama, Kagoshima Ken.
Wild. Seed.

PI 507581 to 507669-continued

- PI 507663 donor id: NIAR 090020. origin: Japan. collected: 1983.
collector: Yoshikura. locality: Ijuin, Kagoshima Ken.
Wild. Seed.
- PI 507664 donor id: NIAR 090006. origin: Japan. collected: 1983.
collector: Seriguchi. collector id: Seriguchi-1.
locality: Seiwa, Kumamoto Ken. Wild. Seed.
- PI 507665 donor id: NIAR 090022. origin: Japan. collected: 1983.
collector: Kashihara. collector id: Kashihara-1.
locality: Aso, Kumamoto Ken. Wild. Seed.
- PI 507666 donor id: NIAR 090023. origin: Japan. collected: 1983.
collector: Kashihara. collector id: Kashihara-3.
locality: Aso, Kumamoto Ken. Wild. Seed.
- PI 507667 donor id: NIAR 090024. origin: Japan. collected: 1983.
collector: Kudou. collector id: Kudou-1. locality:
Ichinomi, Kumamoto Ken. Wild. Seed.
- PI 507668 donor id: NIAR 090025. origin: Japan. collected: 1983.
collector: Kudou. collector id: Kudou-2. locality:
Okahara, Kumamoto Ken. Wild. Seed.
- PI 507669 donor id: NIAR 090026. origin: Japan. collected: 1983.
collector: Kudou. collector id: Kudou-3. locality:
Uemur, Kumamoto Ken. Wild. Seed.

PI 507670 to 507718. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: VIR, Leningrad, Soviet Union. remarks: Samples received
at Soybean germplasm collection, Urbana, Illinois on November 20,
1986 and December 2, 1986. Received January 20, 1987.

- PI 507670 donor id: VIR 6106. origin: Soviet Union. cultivar:
Amurskaja 310. pedigree: Zaria/Gundzulinskaja 529.
Cultivar. Seed.
- PI 507671 donor id: VIR 6407. origin: Soviet Union. cultivar:
Aurika. Cultivar. Seed.
- PI 507672 donor id: VIR 6959. origin: Soviet Union. cultivar:
Aurora. Cultivar. Seed.
- PI 507673 donor id: VIR 9057. origin: Soviet Union. cultivar:
Belckaja 80. Cultivar. Seed.
- PI 507674 donor id: VIR 6404. origin: Soviet Union. cultivar:
Belosnezka. Cultivar. Seed.

PI 507670 to 507718-continued

- PI 507675 donor id: VIR 6990. origin: Soviet Union. cultivar: Beregovcanka. Cultivar. Seed.
- PI 507676 donor id: VIR 7081. origin: Soviet Union. cultivar: Colpon. Cultivar. Seed.
- PI 507677 donor id: VIR 8423. origin: Soviet Union. cultivar: Dalnevostocnaja 22. Cultivar. Seed.
- PI 507678 donor id: VIR 7199. origin: Soviet Union. cultivar: Fakel. Cultivar. Seed.
- PI 507679 donor id: VIR 8421. origin: Soviet Union. cultivar: Harkovcanka. Cultivar. Seed.
- PI 507680 donor id: VIR 6442. origin: Soviet Union. cultivar: Iskza. Cultivar. Seed.
- PI 507681 donor id: VIR 7217. origin: Soviet Union. cultivar: Jangiabad. Cultivar. Seed.
- PI 507682 donor id: VIR 6271. origin: Soviet Union. cultivar: Jantarnaja. pedigree: L 241/L 286//Zaria/Gundzulinskaja 529. Cultivar. Seed.
- PI 507683 donor id: VIR 7083. origin: Soviet Union. cultivar: Kartuli 7. Cultivar. Seed.
- PI 507684 donor id: VIR 8790. origin: Soviet Union. cultivar: Kazahstanskaja 5. Cultivar. Seed.
- PI 507685 donor id: VIR 7389. origin: Soviet Union. cultivar: Kirovogradskaja 5. Cultivar. Seed.
- PI 507686 donor id: VIR 7203. origin: Soviet Union. cultivar: Kisinjevskaja 19. Cultivar. Seed.
- PI 507687 donor id: VIR 8422. origin: Soviet Union. cultivar: Krapinka. Cultivar. Seed.
- PI 507688 donor id: VIR 4801. origin: Soviet Union. cultivar: KSHI 711. Cultivar. Seed.
- PI 507689 donor id: VIR 6465. origin: Soviet Union. cultivar: Lumina. Cultivar. Seed.
- PI 507690 donor id: VIR 6175. origin: Soviet Union. cultivar: Mocinave 7. Cultivar. Seed.
- PI 507691 donor id: VIR 7215. origin: Soviet Union. cultivar: Niva. Cultivar. Seed.

PI 507670 to 507718-continued

PI 507692 donor id: VIR 7213. origin: Soviet Union. cultivar: Orzu. Cultivar. Seed.

PI 507693 donor id: VIR 6234. origin: Soviet Union. cultivar: Peremoga. Cultivar. Seed.

PI 507694 donor id: VIR 7107. origin: Soviet Union. cultivar: Plamia. Cultivar. Seed.

PI 507695 donor id: VIR 7214. origin: Soviet Union. cultivar: Premera. Cultivar. Seed.

PI 507696 donor id: VIR 4167. origin: Soviet Union. cultivar: Primorskaja 529. other id: Gundzulinskaja 529. Cultivar. Seed.

PI 507697 donor id: VIR 6414. origin: Soviet Union. cultivar: Ranniaja 10. Cultivar. Seed.

PI 507698 donor id: VIR 9053. origin: Soviet Union. cultivar: Rassvet. Cultivar. Seed.

PI 507699 donor id: VIR 8537. origin: Soviet Union. cultivar: Senaki. Cultivar. Seed.

PI 507700 donor id: VIR 8776. origin: Soviet Union. cultivar: Seroglazka. Cultivar. Seed.

PI 507701 donor id: VIR 6928. origin: Soviet Union. cultivar: Skynteja. Cultivar. Seed.

PI 507702 donor id: VIR 7396. origin: Soviet Union. cultivar: Sputnik. Cultivar. Seed.

PI 507703 donor id: VIR 8778. origin: Soviet Union. cultivar: Strelka. Cultivar. Seed.

PI 507704 donor id: VIR 6405. origin: Soviet Union. cultivar: Tercinskaja 24. Cultivar. Seed.

PI 507705 donor id: VIR 7391. origin: Soviet Union. cultivar: Veselka. Cultivar. Seed.

PI 507706 donor id: VIR 6926. origin: Soviet Union. cultivar: Veselovskaia 1. Cultivar. Seed.

PI 507707 donor id: VIR 6917. origin: Soviet Union. cultivar: VIR 14. Cultivar. Seed.

PI 507708 donor id: VIR 6179. origin: Soviet Union. cultivar: VNIIMK 6. Cultivar. Seed.

PI 507670 to 507718-continued

- PI 507709 donor id: VIR 9052. origin: Soviet Union. cultivar: VNIIMK 15. Cultivar. Seed.
- PI 507710 donor id: VIR 6433. origin: Soviet Union. cultivar: VNIIS 1. Cultivar. Seed.
- PI 507711 donor id: VIR 6446. origin: Soviet Union. cultivar: VNIIS 2. Cultivar. Seed.
- PI 507712 donor id: VIR 7108. origin: Soviet Union. cultivar: Volna. Cultivar. Seed.
- PI 507713 donor id: VIR 6960. origin: Soviet Union. cultivar: Voshod. Cultivar. Seed.
- PI 507714 donor id: VIR 8777. origin: Soviet Union. cultivar: Vzljet. Cultivar. Seed.
- PI 507715 donor id: VIR 6441. origin: Soviet Union. cultivar: Zaznica. Cultivar. Seed.
- PI 507716 donor id: VIR 2977. origin: Korea, North. remarks: Local type. Cultivated. Seed.
- PI 507717 donor id: VIR 2978. origin: Korea, North. remarks: Local type. Cultivated. Seed.
- PI 507718 donor id: VIR 2980. origin: Korea, North. remarks: Local type. Cultivated. Seed.

PI 507719 to 507847. Glycine soja Siebold & Zucc. FABACEAE Wild soybean

Donated by: VIR, Leningrad, Soviet Union. remarks: Samples received at Soybean germplasm collection, Urbana, Illinois on November 20, 1986 and December 2, 1986. Received January 20, 1987.

- PI 507719 donor id: VIR 8426. origin: Soviet Union. other id: L 2. Wild. Seed.
- PI 507720 donor id: VIR 8427. origin: Soviet Union. other id: L 6. Wild. Seed.
- PI 507721 donor id: VIR 8428. origin: Soviet Union. other id: L 9. Wild. Seed.
- PI 507722 donor id: VIR 8801. origin: Soviet Union. other id: L 11. Wild. Seed.
- PI 507723 donor id: VIR 8802. origin: Soviet Union. other id: L 13. Wild. Seed.

PI 507719 to 507847-continued

PI 507724	donor id: VIR 8803. 14. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507725	donor id: VIR 8804. 15. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507726	donor id: VIR 8429. 16. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507727	donor id: VIR 8430. 17. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507728	donor id: VIR 8805. 20. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507729	donor id: VIR 8432. 23. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507730	donor id: VIR 8433. 30. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507731	donor id: VIR 8806. 35. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507732	donor id: VIR 8435. 39. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507733	donor id: VIR 8807. 43. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507734	donor id: VIR 8808. 48. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507735	donor id: VIR 8809. 49. locality: From Far East.	origin: Soviet Union.	other id: L Wild. Seed.
PI 507736	donor id: VIR 8436. 50. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507737	donor id: VIR 8810. 65. locality: From Far East.	origin: Soviet Union.	other id: L Wild. Seed.
PI 507738	donor id: VIR 8437. 67. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507739	donor id: VIR 8811. 70. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507740	donor id: VIR 8812. 74. Wild. Seed.	origin: Soviet Union.	other id: L

PI 507719 to 507847-continued

PI 507741	donor id: VIR 8813. 77. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507742	donor id: VIR 8438. 82. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507743	donor id: VIR 8439. 88. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507744	donor id: VIR 8440. 89. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507745	donor id: VIR 8441. 90. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507746	donor id: VIR 8442. 91. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507747	donor id: VIR 8443. 101. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507748	donor id: VIR 8814. 103. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507749	donor id: VIR 8445. 104. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507750	donor id: VIR 8446. 105. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507751	donor id: VIR 8447. 108. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507752	donor id: VIR 8448. 110. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507753	donor id: VIR 8449. 153. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507754	donor id: VIR 8815. 156. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507755	donor id: VIR 8816. 161. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507756	donor id: VIR 8450. 209. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507757	donor id: VIR 8451. 214. locality: From Far East. Wild. Seed.	origin: Soviet Union.	other id: L

PI 507719 to 507847-continued

PI 507758 donor id: VIR 8452. origin: Soviet Union. other id: L
215. Wild. Seed.

PI 507759 donor id: VIR 8453. origin: Soviet Union. other id: L
219. Wild. Seed.

PI 507760 donor id: VIR 8454. origin: Soviet Union. other id: L
220. Wild. Seed.

PI 507761 donor id: VIR 8455. origin: Soviet Union. other id: L
227. Wild. Seed.

PI 507762 donor id: VIR 8456. origin: Soviet Union. other id: L
229. Wild. Seed.

PI 507763 donor id: VIR 8817. origin: Soviet Union. other id: L
239. Wild. Seed.

PI 507764 donor id: VIR 8818. origin: Soviet Union. other id: L
243. Wild. Seed.

PI 507765 donor id: VIR 8457. origin: Soviet Union. other id: L
247. Wild. Seed.

PI 507766 donor id: VIR 8458. origin: Soviet Union. other id: L
248. Wild. Seed.

PI 507767 donor id: VIR 8819. origin: Soviet Union. other id: L
251. locality: From Far East. Wild. Seed.

PI 507768 donor id: VIR 8459. origin: Soviet Union. other id: L
301. locality: From Far East. Wild. Seed.

PI 507769 donor id: VIR 8460. origin: Soviet Union. other id: L
302. Wild. Seed.

PI 507770 donor id: VIR 8461. origin: Soviet Union. other id: L
303. Wild. Seed.

PI 507771 donor id: VIR 8462. origin: Soviet Union. other id: L
304. Wild. Seed.

PI 507772 donor id: VIR 8463. origin: Soviet Union. other id: L
305. Wild. Seed.

PI 507773 donor id: VIR 8464. origin: Soviet Union. other id: L
307. Wild. Seed.

PI 507774 donor id: VIR 8465. origin: Soviet Union. other id: L
308. Wild. Seed.

PI 507719 to 507847-continued

PI 507775	donor id: VIR 8466. 312. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507776	donor id: VIR 8467. 313. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507777	donor id: VIR 8468. 315. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507778	donor id: VIR 8469. 317. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507779	donor id: VIR 8470. 318. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507780	donor id: VIR 8820. 402. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507781	donor id: VIR 8821. 404. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507782	donor id: VIR 8471. 411. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507783	donor id: VIR 8472. 412. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507784	donor id: VIR 8473. 413. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507785	donor id: VIR 8474. 414. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507786	donor id: VIR 8475. 415. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507787	donor id: VIR 8822. 418. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507788	donor id: VIR 8823. 430. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507789	donor id: VIR 8824. 451. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507790	donor id: VIR 8825. 458. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507791	donor id: VIR 8826. 459. Wild. Seed.	origin: Soviet Union.	other id: L

PI 507719 to 507847-continued

PI 507792	donor id: VIR 8827. 461. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507793	donor id: VIR 8828. 462. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507794	donor id: VIR 9037. 463. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507795	donor id: VIR 8829. 466. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507796	donor id: VIR 8830. 467. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507797	donor id: VIR 8831. 501. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507798	donor id: VIR 8832. 502. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507799	donor id: VIR 8833. 503. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507800	donor id: VIR 8834. 504. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507801	donor id: VIR 8835. 505. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507802	donor id: VIR 8836. 515. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507803	donor id: VIR 8837. 520. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507804	donor id: VIR 8838. 523. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507805	donor id: VIR 8839. 526. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507806	donor id: VIR 8840. 527. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507807	donor id: VIR 8841. 532. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507808	donor id: VIR 8842. 533. Wild. Seed.	origin: Soviet Union.	other id: L

PI 507719 to 507847-continued

PI 507809	donor id: VIR 8843. 541. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507810	donor id: VIR 8844. 548. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507811	donor id: VIR 8907. 552. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507812	donor id: VIR 9038. 553. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507813	donor id: VIR 8908. 555. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507814	donor id: VIR 8909. 557. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507815	donor id: VIR 8910. 558. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507816	donor id: VIR 8911. 559. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507817	donor id: VIR 8912. 560. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507818	donor id: VIR 8913. 561. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507819	donor id: VIR 8914. 562. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507820	donor id: VIR 8915. 563. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507821	donor id: VIR 8916. 564. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507822	donor id: VIR 9050. 565. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507823	donor id: VIR 9039. 566. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507824	donor id: VIR 8917. 567. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507825	donor id: VIR 9040. 568. Wild. Seed.	origin: Soviet Union.	other id: L

PI 507719 to 507847-continued

PI 507826	donor id: VIR 8918. 569. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507827	donor id: VIR 9041. 572. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507828	donor id: VIR 9042. 573. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507829	donor id: VIR 9043. 574. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507830	donor id: VIR 9044. 575. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507831	donor id: VIR 8919. 576. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507832	donor id: VIR 8920. 577. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507833	donor id: VIR 8921. 578. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507834	donor id: VIR 8922. 579. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507835	donor id: VIR 8527. 582. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507836	donor id: VIR 8923. 583. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507837	donor id: VIR 8924. 584. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507838	donor id: VIR 9045. 585. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507839	donor id: VIR 8528. 586. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507840	donor id: VIR 8529. 588. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507841	donor id: VIR 8530. 589. Wild. Seed.	origin: Soviet Union.	other id: L
PI 507842	donor id: VIR 8925. 590. Wild. Seed.	origin: Soviet Union.	other id: L

PI 507719 to 507847-continued

- PI 507843 donor id: VIR 9046. origin: Soviet Union. other id: L
592. Wild. Seed.
- PI 507844 donor id: VIR 9047. origin: Soviet Union. other id: L
593. Wild. Seed.
- PI 507845 donor id: VIR 9048. origin: Soviet Union. other id: L
596. Wild. Seed.
- PI 507846 donor id: VIR 9049. origin: Soviet Union. other id: L
597. Wild. Seed.
- PI 507847 donor id: VIR 8926. origin: Soviet Union. other id: L
598. Wild. Seed.

PI 507848 to 507851. *Beta vulgaris* var. *conditiva* Alef. CHENOPODIACEAE

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

- PI 507848 donor id: 3700001. origin: Hungary. collected: 1983.
locality: Penyige. Landrace. Seed.
- PI 507849 donor id: 3700002. origin: Hungary. collected: 1983.
locality: Hosszupalyi. Landrace. Seed.
- PI 507850 donor id: 3700003. origin: Hungary. collected: 1983.
locality: Nagykallo. Landrace. Seed.
- PI 507851 donor id: 3700004. origin: Hungary. collected: 1983.
locality: Nagykallo. Landrace. Seed.

PI 507852. *Brassica oleracea* var. *botrytis* L. BRASSICACEAE

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

donor id: 3800001. origin: Hungary. collected: 1983.
locality: Szolnok. Cultivar. Seed.

PI 507853 to 507854. *Brassica oleracea* var. *capitata* L. BRASSICACEAE
Cabbage

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

- PI 507853 donor id: 3800002. origin: Hungary. collected: 1983.
locality: Szolnok. Cultivar. Seed.

PI 507853 to 507854-continued

PI 507854 donor id: 3800003. origin: Hungary. collected: 1983.
locality: Szolnok. Cultivar. Seed.

PI 507855. *Brassica oleracea* var. *gemmifera* DC. BRASSICACEAE Brussel
sprouts

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

donor id: 3800004. origin: Hungary. collected: 1983.
locality: Ngiretelek. Landrace. Seed.

PI 507856 to 507857. *Brassica oleracea* var. *sabauda* L. BRASSICACEAE
Savoy cabbage

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

PI 507856 donor id: 3800005. origin: Hungary. collected: 1983.
locality: Szolnok. Cultivar. Seed.

PI 507857 donor id: 3800006. origin: Hungary. collected: 1983.
locality: Szolnok. Cultivar. Seed.

PI 507858 to 507869. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
CUCURBITACEAE Watermelon

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

PI 507858 donor id: 2700781. origin: Hungary. collected: 1983.
locality: Nagycsenkesz. Landrace. Seed.

PI 507859 donor id: 2700782. origin: Hungary. collected: 1983.
locality: Nagycsenkesz. Landrace. Seed.

PI 507860 donor id: 2700783. origin: Hungary. collected: 1983.
locality: Nagykallo. Landrace. Seed.

PI 507861 donor id: 2700784. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507862 donor id: 2700785. origin: Hungary. collected: 1983.
locality: Nyirtelek. Landrace. Seed.

PI 507863 donor id: 2700786. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507858 to 507869-continued

- PI 507864 donor id: 2700787. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507865 donor id: 2700788. origin: Hungary. collected: 1983.
locality: Nyirbator. Landrace. Seed.
- PI 507866 donor id: 2700789. origin: Hungary. collected: 1983.
locality: Nyirtelek. Landrace. Seed.
- PI 507867 donor id: 2701027. origin: Hungary. collected: 1983.
locality: Nyirtelek. Landrace. Seed.
- PI 507868 donor id: 2701028. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507869 donor id: 2701030. origin: Hungary. collected: 1983.
locality: Nagyecsed. Landrace. Seed.

PI 507870 to 507873. Cucumis melo L. CUCURBITACEAE Muskmelon

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

- PI 507870 donor id: 2700793. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507871 donor id: 2700794. origin: Hungary. collected: 1983.
locality: Nyirbator. Landrace. Seed.
- PI 507872 donor id: 2701034. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507873 donor id: 2701035. origin: Hungary. collected: 1983.
locality: Nagycsenkesz. Landrace. Seed.

PI 507874 to 507876. Cucumis sativus L. CUCURBITACEAE Cucumber

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

- PI 507874 donor id: 2700817. origin: Hungary. collected: 1983.
locality: Nagyecsed. Landrace. Seed.
- PI 507875 donor id: 2700999. origin: Hungary. collected: 1983.
locality: Tiszainoka. Landrace. Seed.
- PI 507876 donor id: 2701000. origin: Hungary. collected: 1983.
locality: Szendehely. Landrace. Seed.

PI 507877 to 507884. *Cucurbita maxima* Duch. CUCURBITACEAE Winter squash

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q., Taposzele, Hungary. Received March 1987.

PI 507877 donor id: 2700815. origin: Hungary. collected: 1983. locality: Nagykallo. Landrace. Seed.

PI 507878 donor id: 2700883. origin: Hungary. collected: 1983. locality: Hosszupalyi. Landrace. Seed.

PI 507879 donor id: 2700887. origin: Hungary. collected: 1983. locality: Debrecen. Landrace. Seed.

PI 507880 donor id: 2700889. origin: Hungary. collected: 1983. locality: Nagykallo. Landrace. Seed.

PI 507881 donor id: 2701054. origin: Hungary. collected: 1983. locality: Bonnya. Landrace. Seed.

PI 507882 donor id: 2701055. origin: Hungary. collected: 1983. locality: Tiszainoka. Seed.

PI 507883 donor id: 2701064. origin: Hungary. collected: 1983. locality: Bugac. Landrace. Seed.

PI 507884 donor id: 2701065. origin: Hungary. collected: 1983. locality: Nagykallo. Landrace. Seed.

PI 507885 to 507888. *Cucurbita pepo* L. CUCURBITACEAE Pumpkin

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q., Taposzele, Hungary. Received March 1987.

PI 507885 donor id: 2700777. origin: Hungary. collected: 1983. locality: Nyiregyhaza. Landrace. Seed.

PI 507886 donor id: 2701060. origin: Hungary. collected: 1983. locality: Janoshalma. Landrace. Seed.

PI 507887 donor id: 2701061. origin: Hungary. collected: 1983. locality: Isztimer. Landrace. Seed.

PI 507888 donor id: 2701062. origin: Hungary. collected: 1983. locality: Csehimindszent. Landrace. Seed.

PI 507889 to 507925. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q., Taposzele, Hungary. Received March 1987.

PI 507889 to 507925-continued

- PI 507889 donor id: 3100391. origin: Hungary. collected: 1983.
locality: Tiszakarad. Landrace. Seed.
- PI 507890 donor id: 3100392. origin: Hungary. collected: 1983.
locality: Tiszakarad. Landrace. Seed.
- PI 507891 donor id: 3100393. origin: Hungary. collected: 1983.
locality: Kecskemet Bugac. Landrace. Seed.
- PI 507892 donor id: 3100394. origin: Hungary. collected: 1983.
locality: Budakalasz. Landrace. Seed.
- PI 507893 donor id: 3100395. origin: Hungary. collected: 1983.
locality: Budakalasz. Landrace. Seed.
- PI 507894 donor id: 3100397. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507895 donor id: 3100398. origin: Hungary. collected: 1983.
locality: Feherayarmat. Landrace. Seed.
- PI 507896 donor id: 3100399. origin: Hungary. collected: 1983.
locality: Penyige. Landrace. Seed.
- PI 507897 donor id: 3100400. origin: Hungary. collected: 1983.
locality: Debrecen. Landrace. Seed.
- PI 507898 donor id: 3100401. origin: Hungary. collected: 1983.
locality: Hosszupalyi. Landrace. Seed.
- PI 507899 donor id: 3100402. origin: Hungary. collected: 1983.
locality: Nagykallo. Landrace. Seed.
- PI 507900 donor id: 3100403. origin: Hungary. collected: 1983.
locality: Debrecen. Landrace. Seed.
- PI 507901 donor id: 3100404. origin: Hungary. collected: 1983.
locality: Hosszupalyi. Landrace. Seed.
- PI 507902 donor id: 3100407. origin: Hungary. collected: 1983.
locality: Budakalasz. Landrace. Seed.
- PI 507903 donor id: 3100516. origin: Hungary. collected: 1983.
locality: Gyoro. Landrace. Seed.
- PI 507904 donor id: 3100517. origin: Hungary. collected: 1983.
locality: Kemence. Landrace. Seed.
- PI 507905 donor id: 3100518. origin: Hungary. collected: 1983.
locality: Ilk. Landrace. Seed.

PI 507889 to 507925-continued

- PI 507906 donor id: 3100523. origin: Hungary. collected: 1983.
locality: Budakalasz. Landrace. Seed.
- PI 507907 donor id: 3100524. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507908 donor id: 3100525. origin: Hungary. collected: 1983.
locality: Gacsaly. Landrace. Seed.
- PI 507909 donor id: 3100526. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507910 donor id: 3100527. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507911 donor id: 3100528. origin: Hungary. collected: 1983.
locality: Milota. Landrace. Seed.
- PI 507912 donor id: 3100529. origin: Hungary. collected: 1983.
locality: Nyirkarasz. Landrace. Seed.
- PI 507913 donor id: 3100530. origin: Hungary. collected: 1983.
locality: Budakalasz. Landrace. Seed.
- PI 507914 donor id: 3100531. origin: Hungary. collected: 1983.
locality: Budakalasz. Landrace. Seed.
- PI 507915 donor id: 3100532. origin: Hungary. collected: 1983.
locality: Budakalasz. Landrace. Seed.
- PI 507916 donor id: 3100533. origin: Hungary. collected: 1983.
locality: Budakalasz. Landrace. Seed.
- PI 507917 donor id: 3100534. origin: Hungary. collected: 1983.
locality: Budakalasz. Landrace. Seed.
- PI 507918 donor id: 3100535. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507919 donor id: 3100536. origin: Hungary. collected: 1983.
locality: Gacsaly. Landrace. Seed.
- PI 507920 donor id: 3100537. origin: Hungary. collected: 1983.
locality: Gacsaly. Landrace. Seed.
- PI 507921 donor id: 3100538. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507922 donor id: 3100539. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507889 to 507925-continued

PI 507923 donor id: 3100540. origin: Hungary. collected: 1983.
locality: Levelek. Landrace. Seed.

PI 507924 donor id: 3100541. origin: Hungary. collected: 1983.
locality: Miskolc. Landrace. Seed.

PI 507925 donor id: 3100542. origin: Hungary. collected: 1983.
locality: Kecskemet. Landrace. Seed.

PI 507926 to 507930. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

PI 507926 donor id: 2500144. origin: Hungary. collected: 1983.
locality: Nagybugac. Landrace. Seed.

PI 507927 donor id: 2500259. origin: Hungary. collected: 1983.
locality: Kisbarapati. Landrace. Seed.

PI 507928 donor id: 2500260. origin: Hungary. collected: 1983.
locality: Kisbarapati. Landrace. Seed.

PI 507929 donor id: 2500261. origin: Hungary. collected: 1983.
locality: Lapafo. Landrace. Seed.

PI 507930 donor id: 2500267. origin: Hungary. collected: 1983.
locality: Szolnok. Landrace. Seed.

PI 507931. *Lathyrus sativus* L. FABACEAE Grass pea

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

donor id: 1400421. origin: Hungary. collected: 1983.
locality: Ujszasz. Landrace. Seed.

PI 507932. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

donor id: 1600166. origin: Hungary. collected: 1983.
locality: Fehergyarmat. Landrace. Seed.

PI 507933. *Panicum miliaceum* L. POACEAE Proso millet

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

donor id: 0800215. **origin:** Hungary. **collected:** 1983.
locality: Miskolc. Landrace. Seed.

PI 507934 to 507961. *Papaver somniferum* L. PAPAVERACEAE Opium poppy

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

PI 507934 **donor id:** 3200612. **origin:** Hungary. **collected:** 1983.
locality: Nagykallo. Landrace. Seed.

PI 507935 **donor id:** 3200620. **origin:** Hungary. **collected:** 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507936 **donor id:** 3200621. **origin:** Hungary. **collected:** 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507937 **donor id:** 3200622. **origin:** Hungary. **collected:** 1983.
locality: Nagycserkesz. Landrace. Seed.

PI 507938 **donor id:** 3200623. **origin:** Hungary. **collected:** 1983.
locality: Nagykallo. Landrace. Seed.

PI 507939 **donor id:** 3200625. **origin:** Hungary. **collected:** 1983.
locality: Nyirbator. Landrace. Seed.

PI 507940 **donor id:** 3200626. **origin:** Hungary. **collected:** 1983.
locality: Nyirtelek. Landrace. Seed.

PI 507941 **donor id:** 3200627. **origin:** Hungary. **collected:** 1983.
locality: Nyirtelek. Landrace. Seed.

PI 507942 **donor id:** 3200628. **origin:** Hungary. **collected:** 1983.
locality: Oros. Landrace. Seed.

PI 507943 **donor id:** 3200629. **origin:** Hungary. **collected:** 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507944 **donor id:** 3200630. **origin:** Hungary. **collected:** 1983.
locality: Nagykallo. Landrace. Seed.

PI 507945 **donor id:** 3200631. **origin:** Hungary. **collected:** 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507946 **donor id:** 3200632. **origin:** Hungary. **collected:** 1983.
locality: Debrecen. Landrace. Seed.

PI 507934 to 507961-continued

- PI 507947 donor id: 3200633. origin: Hungary. collected: 1983.
locality: Hosszupalyi. Landrace. Seed.
- PI 507948 donor id: 3200634. origin: Hungary. collected: 1983.
locality: Nagykallo. Landrace. Seed.
- PI 507949 donor id: 3200646. origin: Hungary. collected: 1983.
locality: Hovej. Landrace. Seed.
- PI 507950 donor id: 3200647. origin: Hungary. collected: 1983.
locality: Daka. Landrace. Seed.
- PI 507951 donor id: 3200648. origin: Hungary. collected: 1983.
locality: Tiszakarad. Landrace. Seed.
- PI 507952 donor id: 3200653. origin: Hungary. collected: 1983.
locality: Kisbarapati. Landrace. Seed.
- PI 507953 donor id: 3200654. origin: Hungary. collected: 1983.
locality: Gacsaly. Landrace. Seed.
- PI 507954 donor id: 3200655. origin: Hungary. collected: 1983.
locality: Gacsaly. Landrace. Seed.
- PI 507955 donor id: 3200656. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507956 donor id: 3200657. origin: Hungary. collected: 1983.
locality: Nagykallo. Landrace. Seed.
- PI 507957 donor id: 3200658. origin: Hungary. collected: 1983.
locality: Oroshaza. Landrace. Seed.
- PI 507958 donor id: 3200660. origin: Hungary. collected: 1983.
locality: Kiskoros Erdoteleki. Landrace. Seed.
- PI 507959 donor id: 3200661. origin: Hungary. collected: 1983.
locality: Isztimer. Landrace. Seed.
- PI 507960 donor id: 3200662. origin: Hungary. collected: 1983.
locality: Val. Landrace. Seed.
- PI 507961 donor id: 3200663. origin: Hungary. collected: 1983.
locality: Zelickistelek. Landrace. Seed.

PI 507962 to 507967. *Petroselinum crispum* (Miller) Nym. ex A. W. Hill
APIACEAE Parsley

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

PI 507962 to 507967-continued

- PI 507962 donor id: 2300105. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507963 donor id: 2300106. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507964 donor id: 2300107. origin: Hungary. collected: 1983.
locality: Hajdubagos. Landrace. Seed.
- PI 507965 donor id: 2300108. origin: Hungary. collected: 1983.
locality: Nyirtelek. Landrace. Seed.
- PI 507966 donor id: 2300109. origin: Hungary. collected: 1983.
locality: Penyige. Landrace. Seed.
- PI 507967 donor id: 2300110. origin: Hungary. collected: 1983.
locality: Nagykallo. Landrace. Seed.

PI 507968 to 507971. *Phaseolus coccineus* L. FABACEAE Scarlet runner
bean

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

- PI 507968 donor id: 0902345. origin: Hungary. collected: 1983.
locality: Fehergyarmat. Landrace. Seed.
- PI 507969 donor id: 0902554. origin: Hungary. collected: 1983.
locality: Nyirtelek. Landrace. Seed.
- PI 507970 donor id: 0902555. origin: Hungary. collected: 1983.
locality: Nyirtelek. Landrace. Seed.
- PI 507971 donor id: 0902556. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507972 to 508052. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

- PI 507972 donor id: 0902001. origin: Hungary. collected: 1983.
locality: Gyoma. Landrace. Seed.
- PI 507973 donor id: 0902002. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507974 donor id: 0902003. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507972 to 508052-continued

- PI 507975 donor id: 0902004. origin: Hungary. collected: 1983.
locality: Nagykallo. Landrace. Seed.
- PI 507976 donor id: 0902005. origin: Hungary. collected: 1983.
locality: Nyirbator. Landrace. Seed.
- PI 507977 donor id: 0902006. origin: Hungary. collected: 1983.
locality: Nyirtelek. Landrace. Seed.
- PI 507978 donor id: 0902007. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507979 donor id: 0902008. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507980 donor id: 0902009. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507981 donor id: 0902010. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507982 donor id: 0902011. origin: Hungary. collected: 1983.
locality: Hosszupalyi. Landrace. Seed.
- PI 507983 donor id: 0902012. origin: Hungary. collected: 1983.
locality: Ilk. Landrace. Seed.
- PI 507984 donor id: 0902013. origin: Hungary. collected: 1983.
locality: Vasszilvagy. Landrace. Seed.
- PI 507985 donor id: 0902337. origin: Hungary. collected: 1983.
locality: Nagyecsed. Landrace. Seed.
- PI 507986 donor id: 0902338. origin: Hungary. collected: 1983.
locality: Nagyecsed. Landrace. Seed.
- PI 507987 donor id: 0902339. origin: Hungary. collected: 1983.
locality: Nyirtelek. Landrace. Seed.
- PI 507988 donor id: 0902340. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507989 donor id: 0902341. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507990 donor id: 0902342. origin: Hungary. collected: 1983.
locality: Tiszakarad. Landrace. Seed.
- PI 507991 donor id: 0902343. origin: Hungary. collected: 1983.
locality: Tiszakarad. Landrace. Seed.

PI 507972 to 508052-continued

- PI 507992 donor id: 0902344. origin: Hungary. collected: 1983.
locality: Borsosbereny. Landrace. Seed.
- PI 507993 donor id: 0902508. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507994 donor id: 0902509. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507995 donor id: 0902510. origin: Hungary. collected: 1983.
locality: Penyige. Landrace. Seed.
- PI 507996 donor id: 0902511. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.
- PI 507997 donor id: 0902512. origin: Hungary. collected: 1983.
locality: Hosszupalyi. Landrace. Seed.
- PI 507998 donor id: 0902513. origin: Hungary. collected: 1983.
locality: Nograd. Landrace. Seed.
- PI 507999 donor id: 0902514. origin: Hungary. collected: 1983.
locality: Agasegyhaza. Landrace. Seed.
- PI 508000 donor id: 0902515. origin: Hungary. collected: 1983.
locality: Borsosbereny. Landrace. Seed.
- PI 508001 donor id: 0902516. origin: Hungary. collected: 1983.
locality: Vid. Landrace. Seed.
- PI 508002 donor id: 0902517. origin: Hungary. collected: 1983.
locality: Vid. Landrace. Seed.
- PI 508003 donor id: 0902518. origin: Hungary. collected: 1983.
locality: Daka. Landrace. Seed.
- PI 508004 donor id: 0902519. origin: Hungary. collected: 1983.
locality: Daka. Landrace. Seed.
- PI 508005 donor id: 0902520. origin: Hungary. collected: 1983.
locality: Vid. Landrace. Seed.
- PI 508006 donor id: 0902521. origin: Hungary. collected: 1983.
locality: Tiszakarad. Landrace. Seed.
- PI 508007 donor id: 0902522. origin: Hungary. collected: 1983.
locality: Gyoro. Landrace. Seed.
- PI 508008 donor id: 0902523. origin: Hungary. collected: 1983.
locality: Hovej. Landrace. Seed.

PI 507972 to 508052-continued

PI 508009 donor id: 0902524. origin: Hungary. collected: 1983.
locality: Cirak. Landrace. Seed.

PI 508010 donor id: 0902525. origin: Hungary. collected: 1983.
locality: Hovej. Landrace. Seed.

PI 508011 donor id: 0902526. origin: Hungary. collected: 1983.
locality: Nadudvar. Landrace. Seed.

PI 508012 donor id: 0902535. origin: Hungary. collected: 1983.
locality: Monoszlo. Landrace. Seed.

PI 508013 donor id: 0902536. origin: Hungary. collected: 1983.
locality: Tiszainoka. Landrace. Seed.

PI 508014 donor id: 0902537. origin: Hungary. collected: 1983.
locality: Nagybugac. Landrace. Seed.

PI 508015 donor id: 0902538. origin: Hungary. collected: 1983.
locality: Bonnya. Landrace. Seed.

PI 508016 donor id: 0902539. origin: Hungary. collected: 1983.
locality: Igal. Landrace. Seed.

PI 508017 donor id: 0902540. origin: Hungary. collected: 1983.
locality: Igal. Landrace. Seed.

PI 508018 donor id: 0902541. origin: Hungary. collected: 1983.
locality: Igal. Landrace. Seed.

PI 508019 donor id: 0902542. origin: Hungary. collected: 1983.
locality: Igal. Landrace. Seed.

PI 508020 donor id: 0902543. origin: Hungary. collected: 1983.
locality: Szakcs. Landrace. Seed.

PI 508021 donor id: 0902544. origin: Hungary. collected: 1983.
locality: Szakcs. Landrace. Seed.

PI 508022 donor id: 0902545. origin: Hungary. collected: 1983.
locality: Szakcs. Landrace. Seed.

PI 508023 donor id: 0902546. origin: Hungary. collected: 1983.
locality: Somogyszil. Landrace. Seed.

PI 508024 donor id: 0902547. origin: Hungary. collected: 1983.
locality: Tolnanemedi. Landrace. Seed.

PI 508025 donor id: 0902548. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 507972 to 508052-continued

PI 508026 donor id: 0902549. origin: Hungary. collected: 1983.
locality: Nagykallo. Landrace. Seed.

PI 508027 donor id: 0902560. origin: Hungary. collected: 1983.
locality: Nyiregyhaza. Landrace. Seed.

PI 508028 donor id: 0902561. origin: Hungary. collected: 1983.
locality: Napkor. Landrace. Seed.

PI 508029 donor id: 0902562. origin: Hungary. collected: 1983.
locality: Miskolc. Landrace. Seed.

PI 508030 donor id: 0902563. origin: Hungary. collected: 1983.
locality: Miskolc. Landrace. Seed.

PI 508031 donor id: 0902564. origin: Hungary. collected: 1983.
locality: Miskolc. Landrace. Seed.

PI 508032 donor id: 0902565. origin: Hungary. collected: 1983.
locality: Miskolc. Landrace. Seed.

PI 508033 donor id: 0902649. origin: Hungary. collected: 1983.
locality: Medgyesegyhaza. Landrace. Seed.

PI 508034 donor id: 0902650. origin: Hungary. collected: 1983.
locality: Oroshaza. Landrace. Seed.

PI 508035 donor id: 0902651. origin: Hungary. collected: 1983.
locality: Medgyesegyhaza. Landrace. Seed.

PI 508036 donor id: 0902652. origin: Hungary. collected: 1983.
locality: Nograd. Landrace. Seed.

PI 508037 donor id: 0902653. origin: Hungary. collected: 1983.
locality: Vid. Landrace. Seed.

PI 508038 donor id: 0902654. origin: Hungary. collected: 1983.
locality: Miskolc. Landrace. Seed.

PI 508039 donor id: 0902655. origin: Hungary. collected: 1983.
locality: Isztimer. Landrace. Seed.

PI 508040 donor id: 0902656. origin: Hungary. collected: 1983.
locality: Csehimindszent. Landrace. Seed.

PI 508041 donor id: 0902657. origin: Hungary. collected: 1983.
locality: Hovej. Landrace. Seed.

PI 508042 donor id: 0902658. origin: Hungary. collected: 1983.
locality: Moha. Landrace. Seed.

PI 507972 to 508052-continued

- PI 508043 donor id: 0902659. origin: Hungary. collected: 1983.
locality: Gyoro. Landrace. Seed.
- PI 508044 donor id: 0902660. origin: Hungary. collected: 1983.
locality: Kapuvar. Landrace. Seed.
- PI 508045 donor id: 0902661. origin: Hungary. collected: 1983.
locality: Kapuvar. Landrace. Seed.
- PI 508046 donor id: 0902662. origin: Hungary. collected: 1983.
locality: Cirak. Landrace. Seed.
- PI 508047 donor id: 0902663. origin: Hungary. collected: 1983.
locality: Cirak. Landrace. Seed.
- PI 508048 donor id: 0902664. origin: Hungary. collected: 1983.
locality: Csehi. Landrace. Seed.
- PI 508049 donor id: 0902671. origin: Hungary. collected: 1983.
locality: Kajaszó. Landrace. Seed.
- PI 508050 donor id: 0902672. origin: Hungary. collected: 1983.
locality: Kajaszó. Landrace. Seed.
- PI 508051 donor id: 0902673. origin: Hungary. collected: 1983.
locality: Janoshalma. Landrace. Seed.
- PI 508052 donor id: 0902674. origin: Hungary. collected: 1983.
locality: Lovasbereny. Landrace. Seed.

PI 508053. *Raphanus sativus* L. BRASSICACEAE Radish

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

donor id: 2400109. origin: Hungary. collected: 1983.
locality: Tiszainoka. Landrace. Seed.

PI 508054. *Ricinus communis* L. EUPHORBIACEAE Castorbean

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

donor id: 3400003. origin: Hungary. collected: 1983.
locality: Tizsakarad. Landrace. Seed.

PI 508055. *Setaria italica* (L.) Beauv. POACEAE Foxtail millet

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

donor id: 0800200. **origin:** Hungary. **collected:** 1983.
locality: Nagykallo. Landrace. Seed.

PI 508056 to 508058. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

PI 508056 **donor id:** 0700683. **origin:** Hungary. **collected:** 1983.
locality: Nagykallo. **received as:** *S. vulgare* var.
technicum.. Landrace. Seed.

PI 508057 **donor id:** 0700793. **origin:** Hungary. **collected:** 1983.
locality: Medgyesegyhaza. **received as:** *S. vulgare* var.
technicum.. Landrace. Seed.

PI 508058 **donor id:** 0700794. **origin:** Hungary. **collected:** 1983.
locality: Kecskemet. **received as:** *S. vulgare* var.
technicum.. Landrace. Seed.

PI 508059. *Vicia villosa* Roth FABACEAE Hairy vetch

Donated by: Nagy, M., Research Center for Agrobotany, I.P.P.Q.,
Tapioszele, Hungary. Received March 1987.

donor id: 1500140. **origin:** Hungary. **collected:** 1983.
locality: Penyige. Seed.

PI 508060 to 508069. *Glycine soja* Siebold & Zucc. FABACEAE Wild
soybean

Donated by: Tanimura, Y., Hokkaido Perfect. Plant Genetic Res. Ctr,
Minami - Takinokawa, Takikawa, Hokkaido, Japan. Received .

PI 508060 **donor id:** No. 1. **origin:** Japan. **collected:** November 14,
1986. **locality:** Biratori near the Saru River. Wild.
Seed.

PI 508061 **donor id:** No. 2. **origin:** Japan. **collected:** November 14,
1986. **locality:** Biratori near the Saru River. Wild.
Seed.

PI 508062 **donor id:** No. 3. **origin:** Japan. **collected:** November 14,
1986. **locality:** Biratori near the Saru River. Wild.
Seed.

PI 508060 to 508069-continued

- PI 508063 donor id: No. 4. origin: Japan. collected: November 14, 1986. locality: Biratori near the Saru River. Wild. Seed.
- PI 508064 donor id: No. 5. origin: Japan. collected: November 15, 1986. locality: Northeast of Shizunai, near Shizunai River. Wild. Seed.
- PI 508065 donor id: No. 6. origin: Japan. collected: November 15, 1986. locality: Northeast of Shizunai, near Shizunai River. Wild. Seed.
- PI 508066 donor id: No. 7. origin: Japan. collected: November 15, 1986. locality: Northeast of Shizunai, near Shizunai River. Wild. Seed.
- PI 508067 donor id: No. 8. origin: Japan. collected: November 15, 1986. locality: Northeast of Shizunai, near Shizunai River. Wild. Seed.
- PI 508068 donor id: No. 9. origin: Japan. collected: November 15, 1986. locality: Northeast of Shizunai, near Shizunai River. Wild. Seed.
- PI 508069 donor id: No. 10. origin: Japan. collected: November 15, 1986. locality: Northeast of Shizunai, near Shizunai River. Wild. Seed.

PI 508070 to 508081. *Guizotia abyssinica* (L. f.) Cass. ASTERACEAE
Niger

Donated by: Debre Zeit Agric. Experiment Station, Debre Zeit, Ethiopia. remarks: Received through H.F. Rouk, USAID, Addis Ababa, Ethiopia. Received February 25, 1964.

- PI 508070 donor id: Ambo 24-A. origin: Ethiopia. Breeding Material. Seed.
- PI 508071 donor id: 16-A. origin: Ethiopia. Breeding Material. Seed.
- PI 508072 donor id: Senbete 3-A. origin: Ethiopia. Breeding Material. Seed.
- PI 508073 donor id: Shashamanne 10-A. origin: Ethiopia. Breeding Material. Seed.
- PI 508074 donor id: Debre-Zeit 4-A. origin: Ethiopia. Breeding Material. Seed.

PI 508070 to 508081-continued

PI 508075 **donor id:** Gojam 23-A. **origin:** Ethiopia. **Breeding Material.** Seed.

PI 508076 **donor id:** Serbo 2-A. **origin:** Ethiopia. **Breeding Material.** Seed.

PI 508077 **donor id:** Dejen(narar) 8-A. **origin:** Ethiopia. **Breeding Material.** Seed.

PI 508078 **donor id:** Debre-Zeit 19-A. **origin:** Ethiopia. **Breeding Material.** Seed.

PI 508079 **donor id:** Ambo 20-A. **origin:** Ethiopia. **Breeding Material.** Seed.

PI 508080 **donor id:** 14-A. **origin:** Ethiopia. **Breeding Material.** Seed.

PI 508081 **donor id:** 15-A. **origin:** Ethiopia. **Breeding Material.** Seed.

PI 508082. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Graham, W.D., Department of Agronomy and Soils, Clemson University, Clemson, South Carolina, United States. Received March 15, 1987.

donor id: SC770164. **origin:** United States. **cultivar:** Williams. **pedigree:** 'Knox 62'/'Coker 70-14'. **other id:** CV-721. **group:** CSR-WHEAT. **remarks:** Spikes lax, unevenly awnletted with some longer awns. Glumes glabrous, white. Grains soft red. **disease resistance:** Moderately resistant to powdery mildew. **insect resistance:** Hessian fly. Winter Annual. **Breeding Material.** Seed.

PI 508083 to 508084. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Orf, J.H., Department of Agronomy & Plant Genetics, University of Minnesota, St. Paul, Minnesota, United States. Received March 16, 1987.

PI 508083 **origin:** United States. **cultivar:** Dassel. **pedigree:** Evans/M66-18. **other id:** CV-200. **group:** CSR-SOYBEAN. **remarks:** Plant indeterminate, maturity Group 0, high yielding. Flowers purple, pods brown with gray pubescence. Seed yellow, shiny. Sensitive to herbicide metribuzin. **disease resistance:** Phytophthora root rot (gene Rps6). **Cultivar.** Seed.

PI 508083 to 508084-continued

PI 508084 **origin:** United States. **cultivar:** Sibley. **pedigree:** M68-256/Hodgson. **other id:** CV-201. **group:** CSR-SOYBEAN. **remarks:** Plant indeterminate, maturity Group I, high yielding.. Flowers white, pods brown with gray pubescence. Seeds yellow, dull. **disease resistance:** Races 1 and 2 of Phytophthora root rot. **Cultivar.** Seed.

PI 508085 to 508086. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Melton, B., Agronomy & Horticulture Department, New Mexico State University, Las Cruces, New Mexico, United States. Received March 16, 1987.

PI 508085 **donor id:** EPA-4. **origin:** United States. **pedigree:** EUAN-5/EUPH-5. **other id:** GP-197. **group:** CSR-ALFALFA. **remarks:** Plant nondormant type. Susceptible to blue alfalfa aphid. **disease resistance:** Some to Phytophthora root rot, anthracnose races 1 and 2. Also to bacterial wilt and Fusarium. **insect resistance:** Some to pea and spotted alfalfa aphids. **Breeding Material.** Seed.

PI 508086 **donor id:** ZIA-81. **origin:** United States. **pedigree:** Phenotypic selection from Zia. **other id:** GP-198. **group:** CSR-ALFALFA. **remarks:** Plants have some fall dormancy. Susceptible to blue alfalfa aphid, anthracnose, and Phytophthora root rot. Good in moisture stress environment. **disease resistance:** Some to bacterial and Fusarium wilts. **insect resistance:** Some to pea and spotted alfalfa aphids. **Breeding Material.** Seed.

PI 508087. *Trifolium pratense* L. FABACEAE Red clover

Donated by: Taylor, N.L., Dept. of Agronomy, University of Kentucky, Agricultural Science Building N, Lexington, Kentucky, United States. Received March 16, 1987.

donor id: 26-L38-1739. **origin:** United States. **pedigree:** Triploid/diploid Kenstar plants. **other id:** GP-14. **group:** CSR-CLOVER, RED. **remarks:** Source of trisomics, double trisomics, and other aneuploids for genetic investigations. **Breeding Material.** Seed.

PI 508088 to 508089. *Triticum aestivum* L. POACEAE Wheat

Donated by: Worrall, W.D., Texas Agricultural Experiment Station, Vernon, Texas, United States. Received March 16, 1987.

PI 508088 to 508089-continued

PI 508088 donor id: TX78V2408. origin: United States. pedigree: Short wheat/Scout(TX69A509-1)//Centurk. other id: GP-285. group: CSR-WHEAT. remarks: Hard red type. Plants semidwarf, high yielding. Susceptible to Great Plains Hessian fly and very susceptible to soil borne mosaic virus. Promising milling and baking characteristics. Adapted to Southern plains only. disease resistance: Stem rust and moderately to leaf rust. Winter Annual. Breeding Material. Seed.

PI 508089 donor id: TX78V3630. origin: United States. pedigree: Sturdy sib/Kaw//Centurk. other id: GP-286. group: CSR-WHEAT. remarks: Hard red type. Plants semidwarf, high yielding. Susceptible to leaf rust and soil borne mosaic virus. Milling and baking acceptable functional properties, unacceptable bake mixing time. disease resistance: Stem rust genes 72-00-1370C, 72-4-1A, 74-21-1409A. insect resistance: Segregating for Great Plains Hessian fly. Winter Annual. Breeding Material. Seed.

PI 508090 to 508091. *Lens culinaris* Medikus FABACEAE Lentil

Donated by: Muehlbauer, F.J., USDA-ARS, Dept. of Agronomy & Soils, Washington State University, Pullman, Washington, United States. Received March 16, 1987.

PI 508090 donor id: LC711981. origin: United States. cultivar: Brewer. pedigree: Tekoa/small black-seeded line. other id: CV-3. group: CSR-LENTIL. remarks: Plants profusely branched with semi-upright stems. Flowers white with blue to pale-blue to pale purple veins in throat of standard. Seeds beige. Cultivar. Seed.

PI 508091 donor id: VW000504. origin: United States. cultivar: Emerald. other id: CV-4. group: CSR-LENTIL. remarks: Plants profusely branched with semi-upright stems. Flowers white with blue to pale-blue to pale purple veins in throat of standard. Seeds green. Cultivar. Seed.

PI 508092 to 508093. *Pisum sativum* L. FABACEAE Pea

Donated by: Muehlbauer, F.J., USDA-ARS, Dept. of Agronomy & Soils, Washington State University, Pullman, Washington, United States. Received March 16, 1987.

PI 508092 to 508093-continued

PI 508092 **donor id:** PS810034. **origin:** United States. **cultivar:** Alaska 81. **pedigree:** Campbell Scotch 4*/Wis 7105. **other id:** CV-13. **group:** CSR-PEAS. **remarks:** Field type. Vine indeterminant and nonbranching with straight internodes. Flowers white, borne singly or doubly on peduncles. Pods straight, medium green with six-seven seeds. Seeds dark green. Excellent caning qualities. **disease resistance:** Fusarium wilt, immune to pea seedborne mosaic virus. Cultivar. Seed.

PI 508093 **donor id:** WA910431. **origin:** United States. **cultivar:** Umatilla. **pedigree:** JI 34/WA110-42(sel. from PI 244251). **other id:** CV-14. **group:** CSR-PEAS. **remarks:** Field type. Vine indeterminant and nonbranching. Flowers white, borne on peduncles in doubles. Pods straight, blunt ended, light green, lack parchment, and resistant to shattering. Seed bright yellow. **disease resistance:** Fusarium wilt racel, tolerant to pea root rot complex. Cultivar. Seed.

PI 508094. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by: Brillman, L.A., Jacklin Seed Company,, West 5300 Jacklin Avenue, Post Falls, Idaho, United States. **remarks:** Cooperative release by Jacklin Seed Company, Inc., Lofts Seed, Inc., and the New Jersey Agr. Experiment Station. Received March 16, 1987.

origin: United States. **cultivar:** Nassau. **pedigree:** NJE P-59/Baron. **other id:** CV-29. **group:** CSR-BLUEGRASS. **other id:** PVPO Cert. No. 8400005. **remarks:** Attractive turf of medium density, good wear tolerance and good winter hardiness, frequently stemmy in late spring. Used for lawn-type turf in full sun and in light shade. **disease resistance:** Good to leaf spot and melting-out disease. Above avg. to dollar spot, red thread, pink snow. Leaf and stem rusts and Fusarium blight syndrome. Cultivar. Seed.

PI 508095. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Meyer, W.A., Pure-Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon, United States. **remarks:** Cooperative release by Pure-Seed Testing, Inc., Lofts Seed, Inc., and the New Jersey Agr. Experiment Station. Received March 16, 1987.

PI 508095-continued

origin: United States. **cultivar:** Cowboy. **other id:** CV-106. **group:** CSR-OTHER GRASSES. **remarks:** Recommended for winter overseeding of dormant warm season turfs in southern US. Also useful for lawns, sports fields, parks, playgrounds, industrial sites, golf courses in areas where turf-type perennial ryegrasses adapted. **disease resistance:** Stem rust, many races of crown rust, net blotch. Also brown patch and red thread disease. Perennial. Cultivar. Seed.

PI 508096 to 508097. *Cicer arietinum* L. FABACEAE Chickpea

Donated by: Muehlbauer, F.J., USDA-ARS, Dept. of Agronomy and Soils, Washington State University, Pullman, Washington, United States; and Kaiser, W.J., Western Regional PI Station, Washington State University, Pullman, Washington, United States. Received March 16, 1987.

PI 508096 **origin:** United States. **cultivar:** Garnet. **pedigree:** Mass selection from PI 273879. **other id:** CV-0075. **group:** CSR-OTHER LEGUMES. **remarks:** Performed well in shallow soils. Plants branched at base with indeterminant habit, maturity about 110 days. Flowers violet. Pods rhomboid-ellipsoid, hairy. Seeds-reddish tan with dark spots. Drought tolerance. Cultivar. Seed.

PI 508097 **origin:** United States. **cultivar:** Tammany. **pedigree:** Selection from PI 458872. **other id:** CV-74. **group:** CSR-OTHER LEGUMES. **remarks:** Plants branched at base with indeterminant habit. Leaves unifoliate. Pods rhomboid-ellipsoid, smooth. Seeds large, creamy white. Early maturity type with excellent seed quality. Cultivar. Seed.

PI 508098. *Carthamus tinctorius* L. ASTERACEAE Safflower

Donated by: Bergman, J.W., Eastern Agriculture Research Center, Montana Agriculture Experiment Station, Sidney, Montana, United States. Received March 16, 1987.

origin: United States. **cultivar:** Hartman. **pedigree:** Sel. 87-42-3/AC-1. **other id:** CV-13. **group:** CSR-SAFFLOWER. **remarks:** Improved seed oil and meal protein content. Plants spiny, late maturing. Flowers yellow. Seeds predominately grey striped hull with occasional white normal hull. **disease resistance:** Alternaria leaf spot, pseudomonas bacterial blight. Also head rot disease. Cultivar. Seed.

PI 508099 to 508100. *Avena sativa* L. POACEAE Common oat

Donated by: Reeves, D.L., Department of Plant Science, South Dakota State University, Brookings, South Dakota, United States. Received

PI 508099 **donor id:** SD790400. **origin:** United States. **pedigree:** WI2221-2/Noble. **remarks:** Plants moderately tall, medium maturity, good lodging resistance. Grain yellow, small to medium. Milling ratings good-excellent. Test weight good. Groat protein upper medium range. Seedlings susceptible to crown rust races 264A, 264B & PL62. Susceptible to barley yellow dwarf virus. **disease resistance:** Resistant to crown rust and smut. Stem rust resistant genes (Pg2 & Pg4) present. Spring Annual. Breeding Material. Seed.

PI 508100 **donor id:** SD810109. **origin:** United States. **pedigree:** Moore//Dal/Nodaway 70. **remarks:** Plants tall, midseason-late maturity, good lodging resistance. Grain white. Test weight exceptionally high. Groat percentage high. Milling rate good. Groat protein and oil upper end of medium range. Susceptible to barley yellow dwarf virus. **disease resistance:** Intermediate resistance (MR) to crown rust and smut. Stem rust resistant genes (Pg2 & Pg4) present. Spring Annual. Breeding Material. Seed.

PI 508101. *Lupinus albus* L. FABACEAE White lupine

Donated by: VIR, Leningrad, Soviet Union. Received February 20, 1987.

donor id: K-2498. **origin:** Soviet Union. **origin institute:** Timiryazev Agri. Academy, Moscow. **cultivar:** Start. **locality:** Chabapy. Cultivar. Seed.

PI 508102. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Thompson, R.K., University of Arizona, Maricopa Agricultural Center, Rt. 2 Box 751-F, Maricopa, Arizona, United States. Received March 12, 1987.

donor id: AZ-MSFRS. **origin:** United States. **remarks:** Plants semi-dwarf, quality enhanced, hard red type. Population diverse, potential source of high yielding cultivars with superior quality. Spring Annual. Breeding Material. Seed.

PI 508103. *Triticum durum* Desf. POACEAE Durum wheat

Donated by: Thompson, R.K., University of Arizona, Maricopa Agricultural Center, Rt. 2 Box 751-F, Maricopa, Arizona, United States. Received March 12, 1987.

donor id: AZ-MSFRS. **origin:** United States. **remarks:** Plants semi-dwarf, quality enhanced type. Population diverse, potential source of high yielding cultivars with superior quality. **received as:** *T. turgidum* var. durum. Breeding Material. Seed.

PI 508104. *Hordeum vulgare* L. POACEAE Barley

Donated by: Thomas, Jr., W.W., Consulate General of the US of America, Chengdu, Peoples Republic of China. **remarks:** Received through the American Embassy, Beijing. Received February 4, 1987.

donor id: M. Witt. **origin:** Tibet. **local name:** Qingki (Chingko). **collector id:** M. Witt. **locality:** Vicinity of Lhasa. **remarks:** Six row, naked type. Referred to as Tibetan barley, upland barley, and naked barley. Landrace. Seed.

PI 508105 to 508248. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Voigt, R.L., USAID Sorghum/Millet Program, Department of Plant Sciences, University of Arizona, Tucson, Arizona, United States; and El-Lakany, M.A., Field Crops Division, UN Development Program, FAO, Taiz, Yemen Arab Republic. Received March 2, 1987.

PI 508105 **donor id:** 1569. **origin:** Yemen Arab Republic. **locality:** Turba. **elevation:** 2000m. **remarks:** Race kafir. Head type 3 - open elongated, elliptical. Seeds yellow. Cultivated. Seed.

PI 508106 **donor id:** 1588. **origin:** Yemen Arab Republic. **locality:** Turba. **elevation:** 2000m. **remarks:** Race bicolor caudatum. Head type 3 - open, elongated, elliptical. Seeds orange. Cultivated. Seed.

PI 508107 **donor id:** 1599. **origin:** Yemen Arab Republic. **locality:** Turba. **elevation:** 2000m. **remarks:** Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds tan. Cultivated. Seed.

PI 508108 **donor id:** 1654. **origin:** Yemen Arab Republic. **locality:** Dahana. **elevation:** 185m. **remarks:** Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508109 donor id: 1828. origin: Yemen Arab Republic. locality: Addawahi. elevation: 210m. remarks: Race durra caudatum. Head type 4 - semi open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508110 donor id: 1829. origin: Yemen Arab Republic. locality: Addawahi. elevation: 210m. remarks: Race durra caudatum. Head type 4 - semi open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508111 donor id: 1834. origin: Yemen Arab Republic. locality: Al Asama. elevation: 210m. remarks: Race durra caudatum. Head type 4 - semi open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508112 donor id: 2030. origin: Yemen Arab Republic. locality: Beni Mohmed. elevation: 210m. remarks: Race kafir. Head type 4 - semi-open elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508113 donor id: 2031. origin: Yemen Arab Republic. locality: Beni Mohmed. elevation: 210m. remarks: Race durra caudatum. Head type 4 - semi-open elongated, elliptical. Seeds orange. Cultivated. Seed.
- PI 508114 donor id: 2036. origin: Yemen Arab Republic. locality: Beni Mohmed. elevation: 175m. remarks: Race kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508115 donor id: 2053. origin: Yemen Arab Republic. locality: Benilah. elevation: 175m. remarks: Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds tan. Cultivated. Seed.
- PI 508116 donor id: 2086. origin: Yemen Arab Republic. locality: Al Kadan. elevation: 220m. remarks: Race caudatum kafir. Head type 3 - open, elongated, elliptical. Seeds orange. Cultivated. Seed.
- PI 508117 donor id: 2113. origin: Yemen Arab Republic. locality: Al Kadan. elevation: 220m. remarks: Race caudatum kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508118 donor id: 2128. origin: Yemen Arab Republic. locality: Al Madman. elevation: 220m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508119 donor id: 2130. origin: Yemen Arab Republic. locality: Al Madman. elevation: 220m. remarks: Race kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508120 donor id: 2143. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 200m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508121 donor id: 2154. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 200m. remarks: Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds white. Cultivated. Seed.
- PI 508122 donor id: 2175. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 200m. remarks: Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds white. Cultivated. Seed.
- PI 508123 donor id: 2192. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 185m. remarks: Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508124 donor id: 2218. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 185m. remarks: Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds light orange and white. Cultivated. Seed.
- PI 508125 donor id: 2231. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 170m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508126 donor id: 2244. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 170m. remarks: Race durra caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds orange and white. Cultivated. Seed.
- PI 508127 donor id: 2251. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 170m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds white. Cultivated. Seed.
- PI 508128 donor id: 2257. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 170m. remarks: Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds light orange and white. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508129 donor id: 2262. origin: Yemen Arab Republic. locality: Al Sarrah. elevation: 170m. remarks: Race Kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508130 donor id: 2327. origin: Yemen Arab Republic. locality: Kahre. elevation: 200m. remarks: Race durra. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508131 donor id: 2330. origin: Yemen Arab Republic. locality: Kahre. elevation: 200m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds dark orange. Cultivated. Seed.
- PI 508132 donor id: 2376. origin: Yemen Arab Republic. locality: Al Kodirah. elevation: 220m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508133 donor id: 2386. origin: Yemen Arab Republic. locality: Kwober. elevation: 220m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508134 donor id: 2428. origin: Yemen Arab Republic. locality: Al Kohre. elevation: 180m. remarks: Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508135 donor id: 2433. origin: Yemen Arab Republic. locality: Al Kohre. elevation: 180m. remarks: Race durra. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508136 donor id: 2451. origin: Yemen Arab Republic. locality: Kohre. elevation: 190m. remarks: Race kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508137 donor id: 2516. origin: Yemen Arab Republic. locality: Kohre. elevation: 190m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light red. Cultivated. Seed.
- PI 508138 donor id: 2566. origin: Yemen Arab Republic. locality: Bene Manssor. elevation: 1520m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds yellow orange. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508139 donor id: 2602. origin: Yemen Arab Republic. locality: Barkat. elevation: 1870m. remarks: Race durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds orange. Cultivated. Seed.
- PI 508140 donor id: 2721. origin: Yemen Arab Republic. locality: Al Jomah. elevation: 780m. remarks: Race durra caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds orange tan. Cultivated. Seed.
- PI 508141 donor id: 2722. origin: Yemen Arab Republic. locality: Al Jomah. elevation: 780m. remarks: Race caudatum kafir. Head type 4 - semi-open, elongated, elliptical. Seeds tan brown. Cultivated. Seed.
- PI 508142 donor id: 2724. origin: Yemen Arab Republic. locality: Al Jomah. elevation: 780m. remarks: Race durra caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds tan brown. Cultivated. Seed.
- PI 508143 donor id: 2731. origin: Yemen Arab Republic. locality: Al Nahme. elevation: 780m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow tan. Cultivated. Seed.
- PI 508144 donor id: 2741. origin: Yemen Arab Republic. locality: Almahwit Bait Alnahme. elevation: 780m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds white and tan. Cultivated. Seed.
- PI 508145 donor id: 2745. origin: Yemen Arab Republic. locality: Almahwit Bait Alnahme. elevation: 780m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds yellow tan. Cultivated. Seed.
- PI 508146 donor id: 2749. origin: Yemen Arab Republic. locality: Almahwit Alganah. elevation: 780m. remarks: Race durra caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds tan. Cultivated. Seed.
- PI 508147 donor id: 2757. origin: Yemen Arab Republic. locality: Almahwit Al Wostah. elevation: 800m. remarks: Race kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508148 donor id: 2772. origin: Yemen Arab Republic. locality: Almahwit Al Mahaiekah. elevation: 840m. remarks: Race caudatum kafir. Head type 4 - semi-open, elongated, elliptical. Seeds orange tan. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508149 **donor id:** 2776. **origin:** Yemen Arab Republic. **locality:** Almahwit Al Mahaiekah. **elevation:** 840m. **remarks:** Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds orange. Cultivated. Seed.
- PI 508150 **donor id:** 2783. **origin:** Yemen Arab Republic. **locality:** Almahwit Al Mahaiekah. **elevation:** 840m. **remarks:** Race durra caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds tan. Cultivated. Seed.
- PI 508151 **donor id:** 2784. **origin:** Yemen Arab Republic. **locality:** Almahwit Al Mahaiekah. **elevation:** 840m. **remarks:** Race durra caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds white and tan. Cultivated. Seed.
- PI 508152 **donor id:** 2789. **origin:** Yemen Arab Republic. **locality:** Almahwit Al Mahaiekah. **elevation:** 840m. **remarks:** Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light orange. Cultivated. Seed.
- PI 508153 **donor id:** 2800. **origin:** Yemen Arab Republic. **locality:** Almahwit Al Mahaiekah. **elevation:** 865m. **remarks:** Race durra caudatum. Head type 7 - very compact, ovate, flattened base, with usually a recurved peduncle. Seeds red orange. Cultivated. Seed.
- PI 508154 **donor id:** 2804. **origin:** Yemen Arab Republic. **locality:** Alahwit Sirah. **elevation:** 860m. **remarks:** Race caudatum kafir. Head type 4 - Semi-open, elongated, elliptical. Seeds white and tan. Cultivated. Seed.
- PI 508155 **donor id:** 3246. **origin:** Yemen Arab Republic. **locality:** Al Karwo. **elevation:** 1360m. **remarks:** Race durra caudatum. Head type 4 - Semi-open, elongated, elliptical. Seeds white. Cultivated. Seed.
- PI 508156 **donor id:** 3273. **origin:** Yemen Arab Republic. **locality:** Aaber Al Hajar. **elevation:** 1360m. **remarks:** Race caudatum bicolor. Head type 3 - open, elongated, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508157 **donor id:** 3288. **origin:** Yemen Arab Republic. **locality:** Aaber Al Hajar. **elevation:** 1340m. **remarks:** Race caudatum durra. Head type 4 - semi-open, elongated, elliptical. Seeds grey. Cultivated. Seed.
- PI 508158 **donor id:** 3295. **origin:** Yemen Arab Republic. **locality:** Wadi Amran. **elevation:** 1355m. **remarks:** Race durra. Head type 4 - semi-open, elongated, elliptical. Seeds light yellow. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508159 donor id: 3298. origin: Yemen Arab Republic. locality: Wadi Amran. elevation: 1355m. remarks: Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds light brown. Cultivated. Seed.
- PI 508160 donor id: 3388. origin: Yemen Arab Republic. locality: Gabal Tarek. elevation: 1320m. remarks: Race durra caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds red and white. Cultivated. Seed.
- PI 508161 donor id: 3433. origin: Yemen Arab Republic. locality: Bayt Abdo Ali. elevation: 1240m. remarks: Race durra caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds light red and white. Cultivated. Seed.
- PI 508162 donor id: 3475. origin: Yemen Arab Republic. locality: Bayt Abdo Ali. elevation: 1050m. remarks: Race caudatum durra. Head type 4 - semi-open, elongated, elliptical. Seeds white and red. Cultivated. Seed.
- PI 508163 donor id: 3476. origin: Yemen Arab Republic. locality: Bayt Lahmy. elevation: 875m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds white and tan. Cultivated. Seed.
- PI 508164 donor id: 3478. origin: Yemen Arab Republic. locality: Suk Alswek. elevation: 875m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds white and light red. Cultivated. Seed.
- PI 508165 donor id: 3481. origin: Yemen Arab Republic. locality: Bayt Lahmy. elevation: 875m. remarks: Race kafir. Head type 4 - semi-open, elongated, elliptical. Seeds white and brown. Cultivated. Seed.
- PI 508166 donor id: 3484. origin: Yemen Arab Republic. locality: Bayt Lahmy. elevation: 875m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light red and white. Cultivated. Seed.
- PI 508167 donor id: 3485. origin: Yemen Arab Republic. locality: Bayt Lahmy. elevation: 875m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light red and white. Cultivated. Seed.
- PI 508168 donor id: 3486. origin: Yemen Arab Republic. locality: Bayt Lahmy. elevation: 875m. remarks: Race kafir. Head type 4 - semi-open, elongated, elliptical. Seeds light red and white. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508169 donor id: 3487. origin: Yemen Arab Republic. locality: Bayt Lahmy. elevation: 875m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds white and light red. Cultivated. Seed.
- PI 508170 donor id: 3490. origin: Yemen Arab Republic. locality: Bayt Lahmy. elevation: 875m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds light red and white. Cultivated. Seed.
- PI 508171 donor id: 3496. origin: Yemen Arab Republic. locality: Bayt Lahmy. elevation: 875m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds white and light orange. Cultivated. Seed.
- PI 508172 donor id: 3500. origin: Yemen Arab Republic. locality: Bayt Lahmy. elevation: 875m. remarks: Race kafir caudatum. Head type 4 - semi-open, elongated, elliptical. Seeds white and brown. Cultivated. Seed.
- PI 508173 donor id: 3535. origin: Yemen Arab Republic. locality: Bayt Abdo Ali. elevation: 1050m. remarks: Race durra kafir. Head type 4 - semi-open, elongated, elliptical. Seeds white and light orange. Cultivated. Seed.
- PI 508174 donor id: 3545. origin: Yemen Arab Republic. locality: Damar. elevation: 1480m. remarks: Race durra. Head type 7 - Very compact, ovate, flattened base with usually a recurved peduncle. Seeds brown. Cultivated. Seed.
- PI 508175 donor id: 3550. origin: Yemen Arab Republic. locality: Damar. elevation: 1480m. remarks: Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds brown. Cultivated. Seed.
- PI 508176 donor id: 3551. origin: Yemen Arab Republic. locality: Damar. elevation: 1480m. remarks: Race durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds brown. Cultivated. Seed.
- PI 508177 donor id: 3563. origin: Yemen Arab Republic. locality: Al Falkah. elevation: 2520m. remarks: Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds light brown. Cultivated. Seed.
- PI 508178 donor id: 3566. origin: Yemen Arab Republic. locality: Damar Al Falkah. elevation: 2520m. remarks: Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds brown. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508179 **donor id:** 3568. **origin:** Yemen Arab Republic. **locality:** Damar Al Falkah. **elevation:** 2520m. **remarks:** Race durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds light red. Cultivated. Seed.
- PI 508180 **donor id:** 3575. **origin:** Yemen Arab Republic. **locality:** Damar Al Kadah. **elevation:** 2540m. **remarks:** Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds light red. Cultivated. Seed.
- PI 508181 **donor id:** 3577. **origin:** Yemen Arab Republic. **locality:** Damar Al Kadah. **elevation:** 2520m. **remarks:** Race durra caudatum. Head type 6 - semi-compact, elliptical. Seeds light red. Cultivated. Seed.
- PI 508182 **donor id:** 3578. **origin:** Yemen Arab Republic. **locality:** Damar Al Kadah. **elevation:** 2520m. **remarks:** Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds light red. Cultivated. Seed.
- PI 508183 **donor id:** 3595. **origin:** Yemen Arab Republic. **locality:** Damar Al Kasah. **elevation:** 2540m. **remarks:** Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds brown. Cultivated. Seed.
- PI 508184 **donor id:** 3596. **origin:** Yemen Arab Republic. **locality:** Damar Al Kasah. **elevation:** 2540m. **remarks:** Race durra. Head type 6 - semi-compact, elliptical. Seeds dark red. Cultivated. Seed.
- PI 508185 **donor id:** 3598. **origin:** Yemen Arab Republic. **locality:** Damar Al Sowya. **elevation:** 2540m. **remarks:** Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds brown. Cultivated. Seed.
- PI 508186 **donor id:** 3599. **origin:** Yemen Arab Republic. **locality:** Damar Al Kadah. **elevation:** 2540m. **remarks:** Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds red. Cultivated. Seed.
- PI 508187 **donor id:** 3600. **origin:** Yemen Arab Republic. **locality:** Damar Al Kadah. **elevation:** 2540m. **remarks:** Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds light red. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508188 donor id: 3601. origin: Yemen Arab Republic. locality: Damar Al Kadah. elevation: 2540m. remarks: Race durra caudatum. Head type 6 - semi-compact, elliptical. Seeds light red. Cultivated. Seed.
- PI 508189 donor id: 3609. origin: Yemen Arab Republic. locality: Damar Al Kasah. elevation: 2540m. remarks: Race kafir durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.
- PI 508190 donor id: 3614. origin: Yemen Arab Republic. locality: Damar. elevation: 2540m. remarks: Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds dark red. Cultivated. Seed.
- PI 508191 donor id: 3616. origin: Yemen Arab Republic. locality: Damar. elevation: 2540m. remarks: Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds light red. Cultivated. Seed.
- PI 508192 donor id: 3625. origin: Yemen Arab Republic. locality: Damar. elevation: 2450m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508193 donor id: 3626. origin: Yemen Arab Republic. locality: Bayt Al Mashry. elevation: 2400m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508194 donor id: 3630. origin: Yemen Arab Republic. locality: Bayt Al Mashry. elevation: 2540m. remarks: Race durra kafir. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds red. Cultivated. Seed.
- PI 508195 donor id: 3633. origin: Yemen Arab Republic. locality: Al Kawlah. elevation: 2470m. remarks: Race kafir durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.
- PI 508196 donor id: 3639. origin: Yemen Arab Republic. locality: Al Kawlah. elevation: 2470m. remarks: Race kafir durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508197 **donor id:** 3642. **origin:** Yemen Arab Republic. **locality:** Damar Al Sowya. **elevation:** 2470m. **remarks:** Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508198 **donor id:** 3645. **origin:** Yemen Arab Republic. **locality:** Damar. **elevation:** 2470m. **remarks:** Race kafir durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.
- PI 508199 **donor id:** 3646. **origin:** Yemen Arab Republic. **locality:** Damar. **elevation:** 2450m. **remarks:** Race durra kafir. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.
- PI 508200 **donor id:** 3652. **origin:** Yemen Arab Republic. **locality:** Damar. **elevation:** 2450m. **remarks:** Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508201 **donor id:** 3658. **origin:** Yemen Arab Republic. **locality:** Damar Bayt Al Mashry. **elevation:** 2400m. **remarks:** Race durra kafir. Head type 5 - semi-compact, ovate. Seeds yellow. Cultivated. Seed.
- PI 508202 **donor id:** 3662. **origin:** Yemen Arab Republic. **locality:** Damar Bayt Al Mashry. **elevation:** 2400m. **remarks:** Race kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508203 **donor id:** 3666. **origin:** Yemen Arab Republic. **locality:** Damar Bayt Al Mashry. **elevation:** 2400m. **remarks:** Race kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508204 **donor id:** 3669. **origin:** Yemen Arab Republic. **locality:** Damar Al Fukah. **elevation:** 2300m. **remarks:** Race kafir. Head type 5 - semi-compact, ovate. Seeds yellow. Cultivated. Seed.
- PI 508205 **donor id:** 3671. **origin:** Yemen Arab Republic. **locality:** Damar Al Fukah. **elevation:** 2300m. **remarks:** Race durra Kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508206 **donor id:** 3690. **origin:** Yemen Arab Republic. **locality:** Damar Al-hmah. **elevation:** 2230m. **remarks:** Race durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508207 donor id: 3695. origin: Yemen Arab Republic. locality: Damar Rada. elevation: 770m. remarks: Race durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508208 donor id: 3730. origin: Yemen Arab Republic. locality: Damar Rada. elevation: 2170m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508209 donor id: 3731. origin: Yemen Arab Republic. locality: Damar Rada. elevation: 2170m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508210 donor id: 3734. origin: Yemen Arab Republic. locality: Damar Rada. elevation: 2170m. remarks: Race durra kafir. Head type 5 - semi-compact, ovate. Seeds yellow. Cultivated. Seed.
- PI 508211 donor id: 3736. origin: Yemen Arab Republic. locality: Damar Rada. elevation: 2170m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508212 donor id: 3738. origin: Yemen Arab Republic. locality: Damar Rada. elevation: 2170m. remarks: Race kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508213 donor id: 3742. origin: Yemen Arab Republic. locality: Damar Rada. elevation: 2170m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508214 donor id: 3751. origin: Yemen Arab Republic. locality: Damar Sharyah. elevation: 2050m. remarks: Race durra caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.
- PI 508215 donor id: 3806. origin: Yemen Arab Republic. locality: Damar Aswed. elevation: 1990m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508216 donor id: 3808. origin: Yemen Arab Republic. locality: Damar Aswed. elevation: 1990m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508217 donor id: 3810. origin: Yemen Arab Republic. locality: Damar Aswed. elevation: 1990m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508218 donor id: 3811. origin: Yemen Arab Republic. locality: Damar Aswed. elevation: 1990m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508219 donor id: 3812. origin: Yemen Arab Republic. locality: Damar Aswed. elevation: 1990m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508220 donor id: 3813. origin: Yemen Arab Republic. locality: Damar Aswed. elevation: 1990m. remarks: Race kafir durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.
- PI 508221 donor id: 3815. origin: Yemen Arab Republic. locality: Damar Aswed. elevation: 1990m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508222 donor id: 3828. origin: Yemen Arab Republic. locality: Damar Aswed. elevation: 1990m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508223 donor id: 3832. origin: Yemen Arab Republic. locality: Damar Mansam. elevation: 1990m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508224 donor id: 3834. origin: Yemen Arab Republic. locality: Damar Al Smed. elevation: 1990m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508225 donor id: 3835. origin: Yemen Arab Republic. locality: Damar Al Smed. elevation: 1990m. remarks: Race kafir durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.
- PI 508226 donor id: 3840. origin: Yemen Arab Republic. locality: Damar Mansam. elevation: 1990m. remarks: Race durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508227 donor id: 3841. origin: Yemen Arab Republic. locality: Damar Mansam. elevation: 1990m. remarks: Race kafir durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.
- PI 508228 donor id: 3842. origin: Yemen Arab Republic. locality: Damar Mansam. elevation: 1990m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508229 donor id: 3843. origin: Yemen Arab Republic. locality: Damar Mansam. elevation: 1990m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508230 donor id: 3845. origin: Yemen Arab Republic. locality: Damar Mansam. elevation: 1990m. remarks: Race durra caudatum. Head type 6 - semi-compact, elliptical. Seeds dark yellow. Cultivated. Seed.
- PI 508231 donor id: 3849. origin: Yemen Arab Republic. locality: Al Bayda. elevation: 1980m. remarks: Race durra caudatum. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508232 donor id: 3853. origin: Yemen Arab Republic. locality: Al Bayda Abass. elevation: 1980m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508233 donor id: 3856. origin: Yemen Arab Republic. locality: Al Bayda Abass. elevation: 1980m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508234 donor id: 3862. origin: Yemen Arab Republic. locality: Al Bayda Abass. elevation: 1980m. remarks: Race kafir durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508235 donor id: 3924. origin: Yemen Arab Republic. locality: Al Bayda Thenaem. elevation: 2010m. remarks: Race durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.
- PI 508236 donor id: 3925. origin: Yemen Arab Republic. locality: Al Bayda Thenaem. elevation: 2010m. remarks: Race durra. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds yellow. Cultivated. Seed.

PI 508105 to 508248-continued

- PI 508237 donor id: 3927. origin: Yemen Arab Republic. locality: Al Bayda Thenaem. elevation: 2010m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508238 donor id: 3943. origin: Yemen Arab Republic. locality: Al Bayda Thenaem. elevation: 2030m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508239 donor id: 4019. origin: Yemen Arab Republic. locality: Al Bayda Makarah. elevation: 1950m. remarks: Race durra. Head type 6 - semi-compact, elliptical. Seeds yellow red. Cultivated. Seed.
- PI 508240 donor id: 4026. origin: Yemen Arab Republic. locality: Al Bayda Halsah. elevation: 1970m. remarks: Race durra. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.
- PI 508241 donor id: 4027. origin: Yemen Arab Republic. locality: Al Bayda Farekah. elevation: 1945m. remarks: Race durra. Head type 6 - semi-compact, elliptical. Seeds yellow red. Cultivated. Seed.
- PI 508242 donor id: 4030. origin: Yemen Arab Republic. locality: Al Bayda Farekah. elevation: 1945m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow red. Cultivated. Seed.
- PI 508243 donor id: 4067. origin: Yemen Arab Republic. locality: Al Bayda Al Matrah. elevation: 1970m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds yellow brown. Cultivated. Seed.
- PI 508244 donor id: 4071. origin: Yemen Arab Republic. locality: Al Bayda Mushrab. elevation: 2070m. remarks: Race caudatum. Head type 7 - very compact, ovate, flattened base with usually a recurved peduncle. Seeds red. Cultivated. Seed.
- PI 508245 donor id: 4074. origin: Yemen Arab Republic. locality: Al Bayda Mashrapah. elevation: 2070m. remarks: Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow and red. Cultivated. Seed.
- PI 508246 donor id: 4138. origin: Yemen Arab Republic. locality: Al Bayda Alzاهر. elevation: 2100m. remarks: Race kafir durra. Head type 4 - semi-open, elongated, elliptical. Seeds light brown. Cultivated. Seed.

PI 508105 to 508248-continued

PI 508247 **donor id:** 4151. **origin:** Yemen Arab Republic. **locality:** Al Bayda Alzاهر. **elevation:** 2080m. **remarks:** Race durra kafir. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.

PI 508248 **donor id:** 4184. **origin:** Yemen Arab Republic. **locality:** Al Bayda Beer Algarwy. **elevation:** 2050m. **remarks:** Race durra caudatum. Head type 6 - semi-compact, elliptical. Seeds yellow. Cultivated. Seed.

PI 508249. X Triticosecale sp. POACEAE Triticale

Donated by: Peterson, C.J., USDA-ARS, Washington State University, 209 Johnson Hall, Pullman, Washington, United States. Received March 25, 1987.

donor id: VI 080011. **origin:** United States. **cultivar:** Whitman. **pedigree:** Kiss/Whit. **remarks:** Plant maturity medium. Susceptible to Cephalosporium stripe. **disease resistance:** Stripe rust. Spring Annual. Cultivar. Seed.

PI 508250 to 508254. Oryza sativa L. POACEAE Rice

Donated by: McKenzie, K.S., Rice Research Station, Louisiana State Univ. Agri. Center, P.O. Box 1429, Crowley, Louisiana, United States. **remarks:** Cooperative release by the Louisiana Agricultural Experiment Station and USDA-ARS. Received March 25, 1987.

PI 508250 **donor id:** 8502710. **origin:** United States. **pedigree:** Cobalt 60 irradiation of PI 224810. **remarks:** Induced mutant for early maturity. Plants short statured but lodged, and early maturity. Short grain type. **insect resistance:** Tolerant to rice water weevil. Breeding Material. Seed.

PI 508251 **donor id:** 8502716. **origin:** United States. **pedigree:** Cobalt 60 irradiation of PI 224810. **remarks:** Induced mutant for early maturity. Plants short statured with low lodging, early maturity and high yielding. Short grain type. **insect resistance:** Tolerant to rice water weevil. Breeding Material. Seed.

PI 508252 **donor id:** 8502723. **origin:** United States. **pedigree:** Cobalt 60 irradiation of PI 224810. **remarks:** Induced mutant for early maturity. Plants short statured, high yielding, and lodging resistant. Short grain type. **insect resistance:** Tolerant to rice water weevil. Breeding Material. Seed.

PI 508250 to 508254-continued

PI 508253 **donor id:** 8502711. **origin:** United States. **pedigree:** Cobalt 60 irradiation of PI 224810. **remarks:** Induced mutant for early maturity. Plants short statured, high yielding. Straw more yellow than that of parent. Short grain type. **insect resistance:** Tolerant to rice water weevil. Breeding Material. Seed.

PI 508254 **donor id:** 8502720. **origin:** United States. **pedigree:** Cobalt 60 irradiation of PI 224810. **remarks:** Induced mutant for short stature. Plants short statured, high yielding and lodging resistant. Straw more yellow than that of parent. Short grain type. **insect resistance:** Tolerant to rice water weevil. Breeding Material. Seed.

PI 508255. *Zea mays* L. POACEAE Corn

Donated by: Manwiller, A., Agricultural Research Department, Kenya Agricultural Research Institute, P.O. Box 30148, Nairobi, Kenya. Received October 06, 1986.

donor id: LR 703. **origin:** Kenya. **other id:** Q 25872 (C 17044). **remarks:** Seeds have multiple aleurone. Susceptible to common rust. Primitive Cultivar. Seed.

PI 508256 to 508259. *Zea mays* L. POACEAE Corn

Donated by: VIR, Leningrad, Soviet Union. Received February 15, 1985.

PI 508256 **donor id:** VIR 2177. **origin:** Soviet Union. **cultivar:** Novinka. **other id:** Q 25537 (C 15887). **locality:** Ukrainian SSR. Cultivar. Seed.

PI 508257 **donor id:** VIR 2184. **origin:** Soviet Union. **cultivar:** Dneprovskij 438 mv. **other id:** Q 25539 (C 15887). **locality:** Ukrainian SSR. Cultivar. Seed.

PI 508258 **donor id:** VIR 2728. **origin:** Soviet Union. **cultivar:** Krasnodarskij 440 mv. **other id:** Q 25546 (C 15887). **locality:** Krasnodar Territory. Cultivar. Seed.

PI 508259 **donor id:** VIR 2732. **origin:** Soviet Union. **cultivar:** Osetinskij 5TV. **other id:** Q 25547 (C 15887). **locality:** North Ossetian, ASSRR. Cultivar. Seed.

PI 508260 to 508264. *Aegilops tauschii* Cosson POACEAE

Donated by: Dong, Y., Institute of Crop Germplasm Resources, Chinese Academy of Agricultural Sciences, 30 Bai Shi Qiao Road, Beijing, China, Peoples Repub of. Received March 27, 1987.

PI 508260 **donor id:** 82-Ae-1. **origin:** China, Peoples Repub of.
locality: Xinjiang Province. Wild. Seed.

PI 508261 **donor id:** 82-Ae3. **origin:** China, Peoples Repub of.
locality: Xinjiang Province. Wild. Seed.

PI 508262 **donor id:** 82-Ae5. **origin:** China, Peoples Repub of.
locality: Xinjiang Province. Wild. Seed.

PI 508263 **donor id:** Ae-41. **origin:** China, Peoples Repub of.
locality: Shaanxi Province. Wild. Seed.

PI 508264 **donor id:** Ae-46. **origin:** China, Peoples Repub of.
locality: Henan Province. Wild. Seed.

PI 508265. *Citrus medica* L. RUTACEAE Citron

Donated by: USDA-APHIS, Inspection Station, J.F.K, International Airport, Carso Bldg. 80, Room 109, Jamaica, New York, United States.
remarks: Airport interception July 1970, entered Riverside quarantine May, 1983. Received October 13, 1986.

origin: Israel. **cultivar:** Ethrog. Cultivar. Cutting.

PI 508266 to 508267. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Burton, J.W., USDA-ARS, Department of Crop Science, North Carolina State University, Raleigh, North Carolina, United States. **remarks:** Cooperative registration by the Department of Crop Science, N.C. State University and ABRU Ciba Geigy. Received April 14, 1987.

PI 508266 **donor id:** N75-2213. **origin:** United States. **cultivar:** Young. **pedigree:** Davis/Essex. **other id:** CV-204. **group:** CSR-SOYBEAN. **remarks:** Determinate type. Maturity group VI. Productivity high. Flowers white with grey pubescence and tan pod walls. Seeds yellow with buff hila. **disease resistance:** Bacterial pustule, soybean mosaic and peanut mottle viruses. Phytophthora rot (Rps 2 gene).
Cultivar. Seed.

PI 508266 to 508267-continued

PI 508267 **donor id:** N76-1507. **origin:** United States. **cultivar:** Johnston. **pedigree:** N70-2173/Hutton. **other id:** CV-205. **group:** CSR-SOYBEAN. **remarks:** Maturity group VIII. Productivity high. Flowers purple with tawny pubescence. Pod walls tan. Seeds yellow with black hila. **disease resistance:** Bacterial pustule and powdery mildew. Cultivar. Seed.

PI 508268 to 508269. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Buss, G.R., Department of Agronomy, Virginia Polytechnic Inst. & State Univ., Blacksburg, Virginia, United States. Received April 14, 1987.

PI 508268 **donor id:** V75-183. **origin:** United States. **cultivar:** Toano. **pedigree:** Ware/Essex. **other id:** CV-202. **group:** CSR-SOYBEAN. **remarks:** Determinate type. Maturity group V. Flowers purple with grey pubescence and tan pod walls. Seeds dull yellow. **disease resistance:** Soybean mosaic, peanut mottle, and peanut stunt viruses. Cultivar. Seed.

PI 508269 **donor id:** V74-315. **origin:** United States. **cultivar:** Stafford. **pedigree:** V66-318/V68-2331. **other id:** CV-203. **group:** CSR-SOYBEAN. **remarks:** Determinate type. Late maturity group IV. Flowers purple with grey pubescence and tan pod walls. Seed coats dull yellow. Susceptible to soybean cyst-nematode and the southern root-knot nematode. **disease resistance:** Bacterial pustule and some to peanut root-knot nematode. Cultivar. Seed.

PI 508270. *Zea mays* L. POACEAE Corn

Donated by: Day, A.D., Department of Plant Science, University of Arizona, Tucson, Arizona, United States. Received April 14, 1987.

donor id: Arizona 8601. **origin:** United States. **pedigree:** Mexican June selections/Indian flour & dent selections. **other id:** GP-156. **group:** CSR-MAIZE. **salt tolerance:** Developed for saline environments. Breeding Material. Seed.

PI 508271. *Triticum aestivum* L. POACEAE Common wheat

Donated by: De Pauw, R.M., Research Station, Agriculture Canada, Swift Current, Saskatchewan, Canada. Received April 14, 1987.

PI 508271-continued

origin: Canada. **cultivar:** Lancer. **pedigree:** Fortuna/Chris. **other id:** CV-720. **other id:** License no. 2536. **other id:** BW572. **remarks:** Hard red type, photoperiod insensitive. Spikes fusiform, middense. Glumes midwide, glabrous, white. Kernels hard, medium red, germ midsize, round. **disease resistance:** Root rot, leaf rust, stem rust. Moderately to loose smut and common bunt. **insect resistance:** Wheat stem sawfly. Spring Annual. Cultivar. Seed.

PI 508272. *Trifolium pratense* L. FABACEAE Red clover

Donated by: Leath, K.T., USDA-ARS, U.S. Regional Pasture Research Lab., University Park, Pennsylvania, United States. **remarks:** Cooperative registration by USDA-ARS and the Pennsylvania and Wisconsin Agricultural Experiment Stations. Received April 14, 1987.

donor id: VR-1. **origin:** United States. **pedigree:** Polycross of 15 BYMV-free plants. **other id:** GP-15. **disease resistance:** Bean yellow mosaic virus (BYMV) strain 204-1. Breeding Material. Seed.

PI 508273 to 508274. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by: Hanna, W.W., USDA-ARS, Coastal Plain Experiment Station, Tifton, Georgia, United States. **remarks:** Cooperative registration by USDA-ARS and the Department of Agronomy, University of Georgia, Tifton. Received April 14, 1987.

PI 508273 **donor id:** Tift 85D2A1. **origin:** United States. **pedigree:** Tift 85D2B1/5*23D2A1. **other id:** PL-16. **remarks:** Cytoplasmic male sterile, near isogenic. Plants leafy, 1.2m tall at maturity. Seeds greyish brown in color. **disease resistance:** Highly to leaf spot and rust. **received as:** *P. americanum*. Breeding Material. Seed.

PI 508274 **donor id:** Tift 85D2B1. **origin:** United States. **pedigree:** Tift 85D2B1/5**P. glaucum* subsp. *monodii* (PS 34). **other id:** PL-17. **remarks:** Plants self-fertile, productive, leafy and average 1.2m tall at maturity. Seed greyish brown in color. **disease resistance:** Highly to leaf spot and rust. **received as:** *P. americanum*. Breeding Material. Seed.

PI 508275 to 508276. *Triticum aestivum* L. POACEAE Common wheat

Donated by: McDonald, M.D., Research Station, Agriculture Canada, Alberta, Canada. Received April 14, 1987.

PI 508275 **donor id:** Winalta-Rescue 5A(W-R5A). **origin:** Canada. **other id:** 6P-283. **other id:** PGRC 16481. **remarks:** Disomic whole chromosome substitution line. Useful for studying inheritance of cold resistance and investigating the *Vrn 1* gene. Winter Annual. Breeding Material. Seed.

PI 508276 **donor id:** Kharkov 22MC-Rescue 5A (K-R5A). **origin:** Canada. **other id:** GP-284. **other id:** PGRC 16480. **remarks:** Disomic whole chromosome substitution line. Useful for studying inheritance of cold resistance and investigating the *Vrn 1* gene. Winter Annual. Breeding Material. Seed.

PI 508277. *Zea mays* L. POACEAE Corn

Donated by: Wicks, Z.W., Plant Science Department, South Dakota State University, Brookings, South Dakota, United States. Received April 14, 1987.

donor id: SD42. **origin:** United States. **pedigree:** SDP232/H96. **other id:** PL-95. **remarks:** Yellow dent type. Plants dark green with good vigor, average ear fill, good to excellent stalk strength. Cobs red. Potential for hybrid production for central and southern South Dakota. **disease resistance:** Northern corn leaf blight and *Diplodia* stalk rot. **insect resistance:** Average to corn borer. Breeding Material. Seed.

PI 508278. *Arachis hypogaea* subsp. *fastigiata* Waldron FABACEAE Peanut

Donated by: Branch, W.D., Department of Agronomy, Coastal Plain Experiment Station, Tifton, Georgia, United States. **remarks:** Cooperative registration by the University of Georgia and USDA-ARS, Tifton, Georgia. Received April 14, 1987.

donor id: GA T2461-13. **origin:** United States. **cultivar:** Georgia red. **pedigree:** Florunner/New Mexico Valencia A. **other id:** CV-33. **remarks:** Plants compact, bunch valenica type with considerable branching. Foliage dark green. Fruit large. Testa uniformly deep red. Oil content high. Cultivar. Seed.

PI 508279 to 508282. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Hanson, A.A., W.L. Research, Inc., 2000 Oak Street, Bakersfield, California, United States. Received April 14, 1987.

PI 508279 **donor id:** B-10. **origin:** United States. **cultivar:** WL 516. **pedigree:** 219 clone synthetic. **other id:** CV-143. **group:** CSR-ALFALFA. **other id:** PVPO Cert. No. 8600041. **remarks:** Flowers purple, non dormant cultivar adapted for forage use in southern and southwestern regions of USA. **Nematode- resistance:** Moderate to stem nematode. **disease resistance:** High to *Phytophthora* root rot, *Fusarium* wilt. Moderate to bacterial wilt and low to anthracnose. **insect resistance:** Spotted alfalfa, pea, and blue alfalfa aphids. Cultivar. Seed.

PI 508280 **donor id:** 77 T 25. **origin:** United States. **cultivar:** WL Southern special. **pedigree:** 128 clone synthetic. **other id:** CV-144. **group:** CSR-ALFALFA. **remarks:** Flowers dark purple-light purple with some white or green. Intermediate in fall dormancy and moderately winterhardy. Adapted for forage use from Virginia - Georgia and westward to the Southern Great Plains and central California. **disease resistance:** Bacterial wilt. Moderate to anthracnose and *Phytophthora* root rot. **insect resistance:** Pea and spotted alfalfa aphids. Cultivar. Seed.

PI 508281 **donor id:** B-57. **origin:** United States. **cultivar:** WL 605. **pedigree:** 177 clone synthetic. **other id:** CV-145. **group:** CSR-ALFALFA. **other id:** PVPO Cert. No. 8600042. **remarks:** Flowers purple. Non dormant type adapted for forage use in southern USA. Susceptible to anthracnose and bacterial wilt. **disease resistance:** High to *Phytophthora* root rot and *Fusarium* wilt. **insect resistance:** High to spotted alfalfa, blue alfalfa and pea aphids. **nematode resistance:** Moderate to stem nematode. Cultivar. Seed.

PI 508282 **donor id:** Ca 7931-32. **origin:** United States. **cultivar:** WL 320. **pedigree:** 23 clone synthetic. **other id:** CV-146. **group:** CSR-ALFALFA. **other id:** PVPO Cert. No. 8500032. **remarks:** Flowers purple, few blue, and trace of cream. Moderately winter-hardy type adapted for forage use in the northwestern, midwestern and northeastern regions. **Nematode resistance:** Moderate stem nematode. **Insect resistance:** Tolerant to foliar yellowing caused by potato leaf hopper. **disease resistance:** Bacterial and *Fusarium* wilts, *Phytophthora* root rot. Moderate to anthracnose and *Verticillium* wilt. **insect resistance:** Spotted alfalfa aphid. Moderate to pea, blue alfalfa aphids. Cultivar. Seed.

PI 508283. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by: Meyer, W.A., Pure-Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon, United States. **remarks:** Cooperative registration by Pure-Seed Testing, Inc., Turf Seed, Inc., and the New Jersey Agr. Experiment Station. Received April 14, 1987.

donor id: PS-535. **origin:** United States. **cultivar:** Challenger. **pedigree:** NJE P-123/PSU K106. **other id:** CV-30. **group:** CSR-BLUEGRASS. **other id:** PVPO Cert. No. 8500082. **remarks:** Plants low-growing, leafy, turf type with medium fine leaves of bright, dark green color. Excellent spring color and ability to stay green into late fall. Leaves semi-prostrate. Durable turf with high density, medium fine texture, good wear tolerance and excellent winterhardiness. **disease resistance:** Leaf spot, crown rot disease, leaf rust, stem rust. stripe smut and dollar spot. Cultivar. Seed.

PI 508284. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Hurley, R.H., Lofts Seed Inc., P.O. Box 146, Bound Brook, New Jersey, United States. **remarks:** Cooperative registration by Lofts Seed Inc., New Jersey Agr. Experiment Station, Pure-Seed Testing, Inc., and the Univ. of Arizona. Received April 14, 1987.

origin: United States. **cultivar:** Rebel II. **pedigree:** 44 clone synthetic. **other id:** CV-30. **group:** CSR-FESCUE. **remarks:** Plants leafy, persistent, attractive, moderately low growing, turf-type with moderately good shade tolerance. Possesses a deep root system with good drought tolerance. Performs well in soil types with reduced fertility level. Heat tolerance: Good. **disease resistance:** Improved to crown rust and net blotch. Moderate resistance to large brown patch. **cold tolerance:** Good winter hardiness. Cultivar. Seed.

PI 508285. *Hemarthria altissima* (Poiret) Stapf & C. E. Hubb. POACEAE Limpograss

Donated by: Quesenberry, K.H., Agronomy Department, University of Florida, Gainesville, Florida, United States. **remarks:** Cooperative registration by the University of Florida and Texas Agri. Experiment Station. Received April 14, 1987.

PI 508285-continued

donor id: FL 279. **origin:** United States. **cultivar:** Floralta. **pedigree:** Vegetative selection from PI 364888. **other id:** CV-107. **group:** CSR-OTHER GRASSES. **remarks:** Selected for improved yield and persistence under intensive grazing. Persistent under low fertility, responds to high levels of nitrogen. Adapted to poorly drained soils of peninsular Florida, coastal areas of SE United States and many tropical areas. Cultivar. Plant.

PI 508286 to 508288. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Lafever, H.N., Department of Agronomy, Ohio State University, Ohio Agri. Research and Development Ctr., Wooster, Ohio, United States. Received April 8, 1987.

PI 508286 **donor id:** OH 235. **origin:** United States. **cultivar:** GR855. **pedigree:** Hart/Va 66-54-10. **other id:** 22272-26. **other id:** CV-729. **group:** CSR-WHEAT. **remarks:** Baking quality good. Milling quality above average. Soft red type. Susceptible to leaf rust. **insect resistance:** Races A and C of Hessian fly. **disease resistance:** Mildew and spindle streak mosaic virus. Winter Annual. Cultivar. Seed.

PI 508287 **donor id:** OH 256. **origin:** United States. **cultivar:** GR863. **pedigree:** Xelaju 66/Logan//Abe. **other id:** 7373ABC-18. **remarks:** Plants with red chaff and awns, purpling of ligule and auricles prior to maturity. Maturity very early. Straw very short, stiff. Satisfactory milling and baking quality. Soft red type. **disease resistance:** Mildew and spindle streak mosaic virus. Moderate to leaf rust. **insect resistance:** races A and C of Hessian fly. Winter Annual. Cultivar. Seed.

PI 508288 **donor id:** OH 260. **origin:** United States. **cultivar:** GR860. **pedigree:** C517/Logan//Mo W8184/Va 66-5410. **other id:** 14273-6. **remarks:** Plants white chaffed, awnless with a distinctively erect head at maturity, short statured. Maturity early. Straw stiff, superior in strength. Special purpose type for relay and double cropping systems. Excellent milling and baking quality. Soft red type. **disease resistance:** Mildew and spindle streak mosaic virus. Highly to leaf rust. **insect resistance:** Races A and C of Hessian fly. Winter Annual. Cultivar. Seed.

PI 508289. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Spilde, L.A., Foundation Seedstocks, Dept. of Agronomy, North Dakota St.Univ., P.O. Box 5051, Fargo, North Dakota, United States. Received May 08, 1987.

donor id: ND8002. **origin:** United States. **cultivar:** Seward. **other id:** CV-730. **group:** CSR-WHEAT. **remarks:** Spikes awned, fusiform, middense and usually erect at maturity. Glumes white. Kernals hard, red, ovate and midlong with midsize embryo, shallow crease, rounded cheek and medium non-collared brush. Conventional height. Adapted to Northern Great Plains. **cold tolerance:** Intermediate winter hardiness. **disease resistance:** Stem rust races 15TNM and 15TLM. Winter Annual. Cultivar. Seed.

PI 508290. *Cicer arietinum* L. FABACEAE Chickpea

Donated by: Isom, W.H., Agriculture Extension Service, University of California, Riverside, California, United States. **remarks:** Received through Western Regional Plant Introduction Station, Pullman, Washington. Received April 14, 1987.

donor id: G79-109. **origin:** United States. **remarks:** Kabuli type. Flowers white, large. Reselection for root rot resistance from White Spanish. **disease resistance:** Root rot. Cultivated. Seed.

PI 508291 to 508292. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: Mutschler, M.A., Department of Plant Breeding & Biometry, Cornell University, 252 Emerson Hall, Ithaca, New York, United States. Received April 10, 1987.

PI 508291 **donor id:** 811298. **origin:** United States. **cultivar:** Oscar Pearson hard fruit. **pedigree:** Cornell 657/UC 145-8//Ace/Window Box///UC 145/111. HA21. **remarks:** Fruit bright red, extremely firm. Developed by Oscar Pearson, Cornell University. **disease resistance:** Verticillium and Fusarium race 1. Cultivar. Seed.

PI 508292 **donor id:** 841184. **origin:** United States. **pedigree:** New Yorker/Alcobaca. **other id:** Cornell 111. **remarks:** Plants homozygous for ripening mutant alcobaca. Source of alc gene with linkage of alc and U broken. Breeding Material. Seed.

PI 508293 to 508298. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Dudley, T.R., US National Arboretum, 3501 New York Avenue, N.E., Washington, D.C., United States. **remarks:** Stage II - 1985 US National Arboretum Plant Exploration in Korea. Received April 06, 1987.

PI 508293 **donor id:** NA 56570. **origin:** Korea, Republic of. **collected:** September 22, 1985. **collector:** T.R. Dudley, B.R. Yinger. **collector id:** 3589. **locality:** Cultivated by Choi, Ki Jae, Chin-ri 3-Dong village, Taehuksan Island, Huksan Myon, Shin An Gun, Cholla Namdo. **latitude:** 34 deg. 41 min. N. **longitude:** 125 deg. 25 min. E. **remarks:** Plants 40cm tall. Leaves yellow-green, dull above, drying brown. Pods ripening yellow-green to brown. Seeds pale yellow, small. Reportedly grown here for many generations. Annual. Landrace. Seed.

PI 508294 **donor id:** NA 56622. **origin:** Korea, Republic of. **collected:** October 04, 1985. **collector:** T.R. Dudley, B.R. Yinger. **collector id:** 3678. **locality:** Chintung village, Mongsan-ri 5-ku, Mangyong Myon, Kimje Gun, Cholla Pukto. **latitude:** 35 deg. 54 min. N. **longitude:** 126 deg. 50 min. E. **remarks:** Plants 50cm tall. Leaves dull yellow-green, mostly fallen. Pods yellow-green turning light brown, not dehisced. Seeds harvested before collected. Annual. Landrace. Seed.

PI 508295 **donor id:** NA 56623. **origin:** Korea, Republic of. **collected:** October 04, 1985. **collector:** T.R. Dudley, B.R. Yinger. **collector id:** 3679. **locality:** Chintung village, Mongsan-ri 5-ku, Mangyong Myon, Kimje Gun, Cholla Pukto. **latitude:** 35 deg. 54 min. N. **longitude:** 126 deg. 50 min. E. **remarks:** Plants about 1.0m tall. Leaves dry and brown, mostly fallen. Pods dry, medium brown to gray, not dehisced. Seeds harvested before collected. Annual. Landrace. Seed.

PI 508296 **donor id:** NA 56702. **origin:** Korea, Republic of. **local name:** Kumjong kong or Maeju kong. **collected:** October 15, 1985. **collector:** T.R. Dudley, B.R. Yinger. **collector id:** 3782. **locality:** Songchong-ri, Imhwa Myon, Chindo Gun. **latitude:** 34 deg. 23 min. N. **longitude:** 126 deg. 12 min. E. **remarks:** Plants about 30cm tall, harvested before seen. Pods dark brown. Fermented to make bean paste. Annual. Landrace. Seed.

PI 508293 to 508298-continued

PI 508297 **donor id:** NA 56703. **origin:** Korea, Republic of.
collected: October 15, 1985. **collector:** T.R. Dudley,
B.R. Yinger. **collector id:** 3783. **locality:**
Songchong-ri, Imhwa Myon, Chindo Gun. **latitude:** 34 deg.
23 min. N. **longitude:** 126 deg. 12 min. E. **remarks:**
Plants about 25cm tall, harvested before seen. Leaves
withered, brown. Pods yellow-brown. Type used especially
for kong namul (bean sprouts). Annual. Landrace. Seed.

PI 508298 **donor id:** NA 56704. **origin:** Korea, Republic of.
collected: October 15, 1985. **collector:** T.R. Dudley,
B.R. Yinger. **collector id:** 3786. **locality:** Pyongmok,
Somang, Imhui Myon, Chindo Gun, Cholla Namdo. **latitude:**
34 deg. 21 min. N. **longitude:** 126 deg. 08 min. E.
remarks: Plants about 30cm tall, harvested before seen.
Pods pale brown. Type used for fermenting to make bean
paste. Annual. Landrace. Seed.

PI 508299. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: National Bureau of Plant Genetic Res., PUSA Campus, New
Delhi - 110012, India. **remarks:** Received through T.H. Barksdale,
Vegetable Laboratory, USDA- ARS, Beltsville, Maryland. Received
April 22, 1987.

origin: India. **cultivar:** White kandhari. **other id:** C
18515. **locality:** Kerrala. **remarks:** Fruit small, white,
used to flavor rice. Cultivated. Seed.

PI 508300. *Cucumis metuliferus* E. Mey. ex Naud. CUCURBITACEAE

Donated by: Keesing, J.L.S., Living Collections Division, Royal
Botanic Gardens, Kew, Richmond, Surrey, England, United Kingdom.
Received October 1986.

donor id: 193-705-01941. **origin:** United Kingdom. Seed.

PI 508301. *Avena sativa* L. POACEAE Common oat

Donated by: Coker's Pedigreed Seed Co., P.O. Box 340, Hartsville,
South Carolina, United States. **remarks:** Released by Coker's
Pedigreed Seed Co. in 1983. Received May 1, 1987.

origin: United States. **cultivar:** Coker 820. **pedigree:**
Coker 78-28/Coker 74-21. **remarks:** Maturity same as
Florida 501. Susceptible to stem rust and barley yellow
dwarf virus. Resistant to lodging. **disease resistance:**
Crown rust, fair to soil borne Mosaic virus. Facultative
Annual. Cultivar. Seed.

PI 508302 to 508350. Pennisetum glaucum (L.) R. Br. POACEAE Pearl
millet

Donated by: Perret, P.M., IBPGR, Rome, Italy; and Sherring, J.,
ICRISAT, Patancheru, India. **remarks:** Received through IBPGR, Rome,
Italy. Received August 19, 1983.

PI 508302 donor id: MA 02. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508303 donor id: MA 02BIS. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508304 donor id: MA 05. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508305 donor id: MA 06. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508306 donor id: MA 06BIS. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508307 donor id: MA 07. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508308 donor id: MA 10. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508309 donor id: MA 12. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508310 donor id: MA 15. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508311 donor id: MA 15BIS. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508312 donor id: MA 16. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508313 donor id: MA 19. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508314 donor id: MA 19BIS. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508315 donor id: MA 20. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508316 donor id: MA 21. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508317 donor id: MA 22. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508302 to 508350-continued

PI 508318	donor id: MA 23.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508319	donor id: MA 30.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508320	donor id: MA 36.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508321	donor id: MA 39.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508322	donor id: MA 40.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508323	donor id: MA 42.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508324	donor id: MA 44.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508325	donor id: MA 46.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508326	donor id: MA 47.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508327	donor id: MA 48.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508328	donor id: MA 49.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508329	donor id: MA 51.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508330	donor id: MA 53.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508331	donor id: MA 54.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508332	donor id: MA 55.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508333	donor id: MA 59.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508334	donor id: MA 61.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	

PI 508302 to 508350-continued

PI 508335	donor id: MA 62.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508336	donor id: MA 64.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508337	donor id: MA 67.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508338	donor id: MA 70.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508339	donor id: MA 73.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508340	donor id: MA 76.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508341	donor id: MA 78.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508342	donor id: MA 80.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508343	donor id: MA 83.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508344	donor id: MA 84.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508345	donor id: MA 87.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508346	donor id: MA 89.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508347	donor id: MA 91.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508348	donor id: MA 92.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508349	donor id: MA 94.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	
PI 508350	donor id: MA 95.	origin: Mali.	collected: 1982.
	Cultivated.	Seed.	

PI 508351 to 508360. Pennisetum sp. POACEAE

Donated by: Perret, P.M., IBPGR, Rome, Italy; and Sherring, J., ICRISAT, Patancheru, India. **remarks:** Received through IBPGR, Rome, Italy. Received August 19, 1983.

PI 508351 donor id: MA 01. origin: Mali. collected: 1982. Wild. Seed.

PI 508352 donor id: MA 04. origin: Mali. collected: 1982. Wild. Seed.

PI 508353 donor id: MA 08. origin: Mali. collected: 1982. Wild. Seed.

PI 508354 donor id: MA 11. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508355 donor id: MA 13. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508356 donor id: MA 25. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508357 donor id: MA 31. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508358 donor id: MA 41. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508359 donor id: MA 43. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508360 donor id: MA 45. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508361 to 508383. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Perret, P.M., IBPGR, Rome, Italy; and Sherring, J., ICRISAT, Patancheru, India. **remarks:** Received through IBPGR, Rome, Italy. Received August 19, 1983.

PI 508361 donor id: MA 29. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508362 donor id: MA 32. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508363 donor id: MA 34. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508364 donor id: MA 35. origin: Mali. collected: 1982. Cultivated. Seed.

PI 508361 to 508383-continued

PI 508365 donor id: MA 37. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508366 donor id: MA 38. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508367 donor id: MA 56. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508368 donor id: MA 57. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508369 donor id: MA 58. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508370 donor id: MA 60. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508371 donor id: MA 61. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508372 donor id: MA 63. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508373 donor id: MA 65. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508374 donor id: MA 66. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508375 donor id: MA 68. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508376 donor id: MA 69. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508377 donor id: MA 71. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508378 donor id: MA 72. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508379 donor id: MA 74. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508380 donor id: MA 75. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508381 donor id: MA 79. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508361 to 508383-continued

PI 508382 donor id: MA 81. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508383 donor id: MA 93. origin: Mali. collected: 1982.
Cultivated. Seed.

PI 508384 to 508400. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Blum, A., Plant Introduction Service, Volcani Center, P.O.B. 6, Bet Dagan, Israel. **remarks:** Received through C.F. Konzak, Dept. of Agronomy and Soils, Washington State University, Pullman, Washington. Received April 13, 1987.

PI 508384 donor id: V764-1-J3-B2-J-3. origin: Israel. pedigree: Bluebird Tordo//Lachish/3/Nursi/T. dicoccoides (strain G-25). other id: 80ISHP15. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508385 donor id: V764-14-J2-B2-J2. origin: Israel. pedigree: Bluebird Tordo//Lachish/3/Nursi/T. dicoccoides (strain G-25). other id: 80ISHP16. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508386 donor id: V879-B2-B12-J2. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//708-26/3/VC293. other id: 80ISHP22. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508387 donor id: V882-F22-B2-B3-B2-J2. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//Merav/3/V378-751. other id: 80ISHP43. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508388 donor id: 1108/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//708-26/3/Cajeme-71. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508389 donor id: 1115/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//708-26/3/Cajeme-71. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508384 to 508400-continued

- PI 508390 donor id: 1116/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//708-26/3/Cajeme-71. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.
- PI 508391 donor id: 1117/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//708-26/3/Cajeme-71. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.
- PI 508392 donor id: 1150/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//708-26/3/Cajeme-71. remarks: T. dicoccoies (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.
- PI 508393 donor id: 1166/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//708-26/3/Cajeme-71. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.
- PI 508394 donor id: 1190/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//Merav/3/V399-288. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.
- PI 508395 donor id: 1287/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//Merav/3/V378-751. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.
- PI 508396 donor id: 1335/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//Merav/3/V378-751. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.
- PI 508397 donor id: 1342/83. origin: Israel. pedigree: Nursi/T. dicoccoides (strain G-25)//Merav/3/V378-751. remarks: T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508384 to 508400-continued

PI 508398 **donor id:** 1393-83. **origin:** Israel. **pedigree:** Nursi/T. dicoccoides (strain G-25)//Merav/3/V378-751. **remarks:** T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508399 **donor id:** 1404/83. **origin:** Israel. **pedigree:** Nursi/T. dicoccoides (strain G-25)//Merav/3/V378-751. **remarks:** T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508400 **donor id:** 1405/83. **origin:** Israel. **pedigree:** Nursi/T. dicoccoides (strain G-25)//Merav/3/V378-751. **remarks:** T. dicoccoides (strain G-25) used to obtain higher protein and stripe rust resistance. Spring Annual. Breeding Material. Seed.

PI 508401 to 508406. *Allium fistulosum* L. LILIACEAE Welsh onion

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508401 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Big buncher. **remarks:** Plants vigorous, 50cm tall with 6-8 stems. Stems soft, crisp and pleasant flavored. Not winterhardy. Cultivar. Seed.

PI 508402 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd.. **cultivar:** Footlong white. **remarks:** Plants 40-50cm tall with a single stem 2.5-3cm wide. Stems are white and crispy. **cold tolerance:** Winterhardy. Cultivar. Seed.

PI 508403 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd.. **cultivar:** Hybrid footlong. **remarks:** Plants very uniform, nontillering, 40-50cm tall. Stems white. Leaves soft, but resist lodging. Use of hills and fertilizers desirable. Cold tolerance. Cultivar. Seed.

PI 508404 **origin:** Korea, Republic of. **origin institute:** Korea Choong Ang Seed., Ltd., Seoul. **cultivar:** Prolific buncher. **remarks:** Plants 60cm tall with 5-6 stems, hard prolific tillering bunch type. Stems and leaves tender with sweet, delicate flavor. Performs best with heavy application of fertilizer and moderate hilling around base. **cold tolerance:** Suitable for overwintering. Cultivar. Seed.

PI 508401 to 508406-continued

PI 508405 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Prolific twin. **remarks:** Plants prolific tillering bunch type with 2-3 stems each. Fast vigorous grower. Stems very tender, 40cm long, delicious flavor. Cultivar. Seed.

PI 508406 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Seoul. **cultivar:** Winter snow foot. **remarks:** Plants single stemmed, early vigorous growth. Stems white, 45cm long, upright. Marketed early from late October. Cultivar. Seed.

PI 508407. *Allium schoenoprasum* L. LILIACEAE Chives

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

origin: Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd, Seoul. **cultivar:** Green belt. **remarks:** Plants vigorous, with many tillers. Leaves dark green, wide, large, soft and pleasant flavored. Used for cooking and Kimchee. Cold tolerance. Heat tolerance. Disease resistance. Cultivar. Seed.

PI 508408 to 508409. *Brassica chinensis* L. BRASSICACEAE Pakchoi

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508408 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd, Seoul. **cultivar:** Green pakchoi. **local name:** Tropical Chinese green. **remarks:** Leaves with soft, thick, green petioles, tasty when cooked with meat and other vegetables. Cultivar. Seed.

PI 508409 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** White pakchoi. **local name:** Tropical Chinese green. **remarks:** Leaves round, dark green with fleshy white petioles. Sow July to September. Heat tolerance. Cultivar. Seed.

PI 508410. *Brassica oleracea* var. *botrytis* L. BRASSICACEAE
Cauliflower

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508410-continued

origin: Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Snow ace. **remarks:** Maturity 45-50 days after transplanting. Leaves narrow, short, green. Heads round, white. Sow summer. Cultivar. Seed.

PI 508411 to 508413. *Brassica oleracea* var. *capitata* L. BRASSICACEAE
Cabbage

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508411 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Autumn hero. **remarks:** Maturity 90 days. Heads large, semiflat, green, 15x24cm, 2.1-2.5kg, crispy, tasty. Sow midsummer, harvest fall. Used for salad and cooking. **disease resistance:** Black and soft rots. Heat tolerance. Cultivar. Seed.

PI 508412 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Summer best. **remarks:** Maturity 95 days. Heads semiflat, dark green, 14x21cm, 1.9kg, crispy, tasty. Sow late spring, harvest midsummer. Used for salad and cooking. Heat tolerance. Cultivar. Seed.

PI 508413 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co, Ltd., Seoul. **cultivar:** KR four season. Cultivar. Seed.

PI 508414 to 508430. *Brassica pekinensis* (Lour.) Rupr. BRASSICACEAE
Chinese cabbage

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508414 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** All season ace. **remarks:** Maturity 65 days. Cultivated in late spring, early summer and fall. Used for Kimchee. **disease resistance:** Downy mildew and viruses. Cultivar. Seed.

PI 508415 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Chihli. **remarks:** Maturity 70-80 days. Cultivated in summer and fall. Used for cooking salad. **disease resistance:** Downy mildew and soft rot. Cultivar. Seed.

PI 508414 to 508430-continued

- PI 508416 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Early fullmoon. **remarks:** Maturity in 60 days. Cultivated in fall. Used for Kimchee, cooking. **disease resistance:** Viruses, soft rot, downy mildew and blackleg. Cultivar. Seed.
- PI 508417 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Early meeho. **remarks:** Maturity 65 days. Cultivated in fall. Used for Kimchee, cooking. **disease resistance:** Downy mildew and viruses. Cultivar. Seed.
- PI 508418 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Early spring. **remarks:** Maturity 60 days. Cultivated in early spring and indoors. Used for Kimchee, cooking. Requires higher night temperatures to prevent bolting during early stage. Cultivar. Seed.
- PI 508419 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Fall winner. **remarks:** Maturity 65 days. Cultivated in fall. Used for Kimchee, cooking. **disease resistance:** Downy mildew, soft rot, and blackleg. Cultivar. Seed.
- PI 508420 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Glory. **remarks:** Maturity 65 days. Cultivated in fall. Used for Kimchee, cooking. **disease resistance:** Viruses and soft rot. Cultivar. Seed.
- PI 508421 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Green Seoul. **remarks:** Maturity 70 days. Cultivated in spring. Used for Kimchee, cooking. Cultivar. Seed.
- PI 508422 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Late spring. **remarks:** Maturity 65-70 days. Cultivated in late spring, summer. Used for Kimchee, cooking. **disease resistance:** Downy mildew, viruses, and blackleg. Cultivar. Seed.
- PI 508423 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Spring hero. **remarks:** Maturity 60 days. Cultivated in early spring and indoors. Used for Kimchee, cooking. Cultivar. Seed.
- PI 508424 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Spring king. **remarks:** Maturity 60-65 days. Cultivated in spring. Used for Kimchee, cooking. **disease resistance:** Downy mildew, viruses, and blackleg. Cultivar. Seed.

PI 508414 to 508430-continued

- PI 508425 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Alpine summer. **remarks:** Maturity 75 days. Heads 30cm tall, 20-25cm wide, 2.0-3.5kg, green, very attractive, uniform. Developed for early spring production under vinyl house, and for summer at high elevations. Used for Kimchi and cooking. **disease resistance:** Virus, downy mildew and bacterial soft rot. Cultivar. Seed.
- PI 508426 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Autumn king. **remarks:** Maturity 70 days. Plants vigorous, 20-25cm wide, 3.0-4.0kg, green, firm outer leaves, uniform and delicious. Used for Kimchi and cooking. **disease resistance:** Virus, downy mildew and bacterial soft rot. Heat tolerance. Cultivar. Seed.
- PI 508427 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Disease resistant 60. **remarks:** Maturity 55-60 days. Plants vigorous, 16-18cm wide, 2.1-2.5kg, dark green, firm few outer leaves. Used for Kimchi and cooking. **disease resistance:** Downy mildew, bacterial soft rot, root rot. Heat tolerance. Cultivar. Seed.
- PI 508428 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Early spring giant. **remarks:** Maturity 75 days. Plants vigorous, 19-23cm wide, 2.9-3.2kg, green, firm. Slow to bolt in mid-winter under vinyl. Caution to keep temperature above 15 deg C, and to use compost, borax and lime. Used for Kimchi and cooking. **disease resistance:** Virus and bacterial soft rot. Cold tolerance. Cultivar. Seed.
- PI 508429 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Favorite winner. **remarks:** Maturity 68 days. Plants 16-19cm wide, 3.0-3.5kg, green, few outer leaves. **disease resistance:** Virus, downy mildew and bacterial soft rot. Cultivar. Seed.
- PI 508430 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** New autumn king. **remarks:** Maturity 73 days. Plants 16-19cm wide, 3.0-3.5kg, green, remarkable keeping quality. Used for Kimchi and cooking. **disease resistance:** Virus, downy mildew and bacterial soft rot. Cold tolerance. Cultivar. Seed.

PI 508431 to 508440. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

- PI 508431 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Hot long. **remarks:** Maturity 77 days. Yield high. Fruit pendant, 10-12cm long and 2-2.2cm wide. Flesh thick, pungent, medium green to red. Used fresh or dried. **disease resistance:** Late blight and bacterial wilt. Cultivar. Seed.
- PI 508432 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Hungnong ace. **remarks:** Plants vigorous. Maturity early. Yield high. Fruit pendant, large, thick-walled. Flesh dark green to red, very sweet. Used fresh. Cultivar. Seed.
- PI 508433 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Long green. **remarks:** Maturity 78 days. Yield high. Fruit pendant, 12-14cm long and 1.6-1.8cm wide. Flesh medium thick, mild, dark green. Used fresh. Cold tolerance. Cultivar. Seed.
- PI 508434 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Oriental glory. **remarks:** Maturity early. Yield high. Fruit pendant, blocky, extra large, waxy. Flesh thick, green, sweet. Used fresh. Cultivar. Seed.
- PI 508435 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Skyline. **remarks:** Maturity 87 days. Yield high. Fruit upright, 6-8cm long and 0.8-1.2cm wide. Flesh thin, very hot, dark green to red. Used dried. Cultivar. Seed.
- PI 508436 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Twist green. **remarks:** Maturity 78 days. Yield high, persistent. Fruit pendant, 6-7cm long and 1.6-1.8cm wide. Flesh thin, fine texture, sweet. Used fresh. Cultivar. Seed.
- PI 508437 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co. Ltd., Seoul. **cultivar:** Big star. **remarks:** Maturity 85-90 days. Fruit deep red, 12-13cm long with strong pungent odor. Semi-forcing type cultivation. Use dried. **disease resistance:** Phytophthora and tobacco mosaic virus. Cultivar. Seed.

PI 508431 to 508440-continued

PI 508438 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co. Ltd., Seoul. **cultivar:** Early spring green. **remarks:** Maturity 80-85 days. Fruit deep green, 11-13cm long with mild odor. Forcing type cultivation. Use fresh. Cold tolerance. Cultivar. Seed.

PI 508439 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co. Ltd., Seoul. **cultivar:** King horn. **remarks:** Maturity 90-93 days. Fruit deep red, 8-10cm long with strong odor. Semi-forcing open field type cultivation. Used dried. **disease resistance:** Phytophthora, and tobacco mosaic virus. Cultivar. Seed.

PI 508440 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co. Ltd., Seoul. **cultivar:** Red champion. **remarks:** Maturity 90-93 days. Fruit deep red, 7-9cm long with strong odor. Open field type cultivation. Use dried. **disease resistance:** Phytophthora, tobacco mosaic virus, anthracnose. Bacterial leaf spot. Cultivar. Seed.

PI 508441 to 508446. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
CUCURBITACEAE Watermelon

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508441 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Champion. **remarks:** Maturity 85 days. Fruit oblong, solid green. Flesh bright red. **disease resistance:** Stripe virus. Cultivar. Seed.

PI 508442 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Goldin. **remarks:** Maturity 76 days. Fruit globular, black and green striped. Flesh yellow. **disease resistance:** Medium to stripe. Cultivar. Seed.

PI 508443 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Olympia. **remarks:** Maturity 83 days. Fruit oblong, black and green striped. Flesh bright red. **disease resistance:** Stripe virus. Cultivar. Seed.

PI 508444 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Sweet gem. **remarks:** Maturity 80 days. Fruit globular, black and green striped. Flesh bright red. **disease resistance:** Medium to stripe virus. Cultivar. Seed.

PI 508441 to 508446-continued

PI 508445 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Summer king. **remarks:** Maturity 110-120 days. Fruit green striped, globe shaped. Flesh bright red. Open field type cultivation. **disease resistance:** Anthracnose and Phytophthora. Cultivar. Seed.

PI 508446 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Summer queen. **remarks:** Maturity 110-115 days. Fruit green striped, blocky-round oval. Flesh bright red. Semi-forcing, open field type cultivation. **disease resistance:** Anthracnose. Cultivar. Seed.

PI 508447 to 508452. Cucumis melo L. CUCURBITACEAE Cantaloupe

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508447 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Golden gem. **remarks:** Grown primarily indoors. Sow in early spring. Maturity 110 days. Fruit oval, 9x13cm, 360-440g, with golden yellow skin and thick white flesh. **disease resistance:** Medium. Cold tolerance. Cultivar. Seed.

PI 508448 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Morning star. **remarks:** Plant vigorous, adapted to wide range of soil. Fruit round, green with light netting. Flesh very sweet and tasty. **disease resistance:** Fusarium wilt. Cultivar. Seed.

PI 508449 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** New flavor. **remarks:** Grown in or outdoors. Sow in early spring. Maturity 110 days. Fruit oval, 8x11cm, 250-290g, with yellow skin and thick white flesh. Requires frequent pinching and generous fertilizer. **disease resistance:** Strong. Cultivar. Seed.

PI 508450 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Silver line. **remarks:** Grown primarily indoors in winter. Sow in early spring. Maturity 100 days. Fruit oval, 9x11cm, 300g, with golden yellow skin and silver sutures. Flesh thick, white, very sweet and crispy. **disease resistance:** Medium. Cold tolerance. Cultivar. Seed.

PI 508447 to 508452-continued

- PI 508451 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Silver honey. **remarks:** Fruit oval shaped, 400-500g, 12-15cm long, 10-12cm diameter. Skin yellow silver with distinctive greenish furrows. Flesh white, solid with extra sweetness. Pinching young fruits which set on lower internode strongly recommended. Cold tolerance. Cultivar. Seed.
- PI 508452 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Silver liner. **remarks:** Fruit weigh 500g. Skin yellow with silver furrows when fully matured. Flesh white, tender and very sweet. Excellent shipping quality. **disease resistance:** To several common diseases. Cultivar. Seed.

PI 508453 to 508460. Cucumis sativus L. CUCURBITACEAE Cucumber

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

- PI 508453 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Hungnong semiwhite. **remarks:** Plants vigorous, very productive, adapted to wide range of soils. Sow in spring. Fruit 18cm long, 140g, excellent eating quality with pleasant flavor. Used for slicing or pickling. Disease resistance. Cultivar. Seed.
- PI 508454 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** New black pearl. **remarks:** Plants very productive, adapted to wide range of growing conditions, less sensitive to temperature and photoperiod. Sow in summer. Fruit 32cm long, 170g. Used for slicing. Disease resistance. Cultivar. Seed.
- PI 508455 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Summer fresh. **remarks:** Plants vigorous, very productive, adapted to wide range of soils. Sow in midspring. Fruit 20-25cm long, 150g, waxy, dark green, excellent taste. Used for slicing. Disease resistance. **heat tolerance:** Heat and humidity. Cultivar. Seed.
- PI 508456 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Tender green. **remarks:** Plants high yielding. Sow in spring. Fruit 18cm long, 140g, crispy with tender skin. Used for slicing and pickling. Tolerant to high soil moisture. **disease resistance:** Downy mildew. Cold tolerance. Cultivar. Seed.

PI 508453 to 508460-continued

- PI 508457 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Green titan. **remarks:** Fruits 28-32cm weighing 200-250gm. Fruit dark green with white spine. Gynoecious. Semi-forcing type cultivation. Used for fresh market. **disease resistance:** Downy mildew, powdery mildew and angular leafspot. Cultivar. Seed.
- PI 508458 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** New horse silver. **remarks:** Fruits 22-24cm long weighing 150-180gm. Fruit silver white with black spine. Monoecious. Forcing or retarding type cultivation. Used for fresh market or pickling. **disease resistance:** Fusarium wilt. Cultivar. Seed.
- PI 508459 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Seoul. **cultivar:** Smart green. **remarks:** Fruits 27-30cm long weighing 200-250gm. Fruit green with black spines. Gynoecious. Forcing or retarding type cultivation. Used for fresh market. **disease resistance:** Resistant to Anthracnose and downy mildew. Cultivar. Seed.
- PI 508460 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Seoul. **cultivar:** Summer long. **remarks:** Fruits 30-33cm long weighing 220-270gm. Fruit dark green with white spines. Monoecious. Open field or semi-forcing type cultivation. Used for fresh market. **disease resistance:** Downy mildew, powdery mildew, cucumber mosaic virus. Phytophthora. Cultivar. Seed.

PI 508461 to 508462. Cucurbita maxima Duch. CUCURBITACEAE Winter squash

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

- PI 508461 **origin:** Korea, Republic of. **origin institute:** Hungnong seed Co., Ltd., Seoul. **cultivar:** Ebony sweet. **remarks:** Vine type, thrives in poor soils. Maturity 95-100 days. Fruit oblate, dark green tinged with light green, 9x15cm, 1.1kg. Flesh orange yellow, sweet enough for dessert. Cultivar. Seed.
- PI 508462 **origin:** Korea, Republic of. **origin institute:** Choong ang Seed Co., Ltd., Seoul. **cultivar:** Golden cooker. **remarks:** Vine type. Maturity 30-35 days after flowering. Fruit flesh orange, dry, fine textured. Widely adapted to various soil types. Noted for excellent nut-like flavor when cooked. Cold tolerance. Cultivar. Seed.

PI 508463 to 508466. *Cucurbita moschata* (Duch.) Duch. ex Poir.
CUCURBITACEAE Winter Squash

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

- PI 508463 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Early bulam. **remarks:** Vine type. grown in and outdoors. Maturity 65-70 days. Fruit global, smooth, light green, 11x11cm, 300-400g, tasty. Flesh light yellow. Cultivar. Seed.
- PI 508464 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Oriental wonder. **remarks:** Vine type. Maturity 60-65 days. Leaves small. Fruit cylindrical, smooth, light green, 16-19cm long, 4-4.5cm wide, 250-300g. Flesh light yellow, extremely tasty. Heat tolerance. Cultivar. Seed.
- PI 508465 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Jewel green. **remarks:** Vine type, extra early maturing. Fruits 20cmx10cm, weighing 450-550 g. Fruit dark green with green-gray stripes. Delicious. Performs well under low temperature and weak light intensity. Cultivar. Seed.
- PI 508466 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Seoul emerald. **remarks:** Vine type. Fruit light green, cylindrical 15-20cm long, weighing 400gms. Performs best when used in fertile soil. Cold tolerance. Heat tolerance. Cultivar. Seed.

PI 508467 to 508469. *Cucurbita pepo* L. CUCURBITACEAE

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

- PI 508467 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Bulam house. **remarks:** Bush zucchini type grown in or outdoors. Maturity 50-55 days. Fruit cylindrical, waxy, light green, 25-27cm long, 4-5cm diam., 260-310g, crispy, tasty. Flesh white. Cold tolerance. Cultivar. Seed.
- PI 508468 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Golden zucchini. **remarks:** Bush zucchini type. Maturity 50-55 days. Fruit cylindrical, yellow, 20-25cm long, 4-4.5cm diam., 250-300g, tasty. Flesh light yellow. Cultivar. Seed.

PI 508467 to 508469-continued

PI 508469 **origin:** Korea, Republic of. **origin institute:** Choong Ang seed Co., Ltd., Seoul. **cultivar:** Zucchini. **remarks:** Bush type, compact. Fruits cylindrical, elongated, smooth, very dark green with greenish white flesh. Very prolific under indoor forcing. Texture and taste very good. Cold tolerance. Cultivar. Seed.

PI 508470 to 508474. *Daucus carota* subsp. *sativus* (Hoffm.) Arcang.
APIACEAE Carrot

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508470 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Spring favor. **remarks:** Chantenay type. Maturity 90 days. Roots 16-20cm long, 150-180g. blunt tapered, waxy, deep orange. Cold tolerance. Heat tolerance. **disease resistance:** Medium to leaf diseases. Cultivar. Seed.

PI 508471 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Summer favor. **remarks:** Chantenay type. Maturity 85 days. Roots 18-22cm long, 180-230g. blunt tapered, deep orange. **disease resistance:** Strong to leaf diseases. Heat tolerance. Cultivar. Seed.

PI 508472 **origin:** Korea, Republic of. **origin institute:** Choong ang seed Co., Ltd., Seoul. **cultivar:** Prolific 5. **remarks:** Chantenay type. Roots cylindrical, blunt end, 15-18cm long, weighing 180-200g, light reddish. Summer culture, high elevation. **disease resistance:** Black leaf blight. Cultivar. Seed.

PI 508473 **origin:** Korea, Republic of. **origin institute:** Choong ang seed Co., Ltd., Seoul. **cultivar:** Red core. **remarks:** Chantenay type. Roots short, blunt end, 16-18cm long, weighing 150-200gm, deep red in core. Spring culture (forcing in warm areas). Heat tolerance. Cultivar. Seed.

PI 508474 **origin:** Korea, Republic of. **origin institute:** Choong ang seed Co., Ltd., Seoul. **cultivar:** Spring early. **remarks:** Roots wide shoulder, blunt ended, 17-19cm long, weighing 140-200gr, deep bright red orange. Spring culture (forcing in warm areas). Cold tolerance. Cultivar. Seed.

PI 508475 to 508479. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

- PI 508475 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Green orient. **remarks:** Maturity 30 days. Loose leaf, fast growing type. Leaves green, tasty. Cultivar. Seed.
- PI 508476 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Red orient. Cultivar. Seed.
- PI 508477 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Seoul green. **remarks:** Loose leaf, fast-growing type. Leaves light green, curled and fringed. Sow early spring and fall. Cold tolerance. Cultivar. Seed.
- PI 508478 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Seoul ruby. **remarks:** Loose leaf, fast-growing type. Leaves light green with purplish red ridges, curled and fringed. Heat tolerance. Cultivar. Seed.
- PI 508479 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Ruby koreana. **remarks:** Loose leaf type. Leaves light purple, frilled. Attractive to eye as well as delicious. Grown all year including forcing in vinyl-house tunnel, home garden, and open field production. Cultivar. Seed.

PI 508480 to 508482. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

- PI 508480 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Pink forcer. **remarks:** Plants indeterminate, vigorous, high yielding, grown in or outdoors. Maturity 53 days. Fruit oblate, 190-220g, pink with green shoulders. Used for market, home and forcing. **disease resistance:** Fusarium, leaf mold and tobacco mosaic virus. Cold tolerance. Cultivar. Seed.

PI 508480 to 508482-continued

PI 508481 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Pink glory. **remarks:** Plants indeterminate with good foliage cover. Maturity 55 days. Fruit flattened-globular, 190-230g, pink with light green shoulders and firm thick flesh walls. Used for market and home. **disease resistance:** Fusarium, leaf mold and tobacco mosaic virus. Heat tolerance. Cultivar. Seed.

PI 508482 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Summer best. **remarks:** Fruit flattened globe, pinkish red, weighing 210gr. Flesh meaty and firmly solid. Good for forcing as well as outdoor growing. **disease resistance:** Tobacco mosaic virus and bacterial wilt. Cold tolerance. Cultivar. Seed.

PI 508483 to 508501. *Raphanus sativus* L. BRASSICACEAE Radish

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508483 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** All season white. **remarks:** Maturity 65 days. Root white, 30cm long, weighing 650 gr. Used for cooking, pickling. **disease resistance:** Downy mildew and soft rot. Cultivar. Seed.

PI 508484 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Daebu summer. **remarks:** Maturity 60-70 days. Root green, 16-20cm long, weighing 680-820gr. Used for Kimchee and cooking. **disease resistance:** Downy mildew and virus. Cultivar. Seed.

PI 508485 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** 40 days. **remarks:** Maturity 40 days. Root white, 20cm long, weighing 500-550gr. Used for cooking. **disease resistance:** Downy mildew and soft rot. Cultivar. Seed.

PI 508486 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Greencap. **remarks:** Maturity 60 days. Root green, 24-26cm long, weighing 700-900gr. Used for cooking and pickling. **disease resistance:** Downy mildew and soft rot. Cultivar. Seed.

PI 508483 to 508501-continued

- PI 508487 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Heelahk. **remarks:** Maturity 70-75 days. Root green, 25cm long, weighing 850-950gr. Used for Kimchee and storage. **disease resistance:** Downy mildew, virus, and soft rot. Cultivar. Seed.
- PI 508488 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** H.N.cross. **remarks:** Maturity 70-80 days. Root green, 20cm long, weighing 800-900gr. Used for Kimchee and cooking. **disease resistance:** Downy mildew and soft rot. Cultivar. Seed.
- PI 508489 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** House altari. **remarks:** Maturity 70-80 days. Root green, 8-9cm long, weighing 45-55gr. Used for Chonggak and Kimchee. **disease resistance:** Virus, downy mildew and soft rot. Cultivar. Seed.
- PI 508490 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** House king. **remarks:** Maturity 70-80 days. Root light green, 21-26cm long, weighing 800-900gr. Used for Kimchee and cooking. **disease resistance:** Downy mildew and soft rot. Cultivar. Seed.
- PI 508491 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Longwhite minong. **remarks:** Maturity 55 days. Root white, 35-40cm long, weighing 900-1100gr. Used for cooking and pickling. **disease resistance:** Virus, downy mildew and soft rot. Cultivar. Seed.
- PI 508492 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Minong early. **remarks:** Maturity midseason. Flesh crispy, juicy, ice-white, and mildly sweet. **disease resistance:** Virus, downy mildew and soft rot. Cultivar. Seed.
- PI 508493 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Pink ball. **remarks:** Maturity 70 days. Root red, 7.5-8.5cm long, weighing 300-350gr. Used for cooking and storage. **disease resistance:** Virus and downy mildew. Cultivar. Seed.
- PI 508494 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Sky cross. Cultivar. Seed.

PI 508483 to 508501-continued

- PI 508495 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Tae-back. **remarks:** Maturity 70 days. Root green, 25cm long, weighing 800-900gr. Used for Kimchee, cooking and storage. **disease resistance:** Downy mildew and soft rot. Cultivar. Seed.
- PI 508496 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Tricolor. **remarks:** Maturity 70 days. Root dark green, 7-8cm long, weighing 250-350gr. Used for cooking and storage. **disease resistance:** Virus and downy mildew. Cultivar. Seed.
- PI 508497 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Autumn wonder. **remarks:** Maturity 75 days. Root green, 18-22cm long, weighing 800-900gr with medium soft, juicy flesh. Used for Kimchi and cooking. **disease resistance:** Turnip yellow mosaic virus and soft rot. Cultivar. Seed.
- PI 508498 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Early spring baby. **remarks:** Maturity 40 days. Root white, 8-10cm long, weighing 100-120gr with fine, sweet flesh texture. Used for Kimchi and cooking. Cultivar. Seed.
- PI 508499 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Late spring top. Cultivar. Seed.
- PI 508500 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Summer top. **remarks:** Maturity 70 days. Root green, 19-23cm long, weighing 700-900gr with firm flesh. Used for Kimchi and cooking. **disease resistance:** Downy mildew and soft rot. Cultivar. Seed.
- PI 508501 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Winter keeper. **remarks:** Maturity 75 days. Root green, 18-20cm long, weighing 700gr with firm flesh. Used for Kimchi and storage. **disease resistance:** Turnip yellow mosaic virus and soft rot. Cultivar. Seed.

PI 508502 to 508503. *Solanum melongena* L. SOLANACEAE Eggplant

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

PI 508502 to 508503-continued

PI 508502 **origin:** Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Black coral. **remarks:** Plants vigorous. Fruits 30cm long, thin. Artificial pollination or application of low concentration of 2,4-D desirable for indoor growing. Cold tolerance. Cultivar. Seed.

PI 508503 **origin:** Korea, Republic of. **origin institute:** Choong Ang Seed Co., Ltd., Seoul. **cultivar:** Black long early. **remarks:** Fast growing, prolific, long fruited, uniform type with glossy black-purple fruit and tender skin. Heat tolerance. Cultivar. Seed.

PI 508504. *Spinacia oleracea* L. CHENOPODIACEAE Spinach

Donated by: Kim, I. H., Korean Seed Association, Room 1014, Songnam Building, 4-1 San, Seucho-Dong, Kangram-Ku, Seoul, Republic of Korea. Received June 24, 1986.

origin: Korea, Republic of. **origin institute:** Hungnong Seed Co., Ltd., Seoul. **cultivar:** Summer green. **remarks:** Plants upright. Leaves large, wide, smooth and deeply lobed. Recommended for summer and fall planting. Heat tolerance. Cultivar. Seed.

PI 508505 to 508507. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet potato

Donated by: Shiga, T., Sweet Potato Breeding Center, Central Agr. Experiment Station, Kuriyama, Yotsuka-ido, Japan. Received November 24, 1986.

PI 508505 **origin:** Japan. **cultivar:** Kin-toli. Cultivar. Roots.

PI 508506 **origin:** Japan. **cultivar:** Koto-puki. Cultivar. Roots.

PI 508507 **origin:** Japan. **cultivar:** Yuki-musume. Cultivar. Roots.

PI 508508 to 508509. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet Potato

Donated by: Shiga, T., Sweet Potato Breeding Center, Central Agr. Experiment Station, Kuriyama, Yotsuka-ido, Japan. Received November 24, 1986.

PI 508508 **origin:** Japan. **cultivar:** Kogane-sengan. **remarks:** Giant type. Cultivar. Cutting.

PI 508508 to 508509-continued

PI 508509 **origin:** Japan. **cultivar:** Norin 2. **remarks:** Giant type.
Cultivar. Cutting.

PI 508510. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet Potato

Donated by: IBPGR, AGPG, FAO, Via delle Terme di Caracalla, 00100
Rome, Italy. Received November 24, 1986.

origin: Korea, Republic of. **cultivar:** Hongmi. Cultivar.
Roots.

PI 508511 to 508512. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet
Potato

Donated by: Lane, J.A., P.O. Box 93, Kempsey, New South Wales,
Australia. Received November 24, 1986.

PI 508511 **donor id:** H. **origin:** Australia. **pedigree:** Seedling
selection. **remarks:** Vine short. Marketable roots in 3-4
months. Roots short, blocky. Flesh very pale yellow to
white raw, cream-gold cooked. **disease resistance:** Soft
rots of roots. Breeding Material. Roots.

PI 508512 **donor id:** Mutant L8-92. **origin:** Australia. **pedigree:**
Mutant from Sweetgold (L8-92). **remarks:** Roots
pinkish-brown. Flesh pale orange. Flowers, unlike
Sweetgold, in late autumn. No seed set at grow out sites.
Breeding Material. Roots.

PI 508513. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet Potato

Donated by: CENARGEN, Brasilia, Brazil. Received November 24, 1986.

origin: Brazil. **cultivar:** Simon-1. Cultivar. Roots.

PI 508514 to 508521. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet
potato

Donated by: Bouwkamp, J.C., Department of Horticulture, University
of Maryland, College Park, Maryland, United States. **remarks:**
Received through 1979 Germplasm Team to Peoples Republic of China.
Received November 24, 1986.

PI 508514 **origin:** China, Peoples Repub of. **origin institute:**
Yantai Agricultural Institute, Yantai, Shandong Province.
cultivar: 74-637. Cultivated. Roots.

PI 508514 to 508521-continued

- PI 508515 **origin:** China, Peoples Repub of. **origin institute:** Yantai Agricultural Institute, Yantai, Shandong Province. **cultivar:** 60. Cultivated. Roots.
- PI 508516 **origin:** China, Peoples Repub of. **origin institute:** Yantai Agricultural Institute, Yantai, Shandong Province. **cultivar:** 78-2. Cultivated. Roots.
- PI 508517 **origin:** China, Peoples Repub of. **origin institute:** Yantai Agricultural Institute, Yantai, Shandong Province. **cultivar:** 205. Cultivated. Roots.
- PI 508518 **origin:** China, Peoples Repub of. **origin institute:** Yantai Agricultural Institute, Yantai, Shandong Province. **cultivar:** 224. Cultivated. Roots.
- PI 508519 **origin:** China, Peoples Repub of. **origin institute:** Yantai Agricultural Institute, Yantai, Shandong Province. **cultivar:** 750-1. Cultivated. Roots.
- PI 508520 **origin:** China, Peoples Repub of. **origin institute:** Yantai Agricultural Institute, Yantai, Shandong Province. **cultivar:** Self fertile No. 1. Cultivated. Roots.
- PI 508521 **origin:** China, Peoples Repub of. **origin institute:** Yantai Agricultural Institute, Yantai, Shandong Province. **cultivar:** Yellow sunflower. Cultivated. Roots.

PI 508522. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet potato

Donated by: Root and Tuber Improvement Program, IITA, Ibadan, Nigeria. Received November 24, 1986.

origin: Nigeria. **cultivar:** TIS 2525. Cultivar. Roots.

PI 508523. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet potato

Donated by: Prybot, J.R., Peace Corps, San Pedro La Laguna, Solola, Guatemala. Received November 24, 1986.

donor id: No. 2. **origin:** Guatemala. **cultivar:** Camote amarillo. **locality:** San Pedro La Laguna. Cultivar. Roots.

PI 508524 to 508529. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet
Potato

Donated by: Beale, A.J., Agricultural Experiment Station, University
of Puerto Rico, P.O. Box 21360, Rio Piedras, Puerto Rico. Received
November 24, 1986.

PI 508524 **donor id:** 1. **origin:** Puerto Rico. **cultivar:** Mina.
Cultivar. Cutting.

PI 508525 **donor id:** 2. **origin:** Puerto Rico. **cultivar:** Blanquita.
Cultivar. Cutting.

PI 508526 **donor id:** 21. **origin:** Puerto Rico. **cultivar:**
Miguela-21. Cultivar. Cutting.

PI 508527 **donor id:** 22. **origin:** Puerto Rico. **cultivar:** Miguela
arecibo-22. Cultivar. Cutting.

PI 508528 **donor id:** 23. **origin:** United States. **cultivar:** Gem.
Cultivar. Cutting.

PI 508529 **donor id:** 24. **origin:** Puerto Rico. **cultivar:**
Miguela-24. Cultivar. Cutting.

PI 508530 to 508534. *Ipomoea batatas* (L.) Lam. CONVOLVULACEAE Sweet
Potato

Donated by: Broome, C.R., Plant Variety Protection Office, USDA-AMS,
Beltsville, Maryland, United States. Received November 24, 1986.

PI 508530 **donor id:** 2743. **origin:** Venezuela. **local name:** Batata
blanca. **collected:** March 31, 1981. **collector:** C.R.
Broome, K.E. Clark. **collector id:** 2743. **locality:** Farm
of Luis da Silva, 4.7km NNE of San Carlos de Rio Negro,
T.F. Amazonas. **remarks:** Vine spreading. Roots white.
Flesh white. Flowers white with purple throat.
Cultivated. Roots.

PI 508531 **donor id:** 2760. **origin:** Venezuela. **local name:** Morada,
Sombica. **collected:** April 01, 1981. **collector:** C.R.
Broome, K.E. Clark. **collector id:** 2760. **locality:** Farm
of Luis da Silva, 4.7km NNE of San Carlos de Rio Negro,
T.F. Amazonas. **remarks:** Vine scrambling, red stems.
Roots bright red-purple on surface. Flesh mixed purple
and white. Flowers violet with deeper purple in base of
throat. Cultivated. Roots.

PI 508530 to 508534-continued

PI 508532 donor id: 2761. origin: Venezuela. local name: Wiripipi, Itawa. collected: April 01, 1981. collector: C.R. Broome, K.E. Clark. collector id: 2761. locality: Farm of Luis da Silva, 4.7km NNE of San Carlos de Rio Negro, T.F. Amazonas. remarks: Vine scrambling, green stems, anthocyanin only in top of petiole. Leaves green, 3-5 lobed, deep sinuses between terminal and two lateral lobes. Root pale yellow, darker yellow flesh, exudes milky juice when cut. Cultivated. Roots.

PI 508533 donor id: 2788. origin: Venezuela. local name: Batata blanco. collected: April 03, 1981. collector: C.R. Broome. collector id: 2788. locality: SE of San Carlos de Rio Negro (1.75 hour walk), T. F. Amazonas. Cultivated. Roots.

PI 508534 donor id: 2792. origin: Venezuela. local name: Batata morada. collected: April 03, 1981. collector: C.R. Broome. collector id: 2792. locality: SE of San Carlos de Rio Negro (1.75 hour walk), T. F. Amazonas. remarks: Root red-purple. Flowers pink, dark lavender in throat. Cultivated. Roots.

PI 508535. *Vernonia galamensis* (Cass.) Less. subsp. *galamensis*
ASTERACEAE

Donated by: Enti, A.A., Forestry Enterprises, P.O. Box 148, Legon, Accra, Ghana. Received May 13, 1987.

origin: Ghana. collected: April 1987. Wild. Seed.

PI 508536. *Avena nuda* L. POACEAE Naked oat

Donated by: Marshall, H.G., USDA-ARS, Dept. of Agronomy, Pennsylvania State University, 17 Tyson Building, University Park, Pennsylvania, United States. Received May 05, 1987.

donor id: PA 8196-10835. origin: United States.
pedigree: Noble*2/Nuprime. other id: XW75G 83. remarks:
Excellent post-ripe lodging resistance; kernels
hull-less. Test weight good. Breeding Material. Seed.

PI 508537 to 508550. *Avena sativa* L. POACEAE Common oat

Donated by: Marshall, H.G., USDA-ARS, Dept. of Agronomy, Pennsylvania State University, 17 Tyson Building, University Park, Pennsylvania, United States. Received May 05, 1987.

PI 508537 to 508550-continued

- PI 508537 donor id: PA 7603-7. origin: United States. pedigree: Early Pennwin selection. remarks: Maturity earlier than Pennwin. Winter hardiness equal to Pennwin. Winter Annual. Breeding Material. Seed.
- PI 508538 donor id: PA 7967-4076. origin: United States. pedigree: Astro/Stout. other id: XW74G141. remarks: Plants very short, blue-green. Maturity late. Panicles open. Kernal characteristics good. Breeding Material. Seed.
- PI 508539 donor id: PA 8196-15. origin: United States. pedigree: Otee/Mariner. other id: XW75G 78. remarks: Test weight excellent. Protein percentage high. Breeding Material. Seed.
- PI 508540 donor id: PA 8290-7. origin: United States. pedigree: James/CI 8447//Harmon. other id: XM78G109. remarks: Plants very short, early maturity. Kernel characteristics good. Breeding Material. Seed.
- PI 508541 donor id: PA 8290-3373. origin: United States. pedigree: Ed 26/Noble//NY OCI-23. other id: XV78G212. remarks: Test weight good. Kernel characteristics good. Lodging resistant. Breeding Material. Seed.
- PI 508542 donor id: PA 8290-3375. origin: United States. pedigree: Ed 26/Noble//NY OCI-23. other id: XV78G212. remarks: Test weight good. Culms very stiff. Breeding Material. Seed.
- PI 508543 donor id: PA 8290-9304. origin: United States. pedigree: Ed 26/Noble//Ogle. other id: XV78G208. remarks: Plants 10-14cm shorter than Ogle and earlier maturing. Lodging resistant. Breeding Material. Seed.
- PI 508544 donor id: PA 8393-17353. origin: United States. pedigree: Dal/Noble//Pennlo. other id: XK80G 5. remarks: Test weight good. disease resistance: Good Helminthosporium tolerance. Breeding Material. Seed.
- PI 508545 donor id: PA 8494-572. origin: United States. pedigree: NY Composite Sel.//Mapua 70/Noble. other id: XG79G182. remarks: Plants very short. Breeding Material. Seed.
- PI 508546 donor id: PA 8499-682. origin: United States. pedigree: Ed 23/Noble. other id: XW74G 46. remarks: Flag leaf very large. Culms very stiff with good lodging resistance. Breeding Material. Seed.

PI 508537 to 508550-continued

PI 508547 donor id: PA 8494-2600. origin: United States.
pedigree: Mapua 70/NB//Ed 26/PI 355001. other id:
XM79G129. remarks: Excellent kernel, stiff. Breeding
Material. Seed.

PI 508548 donor id: PA 7967-6689. origin: United States.
pedigree: Ed 26/Noble. other id: XW 74G 85. Breeding
Material. Seed.

PI 508549 donor id: PA 8494-6700. origin: United States.
pedigree: Ed 23/Otee//Pennlo. other id: XK80G149.
remarks: Compact panicle. Breeding Material. Seed.

PI 508550 donor id: PA 8494-7921. origin: United States.
pedigree: Elf//Ed 26/Noble. other id: XK79G261.
Breeding Material. Seed.

PI 508551. *Atriplex canescens* (Pursh) Nutt. CHENOPODIACEAE

Donated by: Tucson Plant Materials Center, USDA-SCS, 3241 N. Romero Rd., Tucson, Arizona, United States. remarks: Received through National Plant Materials Center, Beltsville, Maryland. Received January 30, 1987.

donor id: 9003553. origin: United States. cultivar: Santa Rita. collected: 1962. collector: S.C. Martin. other id: P-15644. other id: A-16805. other id: BN-15412. locality: Desert range, Pima County, Arizona. elevation: 945m. remarks: Selected from wild collections for best overall growth rate, leafiness, and ability to provide cover. Primary uses critical area stabilization, shelterbelt plantings, range improvement and wildlife food and cover. Adapted to soils ranging in texture from sandy loams to clay loams. Drought tolerance. Salt tolerance. Perennial. Cultivar. Seed.

PI 508552. *Hordeum vulgare* L. POACEAE Barley

Donated by: Tucson Plant Materials Center, USDA-SCS, 3241 N. Romero Rd., Tucson, Arizona, United States. remarks: Received through National Plant Materials Center, Beltsville Maryland. Cooperative release by USDA-SCS, USDA-ARS and the Univ. of Arizona. Received January 30, 1987.

PI 508552-continued

donor id: 9047432. **origin:** United States. **cultivar:** Seco. **pedigree:** Selection from Composite Cross No. 39. **other id:** Univ. of AZ 2-22-1. **group:** NPMC. **other id:** T47432. **group:** NPMC. **remarks:** Selected by R.T. Ramage, USDA-ARS for high vigor, height, root spread and yield on dryland plantings in Arizona and Calif. Six-row type. Primary use for critical area stabilization, winter cover, green manure and wildlife food where irrigation water is limiting. Drought tolerance. Salt tolerance. Spring Annual. Cultivar. Seed.

PI 508553. *Salix fluviatilis* Nutt. SALICACEAE

Donated by: Corvallis Plant Materials Center, USDA-SCS, 3420 NE Granger, Corvallis, Oregon, United States. **remarks:** Received through National Plant Materials Center, Beltsville, Maryland. Received January 30, 1987.

donor id: 9019469. **origin:** United States. **cultivar:** Multnomah. **collected:** June 1980. **collector:** Jack Carlson and Jack Peterson. **locality:** Along I-84, exit 18 on the east bank of Sandy River. Oregon. **remarks:** Selected from wild collections for overall superiority in growth rate and form. Species threatened in lower Columbia River drainage. Primary use for steambank stabilization along low velocity flow rivers. Area of adaptation is restricted to MLRA's 2 and 3 west of Cascade Mountains. Cultivar. Plant.

PI 508554. *Salix hookeriana* J. Barratt SALICACEAE

Donated by: Corvallis Plant Materials Center, USDA-SCS, 3420 NE Granger, Corvallis, Oregon, United States. **remarks:** Received through National Plant Materials Center, Beltsville, Maryland. Received January 30, 1987.

donor id: 9004737. **origin:** United States. **cultivar:** Catsop. **collected:** 1978. **collector:** D. Leach and W. Freland. **locality:** Sandy soil, high precipitation (2032mm), along a coastal lake near Astoria, Oregon. **remarks:** Selected from wild collection best growth habit, superior branching, and leaf characteristics. Primary use for steambank stabilization of low velocity streams in coastal areas. Adapted to poorly drained to well drained soils in MLRA's 1-5 west of Cascade Mountains. Cultivar. Seed.

PI 508555. *Salix lasiandra* Benth. SALICACEAE Pacific willow

Donated by: Corvallis Plant Materials Center, USDA-SCS, 3420 NE Granger, Corvallis, Oregon, United States. **remarks:** Received through National Plant Material Center, Beltsville, Maryland. Received January 30, 1987.

donor id: 9004814. **origin:** United States. **cultivar:** Nehalem. **collected:** March 1978. **collector:** Ray Wilson and Winn. **locality:** Silt loam soil with 1270mm precipitation along Nehalem River, Columbia County, MLRA 2 (Sec. 27, T5N, R4W). **remarks:** Selected from wild collection for best growth habit, branching and leafiness. Primary use for streambank stabilization along streams of low velocity. Adapted to poorly drained to well drained soils in MLRA's 1-5 west of Cascade Mountains in Oregon, Washington and Northern Calif. Cultivar. Seed.

PI 508556. *Salix rigida* Muhlenb. SALICACEAE

Donated by: Corvallis Plant Materials Center, USDA-SCS, 3420 NE Granger, Corvallis, Oregon, United States. **remarks:** Received through National Plant Materials Center, Beltsville, Maryland. Received January 30, 1987.

donor id: 9004765. **origin:** United States. **cultivar:** Placer. **collected:** February 1978. **collector:** Negroni and Mathison. **locality:** Steambank in MLRA 18 (Sec. 18, T12N, R8E) near Auburn, California. **remarks:** Selected from wild collections for rapid growth, high stem density at ground level. Primary use for streambank stabilization along rivers of low flow velocity. Adapted to poorly drained to well drained soils in MLRA's 1-5,15,18,22 in the Pacific W. Washington, Oregon & N. California. Disease resistance. Cultivar. Seed.

PI 508557. *Salix scouleriana* J. Barratt ex Hook. SALICACEAE

Donated by: Corvallis Plant Materials Center, USDA-SCS, 3420 NE Granger, Corvallis, Oregon, United States. **remarks:** Received through National Plant Materials Center, Beltsville, Maryland. Received January 30, 1987.

PI 508557-continued

donor id: 9004818. origin: United States. cultivar: Rogue. collected: March 1978. collector: Roy Carlson. locality: Sandy soil with 2286mm precipitation along Two Mile Creek (sec. 19, T34S, R11W), Curry County, Oregon. remarks: Selected from wild collections for uniformity of growth habits, branching and leafiness. Primary use for streambank stabilization along low velocity streams. Adapted to poorly drained to well drained soils in MLRA's 1-5 west of the Cascade Mts. in Oregon, Washington and Northern California. Disease resistance. Cultivar. Seed.

PI 508558. *Salix sitchensis* Sanson SALICACEAE Sitka willow

Donated by: Corvallis Plant Materials Center, USDA-SCS, 3420 NE Granger, Corvallis, Oregon, United States. remarks: Received through National Plant Materials Center, Beltsville, Maryland. Received January 30, 1987.

donor id: 9004795. origin: United States. cultivar: Plumas. collected: February 1978. locality: Rainfall zone of 508mm near Susanville (MLRA 21), California. remarks: Selected from wild collections for rapid, disease-free growth habit. Primary use for streambank stabilization of low velocity streams. Adapted to poorly drained to well drained soils in inland areas of MLRA's 1-5 west of the Cascade Mts. in Oregon, Washington and Northern California. Disease resistance. Cultivar. Seed.

PI 508559 to 508560. *Adesmia* sp. FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508559 donor id: 77. origin: Brazil. collected: January 15, 1979. collector: B.L. Burson. collector id: 77. locality: East, 2km of Bom Jargin da Serra, Santa Catarina. remarks: Stems about 1.5m long. Wild. Seed.

PI 508560 donor id: 84. origin: Brazil. collected: January 15, 1979. collector: B.L. Burson. collector id: 84. locality: East, 7km of Bom Jargin da Serra, Santa Catarina. remarks: Shrub to 0.5m tall. Flowers yellow. Wild. Seed.

PI 508561. *Agropyron* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 546. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 546. **locality:** Route 2, 12km S of Chascomus, Buenos Aires Province. **remarks:** Plants erect, bunch type. Leaves 0.3m long. Inflorescences to 1.2m. Spikelets with 5 to 6 florets. Wild. Seed.

PI 508562. *Andropogon lateralis* var. *incanus* (Hack.) Henr. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 209. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 209. **locality:** BR 290, 23km W of Rosario do Sul, Rio Grande do Sul. **remarks:** Plants tall, bunch type. Leaves 0.9 to 1.2m long. Inflorescences to 2.1m. Wild. Seed.

PI 508563. *Andropogon* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 572. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 572. **locality:** Route 34, 2km SE of Icano, Santiago del Estero Province. **remarks:** Bunch type. Leaves 0.3 to .38m long. Inflorescences to 0.9m, purple. Wild. Seed.

PI 508564. *Axonopus ramboi* G.A.Black POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508564-continued

donor id: 79. **origin:** Brazil. **collected:** January 15, 1979. **collector:** B.L. Burson. **collector id:** 79.
locality: Edge of high cliff, 10km E of Bom Jargin da Serra, Serra do Rio do Rastro, Santo Catarina. **remarks:** Bunch type. Leaves 0.5m long. Inflorescences to 0.9m tall. Wild. Seed.

PI 508565 to 508566. *Axonopus* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508565 **donor id:** 39. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 39.
locality: Route BR 116, 2km N of Vacaria, Rio Grande do Sul. **remarks:** Suffulti series. Bunch type. Leaves narrow, 0.9m long, bright green. Inflorescences to 0.9m tall. Wild. Seed.

PI 508566 **donor id:** 632. **origin:** Bolivia. **collected:** February 23, 1979. **collector:** B.L. Burson. **collector id:** 632.
locality: West, 22km of Tarija, Tarija Department. **remarks:** Plants tall, robust. Leaves 0.5m long. Inflorescences to 1.2m. Wild. Seed.

PI 508567. *Bouteloua curtipendula* (Michx.) Torr. POACEAE Side-oats grama

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 258. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 258.
locality: Rocky hillside, 8km N of Villa Callos Pas, Cordoba Province. **remarks:** Plants erect. Leaves 0.3m long. Inflorescences 0.6m tall. Wild. Seed.

PI 508568 to 508569. *Bouteloua* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508568 to 508569-continued

PI 508568 donor id: 264. origin: Argentina. collected: January 28, 1979. collector: B.L. Burson. collector id: 264. locality: East, 18km of Cosquin, Cordoba Province. remarks: Plants erect, 0.8m tall. Leaves 0.4m long. Wild. Seed.

PI 508569 donor id: 644. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 644. locality: Rocky soil, 1.0km E of Tarija, Tarija Department. remarks: Bunch type. Leaves 20cm long. Inflorescences 0.4m tall. Wild. Seed.

PI 508570 to 508572. *Brachiaria* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508570 donor id: 568. origin: Argentina. collected: February 19, 1979. collector: B.L. Burson. collector id: 568. locality: West side of Ceres, Santa Fe Province. remarks: Plants leafy, to 0.5m tall. Leaves pubescent, 0.3 to 0.5m long. Wild. Seed.

PI 508571 donor id: 595. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 595. locality: Route 9, 13km N of Tucuman. remarks: Plants spreading, leafy. Leaves 0.6m long. Inflorescences to 0.8m tall. Wild. Seed.

PI 508572 donor id: 665. origin: Bolivia. collected: February 25, 1979. collector: B.L. Burson. collector id: 665. locality: East, 46km of Palos Blancos, Tarija Department. remarks: Plants erect, bunch type. Leaves broad, 0.3m long. Inflorescences 0.5m tall. Wild. Seed.

PI 508573 to 508574. *Chloris distichophylla* Lag. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508573 donor id: 25. origin: Brazil. collected: January 13, 1979. collector: B.L. Burson. collector id: 25. locality: Route BR 116, 3km S of Caxais do Sul, Rio Grande do Sul. remarks: Plants erect. Leaves 0.3m long, base flat. Inflorescences 0.9m tall. Wild. Seed.

PI 508573 to 508574-continued

PI 508574 **donor id:** 41. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 41.
locality: Route BR 116, Pelotia (Uruguay) river, Rio Grande do Sul. **remarks:** Bunch type. Leaves 0.3m long, base flat. Inflorescences 0.9m tall. Wild. Seed.

PI 508575. *Chloris pycnothrix* Trin. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 47. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 47.
locality: Route BR 116, Pelotia (Uruguay) river, Rio Grande do Sul. **remarks:** Plants low, spreading with short stolons. Leaves flat to ground. Inflorescences 13cm tall. Wild. Seed.

PI 508576 to 508581. *Chloris* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508576 **donor id:** 247. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 247.
locality: Villa Nueva, 3km S of Villa Maria, Cordoba Province. **remarks:** Plants erect. Leaves 0.5m long. Inflorescences 0.9m tall. Wild. Seed.

PI 508577 **donor id:** 261. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 261.
locality: North, 10km of Villa Callos Pas, Cordoba Province. **remarks:** Plants erect, tall. Leaves 0.6m long. Inflorescences 1.8m tall. Wild. Seed.

PI 508578 **donor id:** 566. **origin:** Argentina. **collected:** February 18, 1979. **collector:** B.L. Burson. **collector id:** 566.
locality: Route 34, 40km NW of Rafdela, Santa Fe Province. **remarks:** Plants robust, bunch type. Leaves 0.9m long. Inflorescences 1.2m tall. Wild. Seed.

PI 508576 to 508581-continued

- PI 508579 **donor id:** 567. **origin:** Argentina. **collected:** February 18, 1979. **collector:** B.L. Burson. **collector id:** 567. **locality:** Route 34, 40km NW of Rafdela, Santa Fe Province. **remarks:** Plants small, bunch type. Leaves blue-green, 0.45m long. Inflorescences 0.75m high. Wild. Seed.
- PI 508580 **donor id:** 573. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 573. **locality:** East of Garza, at intersection of Routes 27 & 34, Santiago del Estero Province. **remarks:** Plants bunch type. Leaves 0.3m long. Inflorescences 0.6 to 0.9m tall. Wild. Seed.
- PI 508581 **donor id:** 578. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 578. **locality:** Route 34, 60km NW of Santiago del Estero, Santiago del Estero Province. **remarks:** Bunchgrass with leafy base. Leaves 0.6m long. Inflorescences 1.1m tall. Wild. Seed.

PI 508582 to 508583. *Crotalaria* sp. FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508582 **donor id:** 663. **origin:** Bolivia. **collected:** February 24, 1979. **collector:** B.L. Burson. **collector id:** 663. **locality:** West, 19km from Entre Rios, Tarija Department. **remarks:** Plants bushy, 1.0 to 1.2m tall. Wild. Seed.
- PI 508583 **donor id:** 679. **origin:** Bolivia. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 679. **locality:** East, 44km of Boyiube, Tarija Department. **remarks:** Plants spreading, pods 2.54 to 3.81cm long, leaves small, flowers yellow. Wild. Seed.

PI 508584 to 508587. *Desmodium incanum* DC. FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508584 to 508587-continued

- PI 508584 **donor id:** 45. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 45. **locality:** Route BR 116, Pelotis (Uruguay) river, Rio Grande do Sul. **remarks:** Plants leafy, 0.3m tall. Flowers violet blue. Wild. Seed.
- PI 508585 **donor id:** 105. **origin:** Brazil. **collected:** January 16, 1979. **collector:** B.L. Burson. **collector id:** 105. **locality:** Route BR 116, 58km N of Lages, Santa Catarina. **remarks:** Plants leafy, 0.2m tall. Flowers violet. Wild. Seed.
- PI 508586 **donor id:** 118. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 118. **locality:** Agronomy farm, Ponto Grasso, Parana. **remarks:** Plants small, low-growing, 0.3m tall. Wild. Seed.
- PI 508587 **donor id:** 206. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 206. **locality:** BR 290, 35km W of Sao Gabriel, Rio Grande do Sul. **remarks:** Plants spreading, 0.3m tall. Flowers yellow. Wild. Seed.

PI 508588 to 508596. *Desmodium* sp. FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508588 **donor id:** 49. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 49. **locality:** Route BR 116, 6km N of Pelotis river (Uruguay), Santa Catarina. **remarks:** Shrub, 0.6m tall, leafy. Flowers violet-blue. Wild. Seed.
- PI 508589 **donor id:** 58. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 58. **locality:** Route BR 116, 6km N of Pelotis river (Uruguay), Santa Catarina. **remarks:** Shrub erect, 0.5m tall. Flowers purple. Wild. Seed.
- PI 508590 **donor id:** 93. **origin:** Brazil. **collected:** January 16, 1979. **collector:** B.L. Burson. **collector id:** 93. **other id:** Valls 4491. **locality:** West, 30km of Sao Joaquim, Santa Catarina. **remarks:** Plants erect, 0.6m tall. Wild. Seed.

PI 508588 to 508596-continued

- PI 508591 donor id: 254. origin: Argentina. collected: January 27, 1979. collector: B.L. Burson. collector id: 254. locality: Rio Segundo, 39km SE of Cordoba on Route 9. remarks: Plants tall, 1.8m, with single stem. Flowers blue-violet. Wild. Seed.
- PI 508592 donor id: 358. origin: Argentina. collected: February 05, 1979. collector: B.L. Burson. collector id: 358. locality: Ao El Palmar, 70km N of Colon, Entre Rios Province. remarks: Plants spreading, 0.2m tall. Wild. Seed.
- PI 508593 donor id: 467. origin: Argentina. collected: February 11, 1979. collector: B.L. Burson. collector id: 467. locality: Near Rio Mirinay on Route 126, east of Curuzu Cuatia, Corrientes Province. remarks: Plants spreading, 0.2m tall. Flowers violet-blue. Wild. Seed.
- PI 508594 donor id: 589. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 589. locality: On road from San Javier, 25km W of Tucuman. remarks: Plants small, leafy, slightly spreading, 0.2m tall. Wild. Seed.
- PI 508595 donor id: 654. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 654. locality: West, 43km from Entre Rios, Tarija Department. remarks: Plants vigorous, spreading. Flowers purple. Wild. Seed.
- PI 508596 donor id: 675. origin: Bolivia. collected: February 25, 1979. collector: B.L. Burson. collector id: 675. locality: North, 83km of Villa Montes, Tarija Department. remarks: Plants small vine. Flowers violet. Wild. Seed.

PI 508597. *Desmodium uncinatum* (Jacq.) DC. FABACEAE Spanish tickclover

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 42. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 42. locality: Route BR 116, Pelotis River (Uruguay), Rio Grande do Sul. remarks: Plants spreading, 0.3 to 0.6m tall. Flowers yellow-white. Wild. Seed.

PI 508598. *Digitaria californica* (Benth.) Henr. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 575. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 575. **locality:** North, 50km of Villa Montes, Tarija Department. **remarks:** Plants low growing. Leaves 15-20cm long. Inflorescences 30cm high. Wild. Seed.

PI 508599 to 508601. *Digitaria* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508599 **donor id:** 579. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 579. **locality:** Route 34, 60km NW of Santiago del Estero, Santiago del Estero Province. **remarks:** Plants large, robust, bunch type with leafy base. Leaves 1.2m long. Inflorescences 1.5m high. Wild. Seed.

PI 508600 **donor id:** 596. **origin:** Argentina. **collected:** February 20, 1979. **collector:** B.L. Burson. **collector id:** 596. **locality:** Route 9, 13km N of Tucuman. **remarks:** Plants leafy, bunch type, good appearance. Leaves 75cm long. Inflorescences 1.2-1.5m high. Wild. Seed.

PI 508601 **donor id:** 668. **origin:** Bolivia. **collected:** February 25, 1979. **collector:** B.L. Burson. **collector id:** 668. **locality:** North, 32km of Villa Montes, Tarija Department. **remarks:** Plants tall, robust, bunch type. Leaves 0.9m long. Inflorescences 1.8-2.1m high. Wild. Seed.

PI 508602. *Eragrostis* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 580. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 580. **locality:** Route 34, 60km NW of Santiago del Estero, Santiago del Estero Province. **remarks:** Plants small. Leaves 10cm long. Inflorescences 20-25cm high. Wild. Seed.

PI 508603 to 508605. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508603 **donor id:** 238. **origin:** Argentina. **collected:** January 26, 1979. **collector:** B.L. Burson. **collector id:** 238. **locality:** Junction of Routes 8 and 94, 38km SW of Melincue, Santa Fe Province. **remarks:** Plants robust, leafy. Leaves 0.5m long. Inflorescences 0.9m tall. Wild. Seed.

PI 508604 **donor id:** 536. **origin:** Argentina. **collected:** February 16, 1979. **collector:** B.L. Burson. **collector id:** 536. **locality:** South of Buenos Aires, 67km marker, on Route 2. **remarks:** Plants erect, bunchy type, under very dry conditions. Leaves 0.3 to 0.5m long. Inflorescences 0.9 to 1.1m tall. Wild. Seed.

PI 508605 **donor id:** 556. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 556. **locality:** Route 41, 1 km W of General Belgrano, Buenos Aires Province. **remarks:** Plants erect, robust, under dry conditions. Leaves 0.3 to 0.5m long. Inflorescences 0.75m tall. Wild. Seed.

PI 508606 to 508607. *Hemarthria altissima* (Poir.) Stapf & C. E. Hubb. POACEAE Limpgrass

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508606 **donor id:** 385. **origin:** Argentina. **collected:** February 07, 1979. **collector:** B.L. Burson. **collector id:** 385. **locality:** INTA Experiment Station near Mercedes, Corrientes Province. **remarks:** Plants about 0.9m tall with few stolons. Wild. Seed.

PI 508607 **donor id:** 393. **origin:** Argentina. **collected:** February 07, 1979. **collector:** B.L. Burson. **collector id:** 393. **locality:** On Route 12 at Ao Ambrosio, 77km N of Routes 12 and 27 intersection, Corrientes Province. **remarks:** Plants upright, spreading, short stolons. Inflorescences 0.9m tall. Wild. Seed.

PI 508608. *Hemarthria* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 217. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 217.
locality: West of Porto Alegre at 460km marker on BR 290, about 20km east of Alegrete, Rio Grande do Sul. **remarks:** Plants tall, robust, bunch type. Leaves 0.9m long. Inflorescences 2.1m tall. Wild. Seed.

PI 508609 to 508610. *Indigofera* sp. FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508609 **donor id:** 574. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 574.
locality: Route 34, 60km NW of Santiago del Estero, Santiago del Estero Province. **remarks:** Plants spreading vine. Leaves small, numerous. Flowers small, red. Wild. Seed.

PI 508610 **donor id:** 602. **origin:** Argentina. **collected:** February 20, 1979. **collector:** B.L. Burson. **collector id:** 602.
locality: North, 40km of Tucuman on Route 9. **remarks:** Plants small and spreading. Flowers small, red. Wild. Seed.

PI 508611 to 508612. *Lotus corniculatus* L. FABACEAE Birdsfoot trefoil

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508611 **donor id:** 193. **origin:** Brazil. **collected:** January 22, 1979. **collector:** B.L. Burson. **collector id:** 193.
locality: Route BR 290, 89.5km W of Porto Alegre, Rio Grande do Sul. **remarks:** Plants upright about 20cm tall. Flowers yellow. Wild. Seed.

PI 508612 **donor id:** 537. **origin:** Argentina. **collected:** February 16, 1979. **collector:** B.L. Burson. **collector id:** 537.
locality: South of Buenos Aires, 67km marker, on Route 2. **remarks:** Plants low growing, spreading. Flowers and leaves 7.6 to 20cm tall. Flowers yellow. Wild. Seed.

PI 508613. *Lupinus multiflorus* Desr. FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 210. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 210.
locality: Route BR 290, 23km W of Rosario do Sul, Rio Grande do Sul. **remarks:** Plant dead but upright in habit, about 0.75m tall. Seed pods intact. Annual. Wild. Seed.

PI 508614. *Lupinus* sp. FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 639. **origin:** Bolivia. **collected:** February 23, 1979. **collector:** B.L. Burson. **collector id:** 639.
locality: West, 31km of Tarija, Tarija Department.
remarks: Plants large, 0.5m tall. Flowers blue. Wild. Seed.

PI 508615 to 508618. *Melilotus alba* Medikus FABACEAE White sweetclover

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508615 **donor id:** 244. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 244.
locality: Route 8 at 489km marker, W of Buenos Aires.
remarks: Plants upright, 1.5m tall, leafy. Flowers white.
received as: *M. albus*. Wild. Seed.

PI 508616 **donor id:** 274. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 274.
locality: North, 7km of El Tio, Cordoba Province.
remarks: Plants about 1.8m tall, leafy. Flowers numerous, white. **received as:** *M. albus*. Wild. Seed.

PI 508617 **donor id:** 562. **origin:** Argentina. **collected:** February 18, 1979. **collector:** B.L. Burson. **collector id:** 562.
locality: Along freeway, 65km S of Santa Fe, Santa Fe Province. **remarks:** Plants about 1.5m tall, not too stemy. Flowers white. Wild. Seed.

PI 508615 to 508618-continued

PI 508618 **donor id:** 570. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 570. **locality:** Dry area, Route 34, 87km W of Ceres, Santa Fe Province. **remarks:** Plants 1.2 to 1.5m tall. Flowers white. Wild. Seed.

PI 508619. *Macroptilium atropurpureum* (Mocino & Sesse ex DC.) Urban
FABACEAE Siratro

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 106. **origin:** Brazil. **collected:** January 16, 1979. **collector:** B.L. Burson. **collector id:** 106. **locality:** Route BR 116, 58km N of Lages, Santa Catarina. **remarks:** Plants low growing vine. Flowers wine colored. Wild. Seed.

PI 508620. *Panicum maximum* Jacq. POACEAE Guineagrass

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 593. **origin:** Argentina. **collected:** February 20, 1979. **collector:** B.L. Burson. **collector id:** 593. **locality:** Route 9, 13km N of Tucuman. **remarks:** Plants tall, robust, leafy. Leaves broad, 1.5m long. Inflorescences 1.8 to 2.1m high. Wild. Seed.

PI 508621 to 508622. *Paspalidium paludivagum* (Hitchc. & Chase) Parodi
POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508621 **donor id:** 541. **origin:** Argentina. **collected:** February 16, 1979. **collector:** B.L. Burson. **collector id:** 541. **locality:** Route 2, 68km S of La Plata. **remarks:** Plants spreading, stoloniferous, leafy. Leaves and inflorescences 30 to 37cm high. Seeds few. Wild. Seed.

PI 508621 to 508622-continued

PI 508622 **donor id:** 548. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 548. **locality:** Route 57 at Rio Salado, 16km SW of M.J. Cobo, Buenos Aires Province. **remarks:** Plants spreading, stoloniferous. Leaves 20 to 25cm long. Inflorescences 25cm high. Wild. Seed.

PI 508623 to 508634. *Paspalum alnum* Chase POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508623 **donor id:** 369. **origin:** Argentina. **collected:** February 06, 1979. **collector:** B.L. Burson. **collector id:** 369. **locality:** Grazed pasture along Route 14, 12km N of Federacion, Entre Rios Province. **remarks:** Plants small. Leaves on ground. Inflorescences 10 to 15cm high. Spikelets long. Wild. Seed.

PI 508624 **donor id:** 381. **origin:** Argentina. **collected:** February 07, 1979. **collector:** B.L. Burson. **collector id:** 381. **locality:** INTA Experiment Station near Mercedes, Corrientes Province. **remarks:** Plants low growing. Leaves almost flat to ground. Inflorescences conjugated, 7 to 12cm high. Sample bulk of several plants. Wild. Seed.

PI 508625 **donor id:** 382. **origin:** Argentina. **collected:** February 07, 1979. **collector:** B.L. Burson. **collector id:** 382. **locality:** INTA Experiment Station near Mercedes, Corrientes Province. **remarks:** Plant similar to PI 508624. Wild. Seed.

PI 508626 **donor id:** 383. **origin:** Argentina. **collected:** February 07, 1979. **collector:** B.L. Burson. **collector id:** 383. **locality:** INTA Experiment Station near Mercedes, Corrientes Province. **remarks:** Plant similar to PI 508624. Wild. Seed.

PI 508627 **donor id:** 384. **origin:** Argentina. **collected:** February 07, 1979. **collector:** B.L. Burson. **collector id:** 384. **locality:** INTA Experiment Station near Mercedes, Corrientes Province. **remarks:** Plant similar to PI 508624. Wild. Seed.

PI 508628 **donor id:** 386. **origin:** Argentina. **collected:** February 07, 1979. **collector:** B.L. Burson. **collector id:** 386. **locality:** INTA Experiment Station near Mercedes, Corrientes Province. **remarks:** Plant similar to PI 508624. Wild. Seed.

PI 508623 to 508634-continued

- PI 508629 donor id: 462. origin: Argentina. collected: February 11, 1979. collector: B.L. Burson. collector id: 462. locality: Route 129, 81km SW of Santo Tome, Corrientes Province. remarks: Plants small, low-growing. Leaves 7.5cm long. Inflorescences 20 to 25cm high. Wild. Seed.
- PI 508630 donor id: 463. origin: Argentina. collected: February 11, 1979. collector: B.L. Burson. collector id: 463. locality: Route 129, 81km SW of Santo Tome, Corrientes Province. remarks: Plants upright, dark green. Leaves 15 to 20cm long. Inflorescences 30cm high. Wild. Seed.
- PI 508631 donor id: 466. origin: Argentina. collected: February 11, 1979. collector: B.L. Burson. collector id: 466. locality: Rio Mirianay on Route 23, E of Mercedes, Corrientes Province. remarks: Plants large. Leaves flat on ground covering a 0.3 to 0.38m area. Inflorescences 20 to 25cm tall. Wild. Seed.
- PI 508632 donor id: 469. origin: Argentina. collected: February 11, 1979. collector: B.L. Burson. collector id: 469. locality: Grazed area along Route 126, 8km E of Curuzu Cuatia, Corrientes Province. remarks: Plants small. Leaves 5 to 8cm long. Inflorescences 10 to 15cm high. Wild. Seed.
- PI 508633 donor id: 688. origin: Argentina. collected: June 04, 1979. collector: B.L. Burson. collector id: 688. other id: Quarin 440. locality: INTA Experiment Station near Mercedes, Corrientes Province. remarks: Plants semi-prostrate, about 30cm tall. Wild. Seed.
- PI 508634 donor id: 689. origin: Argentina. collected: June 04, 1979. collector: B.L. Burson. collector id: 689. other id: Quarin No. 428. locality: Southwest 10km of Ibera Lake, Corrientes Province. remarks: Plants vigorous with 3 to 7 racemes, 0.3 to 0.45m tall. Wild. Seed.

PI 508635 to 508637. *Paspalum brunneum* Mez ex Ekman POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508635 donor id: 190. origin: Brazil. collected: January 22, 1979. collector: B.L. Burson. collector id: 190. locality: South side of highway, Agronomy Experimental Farm, Guaiba, 50km W of Porto Alegre, Rio Grande do Sul. remarks: Plants bunch type, grazed. Inflorescences 1.5m high. Wild. Seed.

PI 508635 to 508637-continued

- PI 508636 donor id: 414. origin: Argentina. collected: February 08, 1979. collector: B.L. Burson. collector id: 414. locality: Route 12, 13km E of Ituzaingo, Corrientes Province. remarks: Plants erect. Leaves narrow, 0.5m long. Inflorescences 1.5 to 1.8m high. Wild. Seed.
- PI 508637 donor id: 451. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 451. locality: Cemetery along Route 1, 29km S of Posalás, Misiones Province. remarks: Plants had been clipped. Leaves coarse, 0.3m long, bluegreen with purplish tinge. Inflorescences 0.9m high. Wild. Seed.

PI 508638 to 508642. *Paspalum cerasia* (Kuntze) Chase POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508638 donor id: 649. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 649. locality: West 43km of Entre Rios, Tarija Department. remarks: Plants small bunch type with short rhizomes. Leaves 15 to 25cm long. Rachis broad, red-brown. Spikelets pubescent, white. Inflorescences 50 to 60cm high. Wild. Seed.
- PI 508639 donor id: 650. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 650. locality: West 43km of Entre Rios, Tarija Department. remarks: Similar to but different population than PI 508638. Wild. Seed.
- PI 508640 donor id: 652. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 652. locality: West 43km of Entre Rios, Tarija Department. remarks: Similar to but different population than PI 508638. Wild. Seed.
- PI 508641 donor id: 656. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 656. locality: West 26km of Entre Rios, Tarija Department. remarks: Plants small, bunch type. Leaves 15 to 25cm long. Rachis broad, red-brown. Spikelets white. Inflorescences 40 to 50cm high. Wild. Seed.

PI 508638 to 508642-continued

PI 508642 donor id: 657. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 657. locality: West 19km of Entre Rios, Tarija Department. remarks: Plants small about 40 to 50cm tall, bunch type. Rachis broad, red-brown. Wild. Seed.

PI 508643 to 508653. Paspalum commune Lillo POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508643 donor id: 585. origin: Argentina. collected: February 19, 1979. collector: B.L. Burson. collector id: 585. locality: Route 9, 30km E of Tucuman, Tucuman Province. remarks: Plants erect, bunch type. Leaves broad, 30 to 50cm long. Inflorescences 90cm high. Anthers yellow. Stigmas purple. Wild. Seed.

PI 508644 donor id: 586. origin: Argentina. collected: February 19, 1979. collector: B.L. Burson. collector id: 586. locality: Route 9, 30km E of Tucuman, Tucuman Province. remarks: Plants leafier than PI 508643, different population. Leaves 0.6m long. Inflorescences 1.0m high. Wild. Seed.

PI 508645 donor id: 587. origin: Argentina. collected: February 19, 1979. collector: B.L. Burson. collector id: 587. locality: Route 9, 6km E of Tucuman, Tucuman Province. remarks: Plants large form, bunch type. Leaves 0.9 to 1.0m long. Inflorescences 1.5 to 1.8m high. Wild. Seed.

PI 508646 donor id: 590. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 590. locality: On road from San Javier, 25km W of Tucuman, Tucuman Province. remarks: Plants bunch type. Leaves broad, 0.6m long. Inflorescences 1.5m high. Wild. Seed.

PI 508647 donor id: 592. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 592. locality: West, 30km of Tucuman, Tucuman Province. remarks: Plants large, robust, open center. Leaves very broad, 1.5m long. Inflorescences 2.1 to 2.4m high. Wild. Seed.

PI 508648 donor id: 597. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 597. locality: Route 9, 13km N of Tucuman, Tucuman Province. remarks: Plants intermediate, bunch type. Leaves 0.6m long. Inflorescences 1.2m high. Wild. Seed.

PI 508643 to 508653-continued

- PI 508649 donor id: 598. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 598. locality: Route 9, 13km N of Tucuman, Tucuman Province. remarks: Plants large, robust. Leaves very broad, 0.6m long. Inflorescences 1.5m high. Wild. Seed.
- PI 508650 donor id: 606. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 606. locality: Rosario de la Frontera, Saha Province. remarks: Leaves broad, 0.75m long. Inflorescences 1.2 to 1.5m high. Wild. Seed.
- PI 508651 donor id: 620. origin: Argentina. collected: February 21, 1979. collector: B.L. Burson. collector id: 620. locality: Route 9, 6km NW of Salta, Salta Province. remarks: Plants small form. Leaves 0.5m long. Inflorescences 0.75m high. Spikelets tall, round. Wild. Seed.
- PI 508652 donor id: 633. origin: Bolivia. collected: February 23, 1979. collector: B.L. Burson. collector id: 633. locality: West edge of Tarija, Tarija Department. remarks: Plants large, bunch type. Leaves 0.6m long. Inflorescences 1.2m high. Wild. Seed.
- PI 508653 donor id: 643. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 643. locality: In front of bus station, Tarija, Tarija Department. remarks: Plants large, robust, leafy. Wild. Seed.

PI 508654 to 508659. *Paspalum compressum* Raf. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508654 donor id: 394. origin: Argentina. collected: February 08, 1979. collector: B.L. Burson. collector id: 394. locality: Beside the Parana River in Corrientes, Corrientes Province. remarks: Plants bunch type, bluegreen in color with purple base. Leaves broad, 60cm long. Inflorescences 120cm high. Wild. Seed.
- PI 508655 donor id: 397. origin: Argentina. collected: February 08, 1979. collector: B.L. Burson. collector id: 397. locality: Beside the Parana River in front of Adm. General de Puertos Club, Corrientes, Corrientes Province. remarks: Plants large, robust, base purple. Leaves 1.5m long, bluegreen. Inflorescences 2.1m high. Wild. Seed.

PI 508654 to 508659-continued

- PI 508656 **donor id:** 426. **origin:** Argentina. **collected:** February 08, 1979. **collector:** B.L. Burson. **collector id:** 426. **locality:** Route 12, 113km N of Posadas, Misiones Province. **remarks:** Plants upright, leafy form. Leaves 0.9m long. Inflorescences 1.2m high. Wild. Seed.
- PI 508657 **donor id:** 431. **origin:** Argentina. **collected:** February 09, 1979. **collector:** B.L. Burson. **collector id:** 431. **locality:** Beside Parana River in Puerto Rico, Misiones Province. **remarks:** Plants large, robust, bluegreen. Leaves 0.75m long. Inflorescences 1.0m high. Wild. Seed.
- PI 508658 **donor id:** 442. **origin:** Argentina. **collected:** February 10, 1979. **collector:** B.L. Burson. **collector id:** 442. **locality:** On Parana River, about 30km S of Montecarlo, Misiones Province. **remarks:** Plants bunch type. Leaves 0.6m long. Inflorescences 1.2m high. Spikelets more round and smaller than typical plants. Wild. Seed.
- PI 508659 **donor id:** 682. **origin:** Argentina. **collected:** June 04, 1979. **collector:** B.L. Burson. **collector id:** 682. **other id:** Quarin No. 433. **locality:** Near Parana River in Corrientes City, Corrientes Province. **remarks:** Plants tall, robust. Wild. Seed.

PI 508660 to 508663. *Paspalum conjugatum* Berg POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508660 **donor id:** 16. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 16. **locality:** Ivoti (Cacata de Sao Miguez) about 45km N of Porto Alegre, Rio Grande do Sul. **remarks:** Plants spreading. Leaves 30cm long. Inflorescences 50cm high. Open sun in moist area. Wild. Seed.
- PI 508661 **donor id:** 429. **origin:** Argentina. **collected:** February 09, 1979. **collector:** B.L. Burson. **collector id:** 429. **locality:** Puerto Rico near Parana River, Misiones Province. **remarks:** Plants low growing. Inflorescences 25cm high. Wild. Seed.

PI 508660 to 508663-continued

PI 508662 donor id: 434. origin: Argentina. collected: February 09, 1979. collector: B.L. Burson. collector id: 434. locality: Beside the Parana River in Puerto Rico, Misiones Province. remarks: Plants leafy form, larger than most. Leaves and inflorescences 0.5 to 0.6m high. Wild. Seed.

PI 508663 donor id: 445. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 445. locality: Route 220, Salto Encandado, 42km E of intersection with Route 12, Misiones Province. remarks: Plants low growing, spreading in very dry area. Inflorescences 30cm high. Wild. Seed.

PI 508664. *Paspalum cordatum* Hackel POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 132. origin: Brazil. collected: January 18, 1979. collector: B.L. Burson. collector id: 132. locality: Beside stream in rocks, pasture at Agronomy Farm in Ponto Grosso, Parana. remarks: Plants upright. Leaves pubescent, 25cm long. Inflorescences 45cm high. Wild. Seed.

PI 508665 to 508667. *Paspalum cromyorrhizon* Trin. ex Doell POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508665 donor id: 213. origin: Brazil. collected: January 26, 1979. collector: B.L. Burson. collector id: 213. locality: BR 290, 20km E of Alegrete, Rio Grande do Sul. remarks: Plants bunch type, leafy. Leaves 0.3m long. Inflorescences 0.75m high. Area recently burned over. Wild. Seed.

PI 508666 donor id: 684. origin: Argentina. collected: June 04, 1979. collector: B.L. Burson. collector id: 684. other id: Quarin No. 435. locality: Beside the Mirinay River between Mercedes and Paso de los Libres, Corrientes Province. remarks: Plants bunch type about 0.6m tall. Wild. Seed.

PI 508665 to 508667-continued

PI 508667 **donor id:** 691. **origin:** Argentina. **collected:** June 22, 1979. **collector:** B.L. Burson. **collector id:** 691. **other id:** Quarin No. 435. **locality:** At Mirinary River between Mercedes and Paso de los Libres, Corrientes Province. **remarks:** Plants bunch type, small about 0.45m tall. Wild. Seed.

PI 508668. *Paspalum denticulatum* Trin. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 690. **origin:** Argentina. **collected:** June 04, 1981. **collector:** B.L. Burson. **collector id:** 690. **other id:** Quarin No. 436. **locality:** INTA Experiment Station, El Colorado, Formosa Province. **remarks:** Plants vigorous, spreading, 0.6 to 0.75m tall. Rhizomes large. Wild. Seed.

PI 508669 to 508727. *Paspalum dilatatum* Poir. POACEAE Dallisgrass

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508669 **donor id:** 5. **origin:** Brazil. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 5. **other id:** Valls 4081. **locality:** Nursery, Facultad Agronomia, Porto Alegre. **remarks:** Plant prostrate form. Leaves 60cm long. Inflorescences 1.2m tall. Anthers yellow. Wild. Seed.

PI 508670 **donor id:** 22. **origin:** Brazil. **collected:** January 13, 1979. **collector:** B.L. Burson. **collector id:** 22. **locality:** Route BR 116, 3km S of Caxais do Sul, Rio Grande do Sul. **remarks:** Plants upright. Leaves 0.6m long, similar to vasey grass. Inflorescence 1.5-1.8m high. Wild. Seed.

PI 508671 **donor id:** 24. **origin:** Brazil. **collected:** January 13, 1979. **collector:** B.L. Burson. **collector id:** 24. **locality:** Rocky soil along Route BR 116, 3km S of Caxais do Sul, Rio Grande do Sul. **remarks:** Plants common type. Leaves 0.45m long. Inflorescences 0.9m high with long, lax racemes. Anthers purple. Wild. Seed.

PI 508669 to 508727-continued

- PI 508672 **donor id:** 27. **origin:** Brazil. **collected:** January 13, 1979. **collector:** B.L. Burson. **collector id:** 27. **locality:** Route BR 116, 7km N of Caxais do Sul, Rio Grande do Sul. **remarks:** Plants intermediate between *P. dilatatum* and *P. urvillei*. Inflorescences 1.8m high with numerous racemes. Wild. Seed.
- PI 508673 **donor id:** 30. **origin:** Brazil. **collected:** January 13, 1979. **collector:** B.L. Burson. **collector id:** 30. **locality:** Route BR 116, 1km N of Vacaria, Rio Grande do Sul. **remarks:** Plants short leafy type intermediate between *P. urvillei* and yellow-anthered *P. dilatatum*. Leaves 0.45m long. Inflorescences 0.9m high. Anthers yellow. Wild. Seed.
- PI 508674 **donor id:** 44. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 44. **locality:** Route BR 116 at Pelotis (Uruguay) River, Rio Grande do Sul. **remarks:** Plants common type, semi-decumbent. Inflorescences 0.9m high, more open and longer racemes than most. Anthers purple. Wild. Seed.
- PI 508675 **donor id:** 50. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 50. **other id:** Valls 4415. **locality:** Route BR 116, 6km N of Pelotis River (Uruguay), Santa Catarina. **remarks:** Leaves 0.3m long. Inflorescences 0.9m high. Anthers yellow. Wild. Seed.
- PI 508676 **donor id:** 51. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 51. **other id:** Valls 4410. **locality:** Route BR 116, 6km N of Pelotis River (Uruguay), Santa Catarina. **remarks:** Leaves 15 to 25cm. Inflorescences 45cm high with numerous racemes in all directions off rachis. Anthers purple. Wild. Seed.
- PI 508677 **donor id:** 52. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 52. **locality:** Route BR 116, 6km N of Pelotis River (Uruguay), Santa Catarina. **remarks:** Plants somewhat decumbent. Leaves 0.3m long. Inflorescences 0.9m high. Anthers yellow. Wild. Seed.
- PI 508678 **donor id:** 53. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 53. **other id:** Valls 4416. **locality:** Route BR 116, 6km N of Pelotis River (Uruguay), Santa Catarina. **remarks:** Plant form intermediate between *P. urvillei* and yellow-anthered *P. dilatatum*. Leaves 0.6m long. Inflorescences 0.9m high with open, lax racemes. Wild. Seed.

PI 508669 to 508727-continued

- PI 508679 donor id: 54. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 54. locality: Route BR 116, 6km N of Pelotis River (Uruguay), Santa Catarina. remarks: Plants upright, base looks like *P. urvillei*. Leaves 0.3m long. Inflorescences 0.75m high with spikelets and yellow anthers that look like *P. dilatatum*. Wild. Seed.
- PI 508680 donor id: 55. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 55. locality: Route BR 116, 6km N of Pelotis River (Uruguay), Santa Catarina. remarks: Plants upright. Leaves 0.3m long. Inflorescences 0.9m high. Anthers yellow. Wild. Seed.
- PI 508681 donor id: 56. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 56. locality: Route BR 116, 6km N of Pelotis River (Uruguay), Santa Catarina. remarks: Plants leafy. Leaves 0.45m long. Inflorescences 0.9m high. Anthers yellow. Wild. Seed.
- PI 508682 donor id: 57. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 57. locality: Route BR 116, 6km N of Pelotis River (Uruguay), Santa Catarina. remarks: Leaves 25cm long. Inflorescences 60cm high. Anthers purple. Wild. Seed.
- PI 508683 donor id: 63. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 63. locality: On road to Sao Jarquim, 40km E of Lages, Santa Catarina. remarks: Plants erect. Leaves 30cm long. Inflorescences 90cm high with 6 to 7 racemes each. Anthers yellow. Wild. Seed.
- PI 508684 donor id: 64. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 64. locality: On road to Sao Jarquim, 40km E of Lages, Santa Catarina. remarks: Plants erect. Leaves 60cm long. Inflorescences 120cm high. Anthers yellow. Wild. Seed.
- PI 508685 donor id: 65. origin: Brazil. collected: January 15, 1979. collector: B.L. Burson. collector id: 65. locality: On road to Cruzeiro, 2km E of Sao Jarquim, Santa Catarina. elevation: 1400m. remarks: Plants large. Leaves 0.6m long. Inflorescences 1.2 to 1.5m high with open racemes. Anthers yellow. Wild. Seed.

PI 508669 to 508727-continued

- PI 508686 donor id: 67. origin: Brazil. collected: January 15, 1979. collector: B.L. Burson. collector id: 67. locality: On road to Cruzeiro, 5km E of Sao Jarquim, Santa Catarina. remarks: Plants low-growing prostrate type, leafy. Leaves 20cm long. Inflorescences 30 to 38cm high with up to 10 racemes each. Wild. Seed.
- PI 508687 donor id: 68. origin: Brazil. collected: January 15, 1979. collector: B.L. Burson. collector id: 68. locality: East 13km of Cruzeiro, Santa Catarina. remarks: Plants from uniform population. Leaves 30 to 45cm long. Inflorescences purple, 90cm high with lax racemes. Anthers purple. Wild. Seed.
- PI 508688 donor id: 72. origin: Brazil. collected: January 15, 1979. collector: B.L. Burson. collector id: 72. locality: East 13km of Cruzeiro, Santa Catarina. remarks: Plants erect. Inflorescences open, purple. Anthers yellow. Wild. Seed.
- PI 508689 donor id: 87. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 87. locality: Along road to Lages, Santa Catarina, 27km NW of Sao Jarquim. remarks: Plants large with many racemes. Leaves 0.9m long. Inflorescences 1.2m high. Anthers yellow. Wild. Seed.
- PI 508690 donor id: 88. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 88. locality: Along road to Lages, Santa Catarina, 27km NW of Sao Jarquim. remarks: Leaves wide, 0.45cm long. Inflorescences 1.5m high. Anthers yellow. Wild. Seed.
- PI 508691 donor id: 89. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 89. locality: Along road to Lages, Santa Catarina, 27km NW of Sao Jarquim. remarks: Plants upright, leafy. Leaves 0.6m long. Inflorescences 1.2m high. Wild. Seed.
- PI 508692 donor id: 91. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 91. locality: Along road to Lages, Santa Catarina, 27km NW of Sao Jarquim. remarks: Plants common type, semi-decumbent. Leaves 30cm long. Inflorescences 60cm high. Anthers purple. Wild. Seed.
- PI 508693 donor id: 153. origin: Brazil. collected: January 19, 1979. collector: B.L. Burson. collector id: 153. locality: Route BR 373, 130km W of Ponto Grosso, Parana. remarks: Leaves 25cm long. Inflorescences 75cm high. Anthers and spikelets purple. Wild. Seed.

PI 508669 to 508727-continued

- PI 508694 donor id: 201. origin: Brazil. collected: January 23, 1979. collector: B.L. Burson. collector id: 201. locality: Route BR 290, 20km W of Sao Gabriel, Rio Grande do Sul. remarks: Leaves 0.6m long. Inflorescences 0.9m high. Anthers purple. Wild. Seed.
- PI 508695 donor id: 203. origin: Brazil. collected: January 23, 1979. collector: B.L. Burson. collector id: 203. locality: Route BR 290, 20km W of Sao Gabriel, Rio Grande do Sul. remarks: Inflorescences 0.75 to 0.9m high. Anthers purple. Wild. Seed.
- PI 508696 donor id: 204. origin: Brazil. collected: January 23, 1979. collector: B.L. Burson. collector id: 204. locality: Route BR 290, 20km W of Sao Gabriel, Rio Grande do Sul. remarks: Inflorescences 0.9m tall. Anthers purple. Wild. Seed.
- PI 508697 donor id: 214. origin: Brazil. collected: January 23, 1979. collector: B.L. Burson. collector id: 214. locality: In a pasture, Agronomy farm, Uruguaiana, Rio Grande do Sul. remarks: Plants semi-decumbent. Leaves 45cm long. Inflorescences 0.9m high. Anthers purple. Wild. Seed.
- PI 508698 donor id: 224. origin: Brazil. collected: January 23, 1979. collector: B.L. Burson. collector id: 224. locality: In a pasture, Agronomy farm, Uruguaiana, Rio Grande do Sul. remarks: Plants may be Uruguaiana form, grazed. Wild. Seed.
- PI 508699 donor id: 226. origin: Argentina. collected: January 26, 1979. collector: B.L. Burson. collector id: 226. locality: Drought area along Route 8, 89km W of Buenos Aires. remarks: Plants common form, large population. Anthers purple. Wild. Seed.
- PI 508700 donor id: 227. origin: Argentina. collected: January 26, 1979. collector: B.L. Burson. collector id: 227. locality: Route 8, 106km W of Buenos Aires. remarks: Plants upright, leafy, common type. Leaves 45cm long. Inflorescences 90cm high. Wild. Seed.
- PI 508701 donor id: 229. origin: Argentina. collected: January 26, 1979. collector: B.L. Burson. collector id: 229. locality: Route 8, 106km W of Buenos Aires. remarks: Plants robust, upright, leafy. Leaves 0.9m long. Inflorescences 1.35m high. Wild. Seed.

PI 508669 to 508727-continued

- PI 508702 **donor id:** 231. **origin:** Argentina. **collected:** January 26, 1979. **collector:** B.L. Burson. **collector id:** 231. **locality:** Route 8, 211km NW of Buenos Aires. **remarks:** Plants upright, common type. Leaves 0.45m long. Inflorescences 1.2m high. Wild. Seed.
- PI 508703 **donor id:** 233. **origin:** Argentina. **collected:** January 26, 1979. **collector:** B.L. Burson. **collector id:** 233. **locality:** Route 8, 296km NW of Buenos Aires, Santa Fe Province. **remarks:** Plants leafy, common type. Leaves 45cm long. Inflorescences 90cm high. Anthers purple. Wild. Seed.
- PI 508704 **donor id:** 235. **origin:** Argentina. **collected:** January 26, 1979. **collector:** B.L. Burson. **collector id:** 235. **locality:** On Route 33, north edge of Hughes, Santa Fe Province. **remarks:** Plants vigorous, open in center, common type. Leaves 60cm long. Inflorescences 90cm high. Wild. Seed.
- PI 508705 **donor id:** 236. **origin:** Argentina. **collected:** January 26, 1979. **collector:** B.L. Burson. **collector id:** 236. **locality:** On Route 33, north edge of Hughes, Santa Fe Province. **remarks:** Plants upright, vigorous. Leaves 75cm long. Inflorescences 100cm high. Wild. Seed.
- PI 508706 **donor id:** 240. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 240. **locality:** Grazed area, 76km W of Venado Tuerto, Cordoba Province. **remarks:** Plants robust, leafy, common type. Leaves 45cm long. Inflorescences 90cm high. Wild. Seed.
- PI 508707 **donor id:** 243. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 243. **locality:** On Route 8 at 489km marker, W of Buenos Aires. **remarks:** Plants large, leafy. Leaves 0.9 to 1.2m long. Inflorescences 1.5m high. Wild. Seed.
- PI 508708 **donor id:** 246. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 246. **locality:** Villa Nueva, 3km S of Villa Maria, Cordoba Province. **remarks:** Plants robust, common type with large racemes. Leaves 0.9m long. Inflorescences 1.2m high. Wild. Seed.
- PI 508709 **donor id:** 248. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 248. **locality:** Route 9, 8km NW of Olivia, Cordoba Province. **remarks:** Plants semi-decumbent, common type. Inflorescences similar to *P. uruguiana*. Wild. Seed.

PI 508669 to 508727-continued

- PI 508710 **donor id:** 269. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 269. **locality:** Northwest edge of Cordoba. **remarks:** Plants robust, common type. Leaves 0.9m long. Inflorescences 1.5m high. Anthers purple. Wild. Seed.
- PI 508711 **donor id:** 285. **origin:** Argentina. **collected:** January 29, 1979. **collector:** B.L. Burson. **collector id:** 285. **locality:** West, 9km of Helvecia, Santa Fe Province. **remarks:** Plants vigorous, common type. Leaves 0.6km long. Inflorescences 0.9km high. Wild. Seed.
- PI 508712 **donor id:** 303. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 303. **locality:** Route 11, 148km S of Santa Fe. **remarks:** Plants upright, common type. Leaves 0.9m long. Inflorescences lax, 1.65m high. Wild. Seed.
- PI 508713 **donor id:** 379. **origin:** Argentina. **collected:** February 06, 1979. **collector:** B.L. Burson. **collector id:** 379. **locality:** Grazed area, Route 14, 35km S of Curuzu Cuatia, Corrientes Province. **remarks:** Plants erect, leafy. Leaves 30cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508714 **donor id:** 530. **origin:** Argentina. **collected:** February 16, 1979. **collector:** B.L. Burson. **collector id:** 530. **locality:** Route 4, 27km SE of Hurlingham, Buenos Aires Province. **remarks:** Plants erect. Leaves 45cm long. Inflorescences 75cm high. Anthers yellow. Wild. Seed.
- PI 508715 **donor id:** 531. **origin:** Argentina. **collected:** February 16, 1979. **collector:** B.L. Burson. **collector id:** 531. **locality:** Route 4, 27km SE of Hurlingham, Buenos Aires Province. **remarks:** Plants tall, slender, stemy. Leaves 45cm long. Inflorescences 90cm high. Spikelets small. Anthers yellow. Wild. Seed.
- PI 508716 **donor id:** 534. **origin:** Argentina. **collected:** February 16, 1979. **collector:** B.L. Burson. **collector id:** 534. **locality:** Near corner of streets 60th and 18th, La Plata. **remarks:** Plants small. Leaves 15-20cm long. Inflorescences 45cm high. Anthers yellow. Wild. Seed.
- PI 508717 **donor id:** 545. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 545. **locality:** East edge of Chascomus, Buenos Aires Province. **remarks:** Plants small form. Leaves 20-25cm long. Inflorescences 45 to 60cm high. Anthers yellow. Wild. Seed.

PI 508669 to 508727-continued

- PI 508718 **donor id:** 549. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 549. **locality:** Pila, Buenos Aires Province. **remarks:** Plants erect with thin leaves. Leaves 30-40cm long. Inflorescences 60cm high. Anthers purple. Wild. Seed.
- PI 508719 **donor id:** 550. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 550. **locality:** Beside PI 508718, Pila, Buenos Aires Province. **remarks:** Plants semi-prostrate, common type with broad leaves. Leaves 40cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508720 **donor id:** 551. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 551. **locality:** Adjacent to PI 508718, Pila, Buenos Aires Province. **remarks:** Plants erect, vigorous, leafy. Leaves 30cm long. Inflorescences 90cm high, lax. Anthers yellow. Wild. Seed.
- PI 508721 **donor id:** 553. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 553. **locality:** Route 41, 1.0km W of General Belgrano, Buenos Aires Province. **remarks:** Plants large, erect, large and variable population. Leaves 30cm long. Inflorescences 90cm high. Anthers yellow. Wild. Seed.
- PI 508722 **donor id:** 554. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 554. **locality:** Route 41, 1.0km W of General Belgrano, Buenos Aires Province. **remarks:** Plants leafy. Leaves 38cm long. Inflorescences 60 to 75cm high. Anthers yellow. Wild. Seed.
- PI 508723 **donor id:** 558. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 558. **locality:** West, 25km of General Belgrano. **remarks:** Plants robust, leafy, variable, larger than common form in area. Leaves 0.6cm long. Inflorescences 1.35 to 1.5m high. Anthers yellow. Wild. Seed.
- PI 508724 **donor id:** 559. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 559. **locality:** West, 25km of General Belgrano. **remarks:** Plants tall, leafy form. Leaves 0.45m long. Inflorescences 1.5m high. Anthers yellow. Wild. Seed.
- PI 508725 **donor id:** 564. **origin:** Argentina. **collected:** February 18, 1979. **collector:** B.L. Burson. **collector id:** 564. **locality:** South edge of Rafdela, Santa Fe Province. **remarks:** Plants prostrate. Leaves 30cm long. Inflorescences 45cm high. Anthers purple. Wild. Seed.

PI 508669 to 508727-continued

PI 508726 **donor id:** 640. **origin:** Bolivia. **collected:** February 24, 1979. **collector:** B.L. Burson. **collector id:** 640.
locality: Tarija, Tarija Department. **remarks:** Plants erect, leafy. Leaves 30cm long. Inflorescences 45cm high. Spikelets purple. Wild. Seed.

PI 508727 **donor id:** 680. **origin:** Bolivia. **collected:** March 15, 1979. **collector:** B.L. Burson. **collector id:** 680.
locality: Tarija, Tarija Department. **remarks:** Plant erect, leafy. Leaves 30cm long. Inflorescences 45cm high. Spikelets purple. Wild. Seed.

PI 508728 to 508737. *Paspalum distichum* L. POACEAE Knotgrass

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508728 **donor id:** 225. **origin:** Argentina. **collected:** January 26, 1979. **collector:** B.L. Burson. **collector id:** 225.
locality: Wet area along Route 8 at Ao de la Cruz, 84km W of Buenos Aires. **remarks:** Plants spreading. Leaves 25cm long. Wild. Seed.

PI 508729 **donor id:** 237. **origin:** Argentina. **collected:** January 26, 1979. **collector:** B.L. Burson. **collector id:** 237.
locality: Junction of Routes 8 and 94, 38km SW of Melincue, Santa Fe Province. **remarks:** Plants dense sod former. Leaves 7-10cm long. Inflorescences 10cm high. Wild. Seed.

PI 508730 **donor id:** 251. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 251.
locality: Route 9, 1.0km W of Manferti, Cordoba Province. **remarks:** Plants spreading, stoloniferous. Leaves 7cm long. Inflorescences 12cm high. Wild. Seed.

PI 508731 **donor id:** 270. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 270.
locality: Wet area at Station Km 658, Route 19, 67km E of Cordoba. **remarks:** Plants low growing, spreading, with 2-3 racemes per inflorescence. Spikelets similar to prostrate dallisgrass. Wild. Seed.

PI 508732 **donor id:** 275. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 275.
locality: On Laguna Mar Chi Quita, 4km S of Miramar, Cordoba Province. **remarks:** Plants course stem type forming a dense mat or turf. Wild. Seed.

PI 508728 to 508737-continued

- PI 508733 **donor id:** 276. **origin:** Argentina. **collected:** January 29, 1979. **collector:** B.L. Burson. **collector id:** 276. **locality:** Moist area, northeast of edge of San Francisco, Cordoba Province. **remarks:** Plants spreading. Leaves and inflorescences 45cm long. Wild. Seed.
- PI 508734 **donor id:** 313. **origin:** Argentina. **collected:** January 31, 1979. **collector:** B.L. Burson. **collector id:** 313. **locality:** South, 6km of Rosario, Santa Fe Province. **remarks:** Plants low growing, spreading with stolons, leafy. Inflorescences 25-30cm high with 2-3 racemes each. Wild. Seed.
- PI 508735 **donor id:** 419. **origin:** Argentina. **collected:** February 09, 1979. **collector:** B.L. Burson. **collector id:** 419. **locality:** Ao San Juan, Route 12, 30km N of Posadas, Misiones Province. **remarks:** Plants low growing, spreading, stoloniferous, dense turf former. Inflorescences 15cm high. Wild. Seed.
- PI 508736 **donor id:** 470. **origin:** Argentina. **collected:** February 11, 1979. **collector:** B.L. Burson. **collector id:** 470. **locality:** Route 126, 8km E of Curuzu Cuatia, Corrientes Province. **remarks:** Plants low growing, spreading, dense turf former. Wild. Seed.
- PI 508737 **donor id:** 692. **origin:** Argentina. **collected:** June 22, 1979. **collector:** B.L. Burson. **collector id:** 692. **locality:** Corrientes City, Corrientes Province. **remarks:** Plants low growing, stoloniferous. Collected for Burson by C.L. Quarin. Wild. Seed.

PI 508738. *Paspalum erianthum* Nees ex Trin. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 124. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 124. **locality:** Pasture at Agronomy Farm, Ponto Grosso, Parana. **remarks:** Plants bunch type. Leaves 45cm long, pubescent. Inflorescences conjugate, 90cm high. Cultivated and wild. Wild. Seed.

PI 508739 to 508746. *Paspalum exaltatum* Presl POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508739 **donor id:** 6. **origin:** Brazil. **origin institute:** Facultad Agronomia, Porto Alegre. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 6. **other id:** Valls 4080. **locality:** Nursery. **remarks:** Plants tall. Leaves 0.9-1.0m long. Inflorescences 2.1m high. Cultivated. Seed.
- PI 508740 **donor id:** 8. **origin:** Brazil. **origin institute:** Facultad Agronomia, Porto Alegre. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 8. **locality:** Nursery. **remarks:** Plant base purple. Leaves 1.2m long. Inflorescences 1.8m tall. Cultivated. Seed.
- PI 508741 **donor id:** 28. **origin:** Brazil. **collected:** January 13, 1979. **collector:** B.L. Burson. **collector id:** 28. **locality:** Low moist area along Route BR 116, 1 km N of Vacaria, Rio Grande do Sul. **remarks:** Plants large bunch type. Leaves coarse, 1.2m long. Inflorescence 1.8m high. Wild. Seed.
- PI 508742 **donor id:** 60. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 60. **locality:** Low moist area along Route BR 116, 10km N of Uruguay (Pelotis) River, Santa Catarina Province. **remarks:** Plants large bunch type. Leaves blue-green, 1.2m long. Inflorescences about 2.0m high. Wild. Seed.
- PI 508743 **donor id:** 73. **origin:** Brazil. **collected:** January 15, 1979. **collector:** B.L. Burson. **collector id:** 73. **locality:** Wet area, 14km E of Cruzeiro, Santa Catarina. **remarks:** Plants bunch type, gray-green color. Leaves coarse, 1.5m long. Inflorescences 2.7 to 3.0m high. Wild. Seed.
- PI 508744 **donor id:** 107. **origin:** Brazil. **collected:** January 16, 1979. **collector:** B.L. Burson. **collector id:** 107. **other id:** Valls 4513. **locality:** Route BR 470, 67km E of Campos Novos, Santa Catarina. **remarks:** Plants bunch type. Leaves lax, 0.9m long. Inflorescences 2.1m high. Spikelets purple. Wild. Seed.
- PI 508745 **donor id:** 142. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 142. **locality:** Side of Papagaios River, 55km E of Ponto Grosso. **remarks:** Plants robust, bunch type. Leaves 1.2-1.5m long, blades closed at base. Inflorescences 2.1m high. Wild. Seed.

PI 508739 to 508746-continued

PI 508746 **donor id:** 149. **origin:** Brazil. **collected:** January 19, 1979. **collector:** B.L. Burson. **collector id:** 149. **locality:** Low wet area, Route BR 373, 142km west of Ponto Grosso. **remarks:** Plants robust, bunch type, blue-green. Leaves 0.9m long. Inflorescences 1.2-1.5m high. Wild. Seed.

PI 508747. *Paspalum guaraniticum* Parodi POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 413. **origin:** Argentina. **collected:** February 08, 1979. **collector:** B.L. Burson. **collector id:** 413. **locality:** Route 12, 154km E of road to Itati, Corrientes Province. **remarks:** Plants bunch type. Leaves 30cm long. Inflorescences conjugate, 60 to 75cm high. Wild. Seed.

PI 508748 to 508760. *Paspalum guenoarum* Arech. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508748 **donor id:** 3. **origin:** Brazil. **origin institute:** Facultad Agronomia, Porto Alegre. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 3. **other id:** Valls 4078. **locality:** Nursery. **remarks:** Plants 0.3m tall, stemy. Inflorescences 0.75m tall. Cultivated. Seed.

PI 508749 **donor id:** 4. **origin:** Brazil. **origin institute:** Facultad Agronomia, Porto Alegre. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 4. **other id:** Valls 4087. **locality:** Nursery. **remarks:** Plants stemy. Leaves pubescent, 45cm. Inflorescences 0.9m tall. Cultivated. Seed.

PI 508750 **donor id:** 13. **origin:** Brazil. **origin institute:** Facultad Agronomia, Porto Alegre. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 13. **other id:** Valls 4231. **locality:** Nursery. **remarks:** Leafy type. Leaves folded together, 45cm long. Inflorescences 0.9m tall. Cultivated. Seed.

PI 508748 to 508760-continued

- PI 508751 donor id: 96. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 96. other id: Valls 4494. locality: Route BR 116, 8km N of Lages, Santa Catarina. remarks: Plants slender, rhizomatous. Leaves 30cm long, rolled. Inflorescences 90cm tall. Wild. Seed.
- PI 508752 donor id: 109. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 109. locality: Route BR 470, 67km E of Campos Novos, Santa Catarina. remarks: Plants leafy type. Leaves glabrous, 30cm long. Inflorescences purple, 90cm high. Wild. Seed.
- PI 508753 donor id: 161. origin: Brazil. collected: January 20, 1979. collector: B.L. Burson. collector id: 161. locality: Sandy soil along road to Alagados, 15km NE of Ponto Grosso, Parana. remarks: Plants small. Leaves 30cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508754 donor id: 183. origin: Brazil. collected: January 22, 1979. collector: B.L. Burson. collector id: 183. locality: Sandy soil, Agronomy Experimental Farm, Guaiba, 50km W of Porto Alegre, Rio Grande do Sul. remarks: Plants low growing, leafy. Leaves prostrate, 60cm long. Inflorescences 75cm high. Area hot and dry. Wild. Seed.
- PI 508755 donor id: 184. origin: Brazil. collected: January 22, 1979. collector: B.L. Burson. collector id: 184. locality: Sandy soil, Agronomy Experimental Farm, Guaiba, 50km W of Porto Alegre, Rio Grande do Sul. remarks: Plants leafy bunch type, good appearance under extremely dry conditions. Leaves 0.9m long. Inflorescences 1.2m high. Wild. Seed.
- PI 508756 donor id: 185. origin: Brazil. collected: January 22, 1979. collector: B.L. Burson. collector id: 185. locality: Sandy soil, Agronomy Experimental Farm, Guaiba, 50km W of Porto Alegre, Rio Grande do Sul. remarks: Plants leafy bunch type. Leaves 0.9m long. Inflorescences 1.2m high. Wild. Seed.
- PI 508757 donor id: 186. origin: Brazil. collected: January 22, 1979. collector: B.L. Burson. collector id: 186. locality: Sandy soil, Agronomy Experimental Farm, Guaiba, 50km W of Porto Alegre, Rio Grande do Sul. remarks: Plants leafy, good appearance. Leaves blue-green, 45cm long. Inflorescences 60cm high. Wild. Seed.

PI 508748 to 508760-continued

- PI 508758 donor id: 328. origin: Argentina. origin institute: Facultad de Agronomia, University of Buenos Aires, Buenos Aires. collected: January 02, 1979. collector: B.L. Burson. collector id: 328. locality: Parodi's old garden. remarks: Plant bunch type with leafy base. Leaves 60cm long. Inflorescences 90cm high. Cultivated. Seed.
- PI 508759 donor id: 421. origin: Argentina. collected: February 01, 1979. collector: B.L. Burson. collector id: 421. locality: Ao San Juan, on Route 12, 30km N of Posadas, Misiones Province. remarks: Plants erect. Leaves thin, 30 to 38cm long. Inflorescences 75cm high, green color. Wild. Seed.
- PI 508760 donor id: 440. origin: Argentina. collected: February 09, 1979. collector: B.L. Burson. collector id: 440. locality: Route 12, 11km N of Montecarlo, Misiones Province. remarks: Plants erect, blue-green color. Leaves 0.6m long. Inflorescences 1.2m or more high. Wild. Seed.

PI 508761. *Paspalum haumanii* Parodi POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 357. origin: Argentina. collected: February 05, 1979. collector: B.L. Burson. collector id: 357. locality: Ao El Palmar, 70km N of Colon, Entre Rios Province. remarks: Plants large, robust. Leaves blue-green, lax, 0.9m long. Inflorescences 1.2-1.5m high. Wild. Seed.

PI 508762 to 508764. *Paspalum humboldtianum* Fluegge POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508762 donor id: 262. origin: Argentina. collected: January 28, 1979. collector: B.L. Burson. collector id: 262. locality: At dam of Embalse S. Roque, 12km N of Villa Callos Pas, Cordoba Province. remarks: Plants leafy. Inflorescences about 38cm high, 3-4 racemes each. Spikelets pubescent, purple. Wild. Seed.

PI 508762 to 508764-continued

PI 508763 **donor id:** 268. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 268. **locality:** East, 16km of Cosquim, Cordoba Province. **remarks:** Leaves 0.6m long with slight pubescence around margins. Inflorescences 0.9-1.2m high, pubescent. Spikelets purple, pubescent. Wild. Seed.

PI 508764 **donor id:** 626. **origin:** Argentina. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 626. **locality:** Grazed, high elevation area, Route 9, 33km N of Jujuy, Jujuy Province. **remarks:** Plants small, pubescent bunch type. Spikelets pubescent, purple. Wild. Seed.

PI 508765 to 508767. *Paspalum* hybrid POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508765 **donor id:** 104. **origin:** Brazil. **pedigree:** *P. urvillei*/*P. dilatatum*. **collected:** January 16, 1979. **collector:** B.L. Burson. **collector id:** 104. **locality:** Route BR 116, 58km N of Lages, Santa Catarina. **remarks:** Plant intermediate type between the two species, ergot infected. Leaves 0.9m long. Inflorescences 1.5m high. Spikelets purple. Wild. Seed.

PI 508766 **donor id:** 147. **origin:** Brazil. **pedigree:** *P. urvillei*/*P. dilatatum*. **collected:** January 19, 1979. **collector:** B.L. Burson. **collector id:** 147. **locality:** Route BR 373, 42km W of Ponto Grosso, Parana. **remarks:** Plants large. Leaves 1.5m long. Inflorescences large, open 2.1m high, with 15-20 racemes. Wild. Seed.

PI 508767 **donor id:** 150. **origin:** Brazil. **pedigree:** *P. urvillei*/*P. dilatatum*. **collected:** January 19, 1979. **collector:** B.L. Burson. **collector id:** 150. **locality:** Route BR 373, 5km E of Guaraduava, Parana, 150km W of Ponto Grosso. **remarks:** Plants large, robust, leafy. Leaves glabrous, 0.9m long. Inflorescences purple, 1.5m high. Spikelets small. Wild. Seed.

PI 508768 to 508769. *Paspalum* inaequivalve Raddi POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508768 to 508769-continued

PI 508768 donor id: 392. origin: Argentina. collected: February 07, 1979. collector: B.L. Burson. collector id: 392. locality: At Ao Ambrosia on Route 12, 77km N of Intersection of Routes 27 and 12, Corrientes Province. remarks: Plants low growing, spreading, small. Wild. Seed.

PI 508769 donor id: 441. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 441. locality: Along Parana River, about 30km S of Montecarlo, Misiones Province. remarks: Plants low growing, spreading. Leaves 5-7cm long. Inflorescences 15-20cm high. Wild. Seed.

PI 508770 to 508771. *Paspalum indecorum* Mez POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508770 donor id: 215. origin: Brazil. collected: January 23, 1979. collector: B.L. Burson. collector id: 215. locality: Grazed and drought stressed pasture, Agronomy Farm, Uruguaiana, Rio Grande do Sul. remarks: Plants low growing. Leaves pubescent on margins. Inflorescences 20-35cm high. Wild. Seed.

PI 508771 donor id: 449. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 449. locality: Heavily grazed, very dry area, Route 1, 24km S of Posadas, Misiones Province. remarks: Plants small, erect. Leaves 7-10cm long. Inflorescences 37cm high. Wild. Seed.

PI 508772 to 508774. *Paspalum ionanthum* Chase POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508772 donor id: 685. origin: Argentina. collected: June 04, 1979. collector: B.L. Burson. collector id: 685. other id: Quarin 424. locality: North edge of Chavarria, Corrientes Province. remarks: Plants bunch type, 75-95cm tall. Anthers and stigmas purple. Wild. Seed.

PI 508772 to 508774-continued

- PI 508773 **donor id:** 686. **origin:** Argentina. **collected:** June 04, 1979. **collector:** C.L. Quarin, B.L. Burson. **collector id:** 686. **locality:** North edge of Chavarria, Corrientes Province. **remarks:** Plants bunch type, 75-90cm tall. Anthers yellow. Stigmas purple. Wild. Seed.
- PI 508774 **donor id:** 687. **origin:** Argentina. **collected:** June 04, 1979. **collector:** B.L. Burson. **collector id:** 687. **locality:** North edge of Chavarria, Corrientes Province. **remarks:** Plants bunch type, 75-90cm tall. Anthers yellow. Stigmas white. Wild. Seed.

PI 508775 to 508787. *Paspalum juergensii* Hackel POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508775 **donor id:** 7. **origin:** Brazil. **origin institute:** Facultad Agronomia, Porto Algegre. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 7. **other id:** Valls 4091. **locality:** Nursery. **remarks:** Plants large. Leaves 0.6m long. Inflorescences 0.9-1.2m tall. Cultivated. Seed.
- PI 508776 **donor id:** 17. **origin:** Brazil. **collected:** January 13, 1979. **collector:** B.L. Burson. **collector id:** 17. **locality:** Sunny area, Ivoti (Cascata de Sao Miguez), 45km N Porto Alegre, Rio Grande do Sul. **remarks:** Plants leafy, erect, with rhizomes. Leaves 45cm long. Inflorescences 0.75m tall. Wild. Seed.
- PI 508777 **donor id:** 43. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 43. **locality:** Route BR 116 at Pelotis (Uruguay) River, Rio Grande do Sul. **remarks:** Plants upright, small size may be affected by environment. Leaves 30cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508778 **donor id:** 119. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 119. **locality:** Agronomy Farm, Ponto Grosso, Parana. **remarks:** Plants stemy. Inflorescences 0.9m high. Wild. Seed.
- PI 508779 **donor id:** 136. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 136. **locality:** Lagoa Dourado (yellow-gold) Lake, 20km E of Ponto Grosso, Parana. **remarks:** Plants low growing form with open center. Leaves 30cm long. Inflorescences 45cm high. Wild. Seed.

PI 508775 to 508787-continued

- PI 508780 **donor id:** 137. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 137. **locality:** Lagoa Dourado (yellow-gold) Lake, 20km E of Ponto Grosso, Parana. **remarks:** Plants tall, stemy form, 1.2m tall with open center. Inflorescences has more racemes and smaller spikelets than PI 508779. Wild. Seed.
- PI 508781 **donor id:** 140. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 140. **locality:** Lagoa Dourado (yellow-gold) Lake, 20km E of Ponto Grosso, Parana. **remarks:** Plants tall with open center. Inflorescence 1.5m high, lax. Wild. Seed.
- PI 508782 **donor id:** 148. **origin:** Brazil. **collected:** January 19, 1979. **collector:** B.L. Burson. **collector id:** 148. **locality:** Route BR 373, 42km W of Ponto Grosso, Parana. **remarks:** Plants large, leafy. Leaves 0.6-0.9m long. Inflorescences 1.2m high. Wild. Seed.
- PI 508783 **donor id:** 162. **origin:** Brazil. **collected:** January 20, 1979. **collector:** B.L. Burson. **collector id:** 162. **locality:** Northeast, 16km of Ponto Grosso. **remarks:** Leaves glabrous, 30cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508784 **donor id:** 165. **origin:** Brazil. **collected:** January 20, 1979. **collector:** B.L. Burson. **collector id:** 165. **locality:** Open area on hill top along Route BR 373, 10km W of Ponto Grosso. **remarks:** Plants abundant, large, leafy. Leaves 1.5m long. Inflorescences 1.8m high. Anthers white. Wild. Seed.
- PI 508785 **donor id:** 428. **origin:** Argentina. **collected:** February 09, 1979. **collector:** B.L. Burson. **collector id:** 428. **locality:** Very dry area in front of a church, Puerto Rico, Misiones Province. **remarks:** Plants upright. Leaves 20-35cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508786 **donor id:** 436. **origin:** Argentina. **collected:** February 09, 1979. **collector:** B.L. Burson. **collector id:** 436. **locality:** Very dry area in front of a church, Puerto Rico, Misiones Province. **remarks:** Plants different than typical *P. juergensii* with larger inflorescences and highly pubescent leaves. Leaves prostrate. Inflorescences 45cm high. Growing in association with *P. conspersum*. Wild. Seed.

PI 508775 to 508787-continued

PI 508787 donor id: 443. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 443. locality: Route 220, 22km E of Garuhope, Misiones Province. remarks: Plants large, leafed form. Leaves 45cm long. Inflorescences 90cm high. Anthers yellow. Wild. Seed.

PI 508788 to 508791. *Paspalum lividum* Trin. ex Schlecht. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508788 donor id: 277. origin: Argentina. collected: January 29, 1979. collector: B.L. Burson. collector id: 277. locality: Route 19, 29km E of San Francisco, Cordoba Province. remarks: Plants spreading. Leaves 60cm long. Inflorescences 75cm high. Spikelets purple. Wild. Seed.

PI 508789 donor id: 283. origin: Argentina. collected: January 29, 1979. collector: B.L. Burson. collector id: 283. locality: Route 1, 62km NE of Santa Fe. remarks: Plants tall. Leaves 60cm long. Inflorescences 75-90cm high. Spikelets purple. Wild. Seed.

PI 508790 donor id: 295. origin: Argentina. collected: January 30, 1979. collector: B.L. Burson. collector id: 295. locality: Route 11, 28km S of Santa Fe. remarks: Plants spreading. Leaves 15-20cm long. Inflorescences 45cm high. Spikelets purple. Wild. Seed.

PI 508791 donor id: 480. origin: Argentina. collected: February 12, 1979. collector: B.L. Burson. collector id: 480. locality: Route 1, 14km E of La Paz, Entre Rios Province. remarks: Plants spreading, stoloniferous. Leaves 45cm long. Inflorescences 45-65cm high. Wild. Seed.

PI 508792. *Paspalum maculosum* Trin. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508792-continued

donor id: 208. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 208.
locality: Route BR 290, 5km E of Rosario do Sul, Rio Grande do Sul. **remarks:** Plants small, bunch type. Leaves narrow, fine, about 30cm long. Inflorescences conjugate, 45cm high. Wild. Seed.

PI 508793 to 508806. *Paspalum malacophyllum* Trin. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508793 **donor id:** 255. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 255.
locality: Rocky soil, 3km N of Villa Callos Pas, Cordoba Province. **remarks:** Plants upright. Leaves broad, 0.75m long. Inflorescences 1.05m high, purple. Wild. Seed.

PI 508794 **donor id:** 257. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 257.
locality: North, 8km of Villa Callos Pas, Cordoba Province. **remarks:** Plants erect, 1.2m tall. Leaves broad. Wild. Seed.

PI 508795 **donor id:** 259. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 259.
locality: North, 8km of Villa Callos Pas, Cordoba Province. **remarks:** Plants leafy. Leaves broad, 0.9m long. Inflorescences 1.2m high. Wild. Seed.

PI 508796 **donor id:** 260. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 260.
locality: North, 10km of Villa Callos Pas, Cordoba Province. **remarks:** Plants broad, leafy form, about 1.5m tall. Leaves 1.2m long. Wild. Seed.

PI 508797 **donor id:** 267. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 267.
locality: East, 14km of Cosquin, Cordoba Province. **remarks:** Plants small. Leaves 60cm long. Inflorescences 90cm high, purple. Wild. Seed.

PI 508798 **donor id:** 309. **origin:** Argentina. **collected:** January 28, 1979. **collector:** B.L. Burson. **collector id:** 309.
locality: East, 16km of Cosquin, Cordoba Province. **remarks:** Plants erect. Leaves 0.9m high. Inflorescences 1.5m high., many racemes. Spikelets large, purple. Wild. Plant.

PI 508793 to 508806-continued

- PI 508799 donor id: 582. origin: Argentina. collected: February 19, 1979. collector: B.L. Burson. collector id: 582. locality: Route 9, 5km into the SE corner of Tucuman. remarks: Plants erect. Leaves pubescent, 45cm high. Inflorescences 90cm high. Spikelets purple. Wild. Seed.
- PI 508800 donor id: 601. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 601. locality: Route 9, 40km N of Tucuman. remarks: Plants bunch type. Leaves 45cm long. Inflorescences 90cm high. Spikelets purple. Wild. Seed.
- PI 508801 donor id: 607. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 607. locality: Route 34, 33km N of Metan, Salta Province. remarks: Plants large type with leafy base 0.6m high. Leaves broad. Inflorescences large, 1.5m high, many racemes. Wild. Seed.
- PI 508802 donor id: 618. origin: Argentina. collected: February 21, 1979. collector: B.L. Burson. collector id: 618. locality: Route 9, 4km NW of Salta, Salta Province. remarks: Plants erect, bunch type. Leaves 1.2m long. Inflorescences 1.95m high. Wild. Seed.
- PI 508803 donor id: 634. origin: Bolivia. collected: February 23, 1979. collector: B.L. Burson. collector id: 634. locality: Near El Victoria, about 10km W of Tarija, Tarija Department. remarks: Plants leafy, bunch type. Leaves broad, 0.6m long. Inflorescences 1.2m high. Spikelets purple. Wild. Seed.
- PI 508804 donor id: 658. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 658. locality: West, 19km of Entre Rios, Tarija Department. remarks: Plants different form. Leaves broad, 5-7.5cm wide, 15cm wide. Inflorescences 1.2-1.5m high. Wild. Seed.
- PI 508805 donor id: 671. origin: Bolivia. collected: February 25, 1979. collector: B.L. Burson. collector id: 671. locality: North, 83km of Villa Montes, Tarija Department. remarks: Plants large-bunch type. Leaves broad, 4-5cm wide and 1.2m up stem. Inflorescences 1.8m high. Wild. Seed.
- PI 508806 donor id: 674. origin: Bolivia. collected: February 25, 1979. collector: B.L. Burson. collector id: 674. locality: North, 83km of Villa Montes, Tarija Department. remarks: Plants robust. Leaves 0.45m long. Inflorescences 1.2m high. Wild. Seed.

PI 508807 to 508815. *Paspalum mandiocanum* Trin. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508807 **donor id:** 1. **origin:** Brazil. **origin institute:** Facultad Agronomia, Porto Alegre. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 1. **other id:** Valls 4045. **locality:** Nursery. **remarks:** Plants 0.3m tall. Stems many more than typical. Leaves long, 15-30cm. Cultivated. Seed.
- PI 508808 **donor id:** 9. **origin:** Brazil. **origin institute:** Facultad Agronomia, Porto Alegre. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 9. **other id:** Valls 4023. **locality:** Nursery. **remarks:** Plants large, low, 0.3m tall, spread over 0.9-1.2m. Leafy type. Leaves 0.3m long. Cultivated. Seed.
- PI 508809 **donor id:** 15. **origin:** Brazil. **collected:** January 13, 1979. **collector:** B.L. Burson. **collector id:** 15. **locality:** Shady area, Ivoti (Cascata de Sao Miguez), 45km N of Porto Alegre, Rio Grande do Sul. **remarks:** Plants spreading. Leaves 0.3m long. Inflorescences 45cm tall. Wild. Seed.
- PI 508810 **donor id:** 23. **origin:** Brazil. **collected:** January 13, 1979. **collector:** B.L. Burson. **collector id:** 23. **locality:** Route BR 116, 3km S of Caxais do Sul, Rio Grande do Sul. **remarks:** Plants low growing, only 15cm tall. Leaves 5-7.5cm long. Wild. Seed.
- PI 508811 **donor id:** 103. **origin:** Brazil. **collected:** January 16, 1979. **collector:** B.L. Burson. **collector id:** 103. **locality:** On hill off Route BR 116, 46km N of Lages, Santa Catarina. **remarks:** Plants low growing form. Leaves pubescent. Inflorescences 30cm high. Wild. Seed.
- PI 508812 **donor id:** 112. **origin:** Brazil. **collected:** January 16, 1979. **collector:** B.L. Burson. **collector id:** 112. **locality:** Route BR 470, 20km E of Campos Novos, Santa Catarina. **remarks:** Plants prostrate, turf forming. Leaves glabrous. Wild. Seed.
- PI 508813 **donor id:** 115. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 115. **locality:** Shady area, Agronomy Farm, Ponto Grosso, Parana. **remarks:** Leaves glabrous, flat to ground. Inflorescences 20-25cm high. Wild. Seed.

PI 508807 to 508815-continued

PI 508814 donor id: 116. origin: Brazil. collected: January 18, 1979. collector: B.L. Burson. collector id: 116. locality: Shady area, Agronomy Farm, Ponto Grosso, Parana. remarks: Plants upright. Leaves pubescent, 10-15cm long. Inflorescences 30cm high. Wild. Seed.

PI 508815 donor id: 155. origin: Brazil. collected: January 19, 1979. collector: B.L. Burson. collector id: 155. locality: Open sun, Route BR 373, 115km from Ponto Grosso. remarks: Plant spreading over a 60cm area. Inflorescences 30cm high. Wild. Seed.

PI 508816. *Paspalum mandiocanum* var. *subaequiglume* Barreto POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 101. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 101. other id: Valls 4501. locality: On hill off Route BR 116, 46km N of Lages, Santa Catarina. remarks: Plants low growing, large leaf form. Leaves pubescent, up to 15cm long. Inflorescences 30cm high. Wild. Seed.

PI 508817. *Paspalum modestum* Mez POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 683. origin: Argentina. collected: June 04, 1979. collector: B.L. Burson. collector id: 683. other id: Quarin 438. locality: Wet area, near Riachuelo, 15km S of Corrientes City, Corrientes Province. remarks: Plants spreading, stoloniferous. Wild. Seed.

PI 508818 to 508821. *Paspalum nicorae* Parodi POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508818 to 508821-continued

- PI 508818 donor id: 280. origin: Argentina. collected: January 29, 1979. collector: B.L. Burson. collector id: 280. locality: Route 1, 51km NE of Santa Fe. remarks: Leaves bluegreen, 30-45cm long. Inflorescences 60cm high. Anthers yellow-white. Stigmas white. Wild. Seed.
- PI 508819 donor id: 281. origin: Argentina. collected: January 29, 1979. collector: B.L. Burson. collector id: 281. locality: Sandy soil, Route 1, 51km NE of Santa Fe. remarks: Plants green form. Leaves 30-45cm long. Inflorescences 75cm high. Anthers yellow-white. Stigmas purple. Wild. Seed.
- PI 508820 donor id: 365. origin: Argentina. collected: February 05, 1979. collector: B.L. Burson. collector id: 365. locality: Route 14, 9km S of Concordia, Entre Rios Province. remarks: Plants spreading, stoloniferous. Leaves bluegreen, 25cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508821 donor id: 490. origin: Argentina. collected: February 13, 1979. collector: B.L. Burson. collector id: 490. locality: Ao Sauce, Route 14, S of Gualaguaychu, Entre Rios Province. remarks: Plants bluegreen, spreading, rhizomatous. Leaves fine, 30-37cm long. Inflorescences 70cm high. Wild. Seed.

PI 508822 to 508845. *Paspalum notatum* Fluegge POACEAE Bahiagrass

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508822 donor id: 12. origin: Brazil. collected: January 12, 1979. collector: B.L. Burson. collector id: 12. other id: Valls 4121. locality: Nursery. remarks: Plants vigorous, leafy. Leaves 0.3m long. Cultivated. Seed.
- PI 508823 donor id: 37. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 37. locality: Route BR 116, 2km N of Vacaria, Rio Grande do Sul. remarks: Plants low growing form with short stolons. Leaves 5-7cm long. Inflorescences 20cm high. Wild. Seed.
- PI 508824 donor id: 46. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 46. locality: Route BR 116, Pelotis (Uruguay) River, Rio Grande do Sul. remarks: Plants low growing form. Leaves 5-7cm long. Inflorescences 30cm high. Wild. Seed.

PI 508822 to 508845-continued

- PI 508825 donor id: 102. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 102. locality: On hill off Route BR 116, 46km N of Lages, Santa Catarina. remarks: Plants low growing type. Leaves 5cm long. Inflorescences 25cm high. Wild. Seed.
- PI 508826 donor id: 189. origin: Brazil. collected: January 22, 1979. collector: B.L. Burson. collector id: 189. locality: Agronomy Experimental Farm, Guaiba, Rio Grande do Sul. remarks: Plants bunch type, Capivari form. Leaves fine, narrow, 20-30cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508827 donor id: 241. origin: Argentina. collected: January 27, 1979. collector: B.L. Burson. collector id: 241. locality: Grazed area, Route 8, 89km W of Venado Tuerto, Corrientes Province. remarks: Leaves narrow, 30cm long. Inflorescences 45-60cm high. Wild. Seed.
- PI 508828 donor id: 252. origin: Argentina. collected: January 27, 1979. collector: B.L. Burson. collector id: 252. locality: Route 9, 1 km W of Manferti, Cordoba Province. remarks: Plants leafy. Leaves broad, 45cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508829 donor id: 272. origin: Argentina. collected: January 28, 1979. collector: B.L. Burson. collector id: 272. locality: East edge of Arroyito on Route 19, Cordoba Province. remarks: Population large. Plants vigorous, form thick turf. Leaves 45-60cm long. Inflorescences 75-90cm high. Wild. Seed.
- PI 508830 donor id: 279. origin: Argentina. collected: January 29, 1979. collector: B.L. Burson. collector id: 279. locality: Route 1, 29km NE of Santa Fe. remarks: Leaves thin, 30-45cm long. Inflorescences 75cm high. Spikelets small. Wild. Seed.
- PI 508831 donor id: 291. origin: Argentina. collected: January 30, 1979. collector: B.L. Burson. collector id: 291. locality: Isla El Timbo, W side of Parana River between Parana and Santa Fe. remarks: Plants common type. Leaves 30cm long. Inflorescences 45cm high. Spikelets purple. Wild. Seed.
- PI 508832 donor id: 294. origin: Argentina. collected: January 30, 1979. collector: B.L. Burson. collector id: 294. locality: Park (Parque Grl. Belgrand) in Santa Fe. remarks: Plants low growing. Leaves 10-12cm long. Inflorescences 20cm high. Wild. Seed.

PI 508822 to 508845-continued

- PI 508833 **donor id:** 299. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 299. **locality:** Route 11, 35km S of Santa Fe. **remarks:** Plants leafy. Leaves 30cm long. Inflorescences large, 45cm high. Racemes and spikelets large. Wild. Seed.
- PI 508834 **donor id:** 300. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 300. **locality:** Route 11, Arocena, 67km S of Santa Fe, Santa Fe Province. **remarks:** Plants common type, leafy. Leaves 30-45cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508835 **donor id:** 343. **origin:** Argentina. **collected:** February 04, 1979. **collector:** B.L. Burson. **collector id:** 343. **locality:** Very sandy soil, Ao Sauce on Route 12, Entre Rios Province, 117km N of Parana River. **remarks:** Leaves thin, 20cm long. Inflorescences 37cm high. Wild. Seed.
- PI 508836 **donor id:** 347. **origin:** Argentina. **collected:** February 04, 1979. **collector:** B.L. Burson. **collector id:** 347. **locality:** Dry conditions beside Uruguay River at Concepcion del Uruguay, Entre Rios Province. **remarks:** Population large, healthy. Leaves narrow, 25cm long. Inflorescences 37-45cm high. Wild. Seed.
- PI 508837 **donor id:** 359. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 359. **locality:** Very sandy soil, Ao El Palmar, 70km N of Colon, Entre Rios Province. **remarks:** Leaves slender, about 30cm long. Inflorescences 45-60cm high. Wild. Seed.
- PI 508838 **donor id:** 390. **origin:** Argentina. **collected:** February 07, 1979. **collector:** B.L. Burson. **collector id:** 390. **locality:** At Corrientes River bridge on Route 23 W of Mercedes. **remarks:** Plants vigorous, common type. Leaves 30-45cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508839 **donor id:** 446. **origin:** Argentina. **collected:** February 10, 1979. **collector:** B.L. Burson. **collector id:** 446. **locality:** Dry area, along Route 220, Salto Encandado, 42km E of intersection of Routes 12 and 220, Misiones Province. **remarks:** Plants healthy, common type. Leaves narrow, 25cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508840 **donor id:** 461. **origin:** Argentina. **collected:** February 11, 1979. **collector:** B.L. Burson. **collector id:** 461. **locality:** Ao Cuay, Route 129, 33km S of Santo Tome, Corrientes Province. **remarks:** Plants low growing. Leaves pubescent, 5cm long. Inflorescences 15-20cm high. Wild. Seed.

PI 508822 to 508845-continued

- PI 508841 donor id: 581. origin: Argentina. collected: February 19, 1979. collector: B.L. Burson. collector id: 581. locality: Route 9, 87km NW of Santiago del Estero, Santiago del Estero Province. remarks: Plants leafy. Leaves 25-30cm long. Inflorescences 50-60cm high. Wild. Seed.
- PI 508842 donor id: 608. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 608. locality: Route 34, 33km N of Metan, Salta Province. remarks: Plants leafy, common type. Leaves 30cm long. Inflorescences 45-60cm high. Wild. Seed.
- PI 508843 donor id: 637. origin: Bolivia. collected: February 23, 1979. collector: B.L. Burson. collector id: 637. locality: Near El Victoria about 10km W of Tarija, Tarija Department. remarks: Leaves pubescent, 10-15cm long. Inflorescences 25cm high. Wild. Seed.
- PI 508844 donor id: 659. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 659. locality: West, 19km of Entre Rios, Tarija Department. remarks: Plants low growing. Leaves pubescent, 10-15cm long. Inflorescences 25-30cm high. Wild. Seed.
- PI 508845 donor id: 669. origin: Bolivia. collected: February 25, 1979. collector: B.L. Burson. collector id: 669. locality: North, 50km of Villa Montes, Tarija Department. remarks: Plants low growing. Leaves 15-20cm long. Inflorescences 30cm high. Wild. Seed.

PI 508846 to 508852. *Paspalum notatum* var. *saurae* Parodi POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508846 donor id: 287. origin: Argentina. collected: January 30, 1979. collector: B.L. Burson. collector id: 287. locality: Isla El Timbo, W side of Parana River between Parana and Santa Fe. remarks: Leaves narrow, 45-60cm long. Inflorescences 75-90cm high. Wild. Seed.
- PI 508847 donor id: 288. origin: Argentina. collected: January 30, 1979. collector: B.L. Burson. collector id: 288. locality: Isla El Timbo, W side of Parana River between Parana and Santa Fe. remarks: Plants similar to PI 508846 but different population. Wild. Seed.

PI 508846 to 508852-continued

- PI 508848 **donor id:** 289. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 289. **locality:** Isla El Timbo, W side of Parana River between Parana and Santa Fe. **remarks:** Plants smaller than PI 508846 and PI 508847. Leaves narrow, 25-30cm long. Inflorescences 45cm high. Spikelets small. Wild. Seed.
- PI 508849 **donor id:** 290. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 290. **locality:** Isla El Timbo, W side of Parana River between Parana and Santa Fe. **remarks:** Plants small, 50cm tall. Leaves 30cm long. Inflorescences more branched than commonly. Wild. Seed.
- PI 508850 **donor id:** 298. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 298. **locality:** Route 11, 35km S of Santa Fe. **remarks:** Leaves fine, 12cm long. Inflorescences small, 25cm high. Spikelets small. Wild. Seed.
- PI 508851 **donor id:** 484. **origin:** Argentina. **collected:** February 12, 1979. **collector:** B.L. Burson. **collector id:** 484. **locality:** Edge of Ao Feliciano, 31km S of La Paz. **remarks:** Leaves narrow, 30cm long. Inflorescences 40-45cm high. Wild. Seed.
- PI 508852 **donor id:** 489. **origin:** Argentina. **collected:** February 13, 1979. **collector:** B.L. Burson. **collector id:** 489. **locality:** Rio Gualaguay on Route 131, E of Rosario Del Tala, Entre Rios Province. **remarks:** Plants small. Leaves 7.5cm long. Inflorescences 20cm high. Wild. Seed.

PI 508853 to 508854. *Paspalum ovale* Nees POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508853 **donor id:** 211. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 211. **locality:** Route BR 290, 20km E of Alegrete, Rio Grande do Sul. **remarks:** Plants leafy bunch type, selectively grazed. Leaves 45cm long. Inflorescences 90cm high. Wild. Seed.

PI 508853 to 508854-continued

PI 508854 **donor id:** 219. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 219. **locality:** Route BR 290, 20km E of Alegrete, Rio Grande do Sul. **remarks:** Plant leafy bunch type, selectively grazed. Leaves 45cm long. Inflorescences 90cm high. Wild. Seed.

PI 508855. *Paspalum paniculatum* L. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 100. **origin:** Brazil. **collected:** January 16, 1979. **collector:** B.L. Burson. **collector id:** 100. **locality:** Open sunlight, on hill of Route BR 116, 46km N of Lages, Santa Catarina. **remarks:** Plants with open center. Leaves 30cm long. Inflorescences lax, 75cm high. Wild. Seed.

PI 508856 to 508857. *Paspalum pauciciliatum* (Parodi) Herter POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508856 **donor id:** 14. **origin:** Brazil. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 14. **locality:** Lawn at Biology Department, Federal Univ. of Rio Grande do Sul, Porto Alegre. **remarks:** Plants leafy, 45cm high, referred to as prostrate dallisgrass. **received as:** *P. dilatatum* var. *pauciciliatum*. Wild. Seed.

PI 508857 **donor id:** 471. **origin:** Argentina. **collected:** February 11, 1979. **collector:** B.L. Burson. **collector id:** 471. **locality:** Grazed area, 8km E of Curuzu Cuatia on Route 126, Corrientes Province. **remarks:** Plants upright, leafy. Leaves 45cm long. Inflorescences 60cm high. **received as:** *P. dilatatum* var. *pauciciliatum*. Wild. Seed.

PI 508858. *Paspalum paucifolium* Swallen POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 191. origin: Brazil. collected: January 22, 1979. collector: B.L. Burson. collector id: 191. locality: Route BR 290, 89.5km W on Porto Alegre, Rio Grande do Sul. **remarks:** Plants pubescent, upright. Leaves 15cm long. Inflorescences conjugate, 45cm high. Wild. Seed.

PI 508859. *Paspalum pilosum* Lam. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 120. origin: Brazil. collected: January 18, 1979. collector: B.L. Burson. collector id: 120. locality: Selectively grazed, Agronomy Farm at Ponto Grosso, Parana. **remarks:** Plants leafy. Leaves pubescent. Inflorescences with one raceme each. Wild. Seed.

PI 508860 to 508936. *Paspalum plicatulum* Michx. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508860 donor id: 2. origin: Brazil. origin institute: Facultad Agronomia, Porto Alegre. collected: January 12, 1979. collector: B.L. Burson. collector id: 2. other id: Valls 4084. locality: Nursery. **remarks:** Plants compressifolium type, 60cm tall. Leaves flatten at base. Cultivated. Seed.

PI 508861 donor id: 10. origin: Brazil. origin institute: Facultad Agronomia, Porto Alegre. collected: January 12, 1979. collector: B.L. Burson. collector id: 10. other id: Valls 4016. locality: Nursery. **remarks:** Plants erect. Leaves narrow. Inflorescences 90cm high. Cultivated. Seed.

PI 508860 to 508936-continued

- PI 508862 donor id: 29. origin: Brazil. collected: January 13, 1979. collector: B.L. Burson. collector id: 29. locality: Route BR 116, 1.0km N of Vacaria, Rio Grande do Sul. remarks: Plants bunch type with short rhizomes. Leaves fine, about 30cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508863 donor id: 32. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 32. locality: Behind motel along Route BR 116, Vacaria, Rio Grande do Sul. remarks: Plants small, about 30cm tall. Leaves fine, numerous. Wild. Seed.
- PI 508864 donor id: 33. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 33. locality: Disturbed grazed area, behind motel along Route BR 116, Vacaria, Rio Grande do Sul. remarks: Plant bunch type about 45cm tall, open center. Leaves 20cm long. Wild. Seed.
- PI 508865 donor id: 34. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 34. locality: Route BR 116, 2km N of Vacaria, Rio Grande do Sul. remarks: Plants abundant, compressum type, 75cm tall, blue-green color. Basal leaves flattened. Wild. Seed.
- PI 508866 donor id: 36. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 36. locality: Route BR 116, 2km N of Vacaria, Rio Grande do Sul. remarks: Plant stemy type, small. Leaves 15-20cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508867 donor id: 40. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 40. locality: Route BR 116, 2km N of Vacaria, Rio Grande do Sul. remarks: Plants small. Leaves 30-45cm long. Inflorescences 60cm high with long racemes. Wild. Seed.
- PI 508868 donor id: 61. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 61. other id: Valls 4429. locality: Route BR 116, along Pelotis River, Santa Catarina, 20km N of Uruguay. remarks: Leaves narrow, 25cm long. Inflorescences 45cm high usually with one raceme. Wild. Seed.
- PI 508869 donor id: 75. origin: Brazil. collected: January 15, 1979. collector: B.L. Burson. collector id: 75. locality: East, 19km of Cruzeiro, Santa Catarina. remarks: Plants small. Leaves 30cm long. Inflorescences 45cm high. Wild. Seed.

PI 508860 to 508936-continued

- PI 508870 donor id: 92. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 92. locality: On road to Lages, Santa Catarina, 27km NW of Sao Jarquim. remarks: Plants leafy, pubescent. Leaves broad, 30-45cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508871 donor id: 94. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 94. locality: East, 14km of Lages, Santa Catarina. remarks: Plant stemy. Leaves narrow, 30cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508872 donor id: 95. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 95. locality: East, 14km of Lages, Santa Catarina. remarks: Leaves broad, 30-45cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508873 donor id: 97. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 97. other id: Valls 4496. locality: Route BR 116, 8km N of Lages, Santa Catarina. remarks: Plants leafy. Leaves short, 15-20cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508874 donor id: 98. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 98. other id: Valls 4497. locality: Route BR 116, 8km N of Lages, Santa Catarina. remarks: Leaves purple-green, about 30cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508875 donor id: 99. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 99. other id: Valls 4495. locality: Route BR 116, 8km N of Lages, Santa Catarina. remarks: Plants large with compressed leaves at base. Leaves bluegreen, 45cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508876 donor id: 111. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 111. other id: Valls 4516. locality: Route BR 470, 67km E of Campos Novos, Santa Catarina. remarks: Leaves 45cm long. Inflorescences 60cm high with numerous racemes. Wild. Seed.
- PI 508877 donor id: 117. origin: Brazil. collected: January 18, 1979. collector: B.L. Burson. collector id: 117. locality: Agronomy Farm, Ponto Grosso, Parana. remarks: Leaves slender, 15cm long, purple color. Stems purple color. Inflorescences 45cm high. Wild. Seed.

PI 508860 to 508936-continued

- PI 508878 **donor id:** 123. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 123. **locality:** Pasture at Agronomy Farm, Ponto Grosso, Parana. **remarks:** Leaves pubescent, 30cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508879 **donor id:** 131. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 131. **locality:** Pasture at Agronomy Farm, Ponto Grosso, Parana. **remarks:** Plants blue-green with compressed basal leaves, good appearance. Leaves 30cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508880 **donor id:** 139. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 139. **locality:** Lagoa Dourado (Yellow gold) Lake, 20km E of Ponto Grosso, Parana. **remarks:** Leaves fine, 20-25cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508881 **donor id:** 163. **origin:** Brazil. **collected:** January 20, 1979. **collector:** B.L. Burson. **collector id:** 163. **locality:** Sandy-rocky soil at a lake, 20km NE of Ponto Grosso. **remarks:** Plants blue-green. Leaves 37cm long, base compressed. Inflorescences 60cm high. Wild. Seed.
- PI 508882 **donor id:** 187. **origin:** Brazil. **collected:** January 22, 1979. **collector:** B.L. Burson. **collector id:** 187. **locality:** Dry pasture, Agronomy Experimental Farm, Guaiba, Rio Grande do Sul, 50km W of Porto Alegre. **remarks:** Plants small. Leaves slender, 25cm long. Inflorescences up to 45cm high. Wild. Seed.
- PI 508883 **donor id:** 188. **origin:** Brazil. **collected:** January 22, 1979. **collector:** B.L. Burson. **collector id:** 188. **locality:** Dry pasture, Agronomy Experimental Farm, Guaiba, Rio Grande do Sul, 50km W of Porto Alegre. **remarks:** Plants small. Leaves narrow, 25cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508884 **donor id:** 194. **origin:** Brazil. **collected:** January 22, 1979. **collector:** B.L. Burson. **collector id:** 194. **locality:** Route BR 290, 89.5km W of Porto Alegre, Rio Grande do Sul. **remarks:** Plants upright. Leaves narrow, pubescent, 25cm long. Inflorescences 45cm high with large racemes. Wild. Seed.
- PI 508885 **donor id:** 197. **origin:** Brazil. **collected:** January 22, 1979. **collector:** B.L. Burson. **collector id:** 197. **locality:** Route BR 290, 200km W of Porto Alegre. **remarks:** Plants small. Leaves narrow, 20cm long. Inflorescences 40cm high. Seed small. Wild. Seed.

PI 508860 to 508936-continued

- PI 508886 **donor id:** 198. **origin:** Brazil. **collected:** January 22, 1979. **collector:** B.L. Burson. **collector id:** 198. **locality:** Route BR 290, 46km E of Sao Gabriel, Rio Grande do Sul. **remarks:** Plants upright. Leaves blue-green, 30cm long. Inflorescences 40-45cm high. Spikelets small. Wild. Seed.
- PI 508887 **donor id:** 200. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 200. **locality:** Dry sand soil area, Route BR 290, 20km N of Sao Gabriel, Rio Grande do Sul. **remarks:** Plants leafy, good appearance. Leaves 30cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508888 **donor id:** 205. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 205. **locality:** Route BR 290, 35km W of Sao Gabriel, Rio Grande do Sul. **remarks:** Plants erect, blue-green color. Leaves 30cm long. Inflorescences 90cm high. Wild. Seed.
- PI 508889 **donor id:** 256. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 256. **locality:** North, 3km of Villa Callos Pas, Cordoba Province. **remarks:** Plants small, erect. Leaves 25cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508890 **donor id:** 266. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 266. **locality:** Rocky area, 11km E of Cosquin, Cordoba. **remarks:** Plants small with leafy base. Leaves 20-25cm high. Wild. Seed.
- PI 508891 **donor id:** 278. **origin:** Argentina. **collected:** January 29, 1979. **collector:** B.L. Burson. **collector id:** 278. **locality:** Route 1, 20km NE of Santa Fe. **remarks:** Plants slender, green. Leaves 52cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508892 **donor id:** 292. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 292. **locality:** West end of Isla el Timbo, W side of Parana River between Parana and Santa Fe. **remarks:** Plants slender. Leaves green, 45cm long. Inflorescences 25-30cm high. Anthers and stigmas purple. Wild. Seed.
- PI 508893 **donor id:** 293. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 293. **locality:** West end of Isla el Timbo, W side of Parana River between Parana and Santa Fe. **remarks:** Leaves tender, pubescent, 25-30cm long. Inflorescences 45cm high. Wild. Seed.

PI 508860 to 508936-continued

- PI 508894 **donor id:** 296. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 296. **locality:** Route 11, 35km S of Santa Fe. **remarks:** Plants slender, green type. Leaves 37cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508895 **donor id:** 297. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 297. **locality:** Route 11, 35km S of Santa Fe. **remarks:** Plants leafy. Leaves fine, 30cm long. Inflorescences 45cm high. Wild. Seed.
- PI 508896 **donor id:** 302. **origin:** Argentina. **collected:** January 30, 1979. **collector:** B.L. Burson. **collector id:** 302. **locality:** Route 11, 101km S of Santa Fe. **remarks:** Plants slender with pubescent base, blue-green color. Leaves 37cm long. Inflorescences 50cm high. Anthers yellow. Stigmas purple. Wild. Seed.
- PI 508897 **donor id:** 331. **origin:** Argentina. **collected:** February 03, 1979. **collector:** B.L. Burson. **collector id:** 331. **locality:** Dry area about 50km NW of Buenos Aires, Buenos Aires Province. **remarks:** Donated by Ing. Maschwitz. Plants small, slender, green type, 45cm tall. Spikelets more slender and longer than most types. Anthers yellow. Stigmas purple. Wild. Seed.
- PI 508898 **donor id:** 353. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 353. **locality:** Route 14, 3km from Colon, Entre Rios Province. **remarks:** Leaves pubescent, blue-green, 20cm long. Inflorescences 37cm high. Spikelets large. Anthers yellow. Stigmas purple. Wild. Seed.
- PI 508899 **donor id:** 355. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 355. **locality:** Route 14, 52km N of Colon, Entre Rios Province. **remarks:** Plants bunch type, green. Leaves thin, 25-30cm long. Inflorescences 50-60cm high. Wild. Seed.
- PI 508900 **donor id:** 360. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 360. **locality:** Ao El Palmar, 70km N of Colon, Entre Rios Province. **remarks:** Plants small. Leaves 10cm long. Inflorescences 25cm high. Anthers yellow. Stigmas yellow-white. Wild. Seed.
- PI 508901 **donor id:** 361. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 361. **locality:** Ao El Palmar, 70km N of Colon, Entre Rios Province. **remarks:** Plants tall, erect. Leaves 30cm long. Inflorescences 75cm high. Spikelets large. Wild. Seed.

PI 508860 to 508936-continued

- PI 508902 **donor id:** 363. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 363. **locality:** Rocky soil, Route 14, 9km S of Concordia, Entre Rios Province. **remarks:** Plants with leafy base. Leaves pubescent, 37cm long. Inflorescences 90cm high. Anthers yellow. Stigmas purple. Wild. Seed.
- PI 508903 **donor id:** 364. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 364. **locality:** Sandy soil, Route 14, 9km S of Concordia, Entre Rios Province. **remarks:** Plants erect. Leaves 30cm long, yellow green. Inflorescences 75cm high. Anthers yellow. Stigmas purple-white. Wild. Seed.
- PI 508904 **donor id:** 366. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 366. **locality:** North, 18km of Concordia, Entre Rios Province. **remarks:** Plants spreading, rhizomatous. Leaves green, fine, 60cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508905 **donor id:** 373. **origin:** Argentina. **collected:** February 06, 1979. **collector:** B.L. Burson. **collector id:** 373. **locality:** In sand, beside the Uruguay River, 3km E of Santa Ana, Entre Rios Province. **remarks:** Plant large, leafy clump. Leaves narrow, 60cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508906 **donor id:** 375. **origin:** Argentina. **collected:** February 06, 1979. **collector:** B.L. Burson. **collector id:** 375. **locality:** Ao Mota, 6km N of dividing line between Entre Rios and Corrientes Provinces. **remarks:** Plants small, green. Leaves narrow about 20cm long. Inflorescences 30cm high. Wild. Seed.
- PI 508907 **donor id:** 376. **origin:** Argentina. **collected:** February 06, 1979. **collector:** B.L. Burson. **collector id:** 376. **locality:** Ao Mota, 6km N of dividing line between Entre Rios and Corrientes Provinces. **remarks:** Plants tall, green. Leaves narrow, 25-30cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508908 **donor id:** 378. **origin:** Argentina. **collected:** February 06, 1979. **collector:** B.L. Burson. **collector id:** 378. **locality:** Ao Mota, 6km N of dividing line between Entre Rios and Corrientes Provinces. **remarks:** Plants erect, 90cm tall. Leaves 30-45cm long. Spikelets narrow and longer than most typical plants. Wild. Seed.

PI 508860 to 508936-continued

- PI 508909 donor id: 388. origin: Argentina. collected: February 07, 1979. collector: B.L. Burson. collector id: 388. locality: Route 23, 49km W of Mercedes, Corrientes Province. remarks: Plant leafy form. Leaves pubescent, 30cm long. Inflorescences 60cm high. Spikelets large. Wild. Seed.
- PI 508910 donor id: 401. origin: Argentina. collected: February 08, 1979. collector: B.L. Burson. collector id: 401. locality: Route 12, 22km E of Corrientes, Corrientes Province. remarks: Plants erect. Leaves green, 30-45cm long. Inflorescences 60cm high. Spikelets small, different. Anthers and stigmas purple. Wild. Seed.
- PI 508911 donor id: 407. origin: Argentina. collected: February 08, 1979. collector: B.L. Burson. collector id: 407. locality: Park, center of Itati, Corrientes Province. remarks: Plants small. Wild. Seed.
- PI 508912 donor id: 425. origin: Argentina. collected: February 09, 1979. collector: B.L. Burson. collector id: 425. locality: Route 12, 79km N of Posodas, Misiones Province. remarks: Plants with leafy base. Leaves 37cm long. Inflorescences 75cm high. Spikelets large. Wild. Seed.
- PI 508913 donor id: 452. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 452. locality: Route 1, 15km SE of Apostoles, Misiones Province. remarks: Plant has leafy base, open center. Leaves green-purple, 30cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508914 donor id: 454. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 454. locality: Route 1, 15km SE of Apostoles, Misiones Province. remarks: Plants leafy. Leaves 75cm long. Inflorescences 120cm high. Wild. Seed.
- PI 508915 donor id: 455. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 455. locality: Route 1, 15km SE of Apostoles, Misiones Province. remarks: Plant large, leafy type. Leaves fine, 0.9m long. Inflorescences 1.35m high. Wild. Seed.
- PI 508916 donor id: 456. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 456. locality: Route 1, 15km SE of Apostoles, Misiones Province. remarks: Plants small. Leaves 60cm long. Inflorescences large, 60cm high. Wild. Seed.

PI 508860 to 508936-continued

- PI 508917 donor id: 457. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 457. locality: Route 1, 15km SE of Apostoles, Misiones Province. remarks: Plants erect. Leaves 45cm long. Inflorescences 90cm high. Wild. Seed.
- PI 508918 donor id: 458. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 458. locality: Route 1, 15km SE of Apostoles, Misiones Province. remarks: Plants leafy. Leaves 30cm long. Leaf sheaths pubescent, purple. Inflorescences 45cm high. Wild. Seed.
- PI 508919 donor id: 468. origin: Argentina. collected: February 11, 1979. collector: B.L. Burson. collector id: 468. locality: Route 126, 8km E of Curuzu Cuatia, Corrientes Province. remarks: Plants small, green. Leaves narrow, 20cm long. Inflorescences 37cm high. Wild. Seed.
- PI 508920 donor id: 476. origin: Argentina. collected: February 12, 1979. collector: B.L. Burson. collector id: 476. locality: Route 1, 17km W of San Victor, Entre Rios Province. remarks: Plants erect, blue-green. Leaves pubescent, narrow, about 45cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508921 donor id: 477. origin: Argentina. collected: February 12, 1979. collector: B.L. Burson. collector id: 477. locality: Route 1, 17km W of San Victor, Entre Rios Province. remarks: Plants blue-green, erect, no pubescence. Leaves 30cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508922 donor id: 478. origin: Argentina. collected: February 12, 1979. collector: B.L. Burson. collector id: 478. locality: Route 1, 17km W of San Victor, Entre Rios Province. remarks: Plants erect. Leaves green, 30cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508923 donor id: 591. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 591. locality: On road from San Javier, 25km W of Tucuman. remarks: Plants erect. Leaves narrow, 37cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508924 donor id: 599. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 599. locality: Dique El Cadillal, N of Tucuman. remarks: Plants large, leafy, bunch, good appearing type. Leaves 75cm long. Inflorescences 105cm high. Wild. Seed.

PI 508860 to 508936-continued

- PI 508925 **donor id:** 600. **origin:** Argentina. **collected:** February 20, 1979. **collector:** B.L. Burson. **collector id:** 600. **locality:** Dique El Cadillal, N of Tucuman. **remarks:** Plants small, bunch type. Leaves 30cm long. Inflorescences 45-60cm high. Wild. Seed.
- PI 508926 **donor id:** 612. **origin:** Argentina. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 612. **locality:** Route 9, 4km NW of Salta, Salta Province. **remarks:** Plants small, bunch type. Leaves narrow, 20-25cm long. Inflorescences 50cm high. Wild. Seed.
- PI 508927 **donor id:** 615. **origin:** Argentina. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 615. **locality:** Route 9, 4km NW of Salta, Salta Province. **remarks:** Plants small. Leaves narrow, 25cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508928 **donor id:** 616. **origin:** Argentina. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 616. **locality:** Route 9, 4km NW of Salta, Salta Province. **remarks:** Plants bunch type. Leaves narrow, 37-45cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508929 **donor id:** 617. **origin:** Argentina. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 617. **locality:** Route 9, 4km NW of Salta, Salta Province. **remarks:** Plants bunch type. Leaves very narrow, 30-37cm long. Inflorescences 90cm high. Wild. Seed.
- PI 508930 **donor id:** 625. **origin:** Argentina. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 625. **locality:** North, 3km of Jujuy, Jujuy Province. **remarks:** Leaves narrow, pubescent, 20cm long. Inflorescences 50cm high. Wild. Seed.
- PI 508931 **donor id:** 627. **origin:** Argentina. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 627. **locality:** Route 9, 33km N of Jujuy, Jujuy Province. **remarks:** Plants small, purple coloration, open center, bunch type. Leaves 25cm long. Inflorescences 60cm high. Anthers yellow. Stigmas purple. Wild. Seed.
- PI 508932 **donor id:** 631. **origin:** Bolivia. **collected:** February 23, 1979. **collector:** B.L. Burson. **collector id:** 631. **locality:** West, 22km of Tarija, Tarija Department. **remarks:** Plants purple color, small, bunch type. Leaves 15cm long. Inflorescences 37cm high. Wild. Seed.

PI 508860 to 508936-continued

- PI 508933 donor id: 635. origin: Bolivia. collected: February 23, 1979. collector: B.L. Burson. collector id: 635. locality: Near El Victoria, about 10km W of Tarija, Tarija Department. remarks: Plants bunch type. Leaves pubescent, 30cm long. Inflorescences 60-75cm high. Wild. Seed.
- PI 508934 donor id: 645. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 645. locality: East, 35km of Tarija, Tarija Department. remarks: Plants small, bunch type. Leaves pubescent, 15cm long. Spikelets purple, 25-40cm high. Anthers yellow. Stigmas purple. Wild. Seed.
- PI 508935 donor id: 660. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 660. locality: West, 19km of Entre Rios, Tarija Department. remarks: Plants bunch type. Leaves 30-45cm long. Inflorescences 75cm high. Wild. Seed.
- PI 508936 donor id: 670. origin: Bolivia. collected: February 25, 1979. collector: B.L. Burson. collector id: 670. locality: North, 83km of Villa Montes, Tarija Department. remarks: Plants leafy, bunch type. Leaves 90cm long. Inflorescences 120cm high. Wild. Seed.

PI 508937 to 508938. *Paspalum proliferum* Arech. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508937 donor id: 472. origin: Argentina. collected: February 11, 1979. collector: B.L. Burson. collector id: 472. locality: Railroad crossing on Route 126, 20km W of Curuzu Cuatia, Corrientes Province. remarks: Plants upright, spreading, stoloniferous. Leaves fine. Inflorescences 45-60cm high. Spikelets somewhat circular. Wild. Seed.
- PI 508938 donor id: 488. origin: Argentina. collected: February 12, 1979. collector: B.L. Burson. collector id: 488. locality: Route 1, 9km W of S.I.D. Feliciano, Entre Rios Province. remarks: Plants semiprostrate. Stems pubescent. Leaves 45cm long. Inflorescences 60cm high. Wild. Seed.

PI 508939 to 508941. *Paspalum pumilum* Nees POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508939 **donor id:** 62. **origin:** Brazil. **collected:** January 14, 1979. **collector:** B.L. Burson. **collector id:** 62. **other id:** Valls 4433. **locality:** Rock outcroppings, south edge of Lages, Santa Catarina. **remarks:** Plants low growing. Leaves flat to ground. Inflorescences 7.5-10cm high. Anthers and stigmas purple. Wild. Seed.
- PI 508940 **donor id:** 154. **origin:** Brazil. **collected:** January 19, 1979. **collector:** B.L. Burson. **collector id:** 154. **locality:** Route BR 373, 130km W of Ponto Grosso, Parana. **remarks:** Plants more upright than most. Leaves 12cm long. Inflorescences 25cm high. Wild. Seed.
- PI 508941 **donor id:** 370. **origin:** Brazil. **collected:** February 06, 1979. **collector:** B.L. Burson. **collector id:** 370. **locality:** Grazed area, 1 km W of Santa Ana, 19km N of Federacion, Entre Rios Province. **remarks:** Plants small, low growing. Inflorescences 20-25cm high. Anthers yellow. Stigmas purple. Wild. Seed.

PI 508942 to 508947. *Paspalum quadrifarium* Lam. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508942 **donor id:** 348. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 348. **locality:** Route 14, 16km N of Concepcion del Uruguay, Entre Rios Province. **remarks:** Plants erect, bunch type. Leaves 0.6m long. Inflorescences 1.8m high. Wild. Seed.
- PI 508943 **donor id:** 351. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 351. **locality:** North, 24km of Concepcion del Uruguay, Entre Rios Province. **remarks:** Plants large, robust. Leaves lax, 0.6-0.9m long. Inflorescences 1.2-1.5m high. Spikelets small. Wild. Seed.
- PI 508944 **donor id:** 354. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 354. **locality:** Route 14, 31km N of Colon, Entre Rios Province. **remarks:** Plants robust, leafy, 1.8m tall. Leaves 0.75m long. Wild. Seed.

PI 508942 to 508947-continued

PI 508945 **donor id:** 367. **origin:** Argentina. **collected:** February 05, 1979. **collector:** B.L. Burson. **collector id:** 367. **locality:** Along Uruguay River, Salto Grande, Entre Rios Province, NE of Concordia. **remarks:** Plants large, robust. Leaves 0.6m long. Inflorescences 1.0m high. Wild. Seed.

PI 508946 **donor id:** 547. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 547. **locality:** Route 2, 33km S of Chascomas, Buenos Aires Province. **remarks:** Plants robust, bunch type. Leaves blue-green, 0.9m long, lax. Inflorescences 1.2-1.5m high. Wild. Seed.

PI 508947 **donor id:** 552. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 552. **locality:** Route 41, General Belgrano, Buenos Aires Province. **remarks:** Plants robust, bunch type. Leaves 0.9m long. Inflorescences 1.2-1.5m high. Wild. Seed.

PI 508948. *Paspalum ramboi* Barreto POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 11. **origin:** Brazil. **origin institute:** Facultad Agronomia, Porto Alegre. **collected:** January 12, 1979. **collector:** B.L. Burson. **collector id:** 11. **locality:** Nursery. **remarks:** Leaves conduplicate. Inflorescences 30cm high. Grows in low, wet area. Cultivated. Seed.

PI 508949 to 508954. *Paspalum remotum* Remy POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508949 **donor id:** 613. **origin:** Argentina. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 613. **locality:** Route 9, 4km NW of Salta, Salta Province. **remarks:** Plants small. Leaves 10-12cm long, 30cm up stem. Inflorescences 60cm high. Rachis wide. Spikelets longer than wide. Wild. Seed.

PI 508949 to 508954-continued

- PI 508950 donor id: 614. origin: Argentina. collected: February 21, 1979. collector: B.L. Burson. collector id: 614. locality: Route 9, 4km NW of Salta, Salta Province. remarks: Plants erect. Leaves 30-45cm long. Inflorescences 75 to 120cm high with 6 to 8 racemes. Spikelets purple. Wild. Seed.
- PI 508951 donor id: 619. origin: Argentina. collected: February 21, 1979. collector: B.L. Burson. collector id: 619. locality: Route 9, 6km NW of Salta, Salta Province. remarks: Plants bunch type. Leaves 45cm long. Inflorescences 105cm high. Spikelets purple. Wild. Seed.
- PI 508952 donor id: 628. origin: Bolivia. collected: February 22, 1979. collector: B.L. Burson. collector id: 628. locality: North, 45km of Villiazon, Tarija Department. remarks: Plants semi-decumbent. Leaves 30cm long. Inflorescences lax, 75cm high. Wild. Seed.
- PI 508953 donor id: 629. origin: Bolivia. collected: February 22, 1979. collector: B.L. Burson. collector id: 629. locality: North, 47km of Villiazon, Tarija Department. remarks: Plants semi-prostrate. Leaves 45cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508954 donor id: 647. origin: Bolivia. collected: February 24, 1979. collector: B.L. Burson. collector id: 647. locality: East, 49km of Tarija, Tarija Department. remarks: Plants small. Leaves 10cm long. Inflorescences 30cm high. Wild. Seed.

PI 508955. *Paspalum rufum* Nees ex Steud. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1987.

donor id: 389. origin: Argentina. collected: February 07, 1979. collector: B.L. Burson. collector id: 389. locality: Corrientes River bridge on Route 23, W of Mercedes. remarks: Plants large, robust. Leaves coarse, 1.2-1.5m long. Inflorescences 1.8-2.1m high. Wild. Seed.

PI 508956 to 508961. *Paspalum simplex* Morong POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 508956 **donor id:** 398. **origin:** Argentina. **collected:** February 08, 1979. **collector:** B.L. Burson. **collector id:** 398. **locality:** In rocks by Parana River at Molina Punta, about 12km NE of Corrientes. **remarks:** Plants erect. Leaves 20-30cm long. Inflorescences 45-75cm high. Spikelets purple. Wild. Seed.
- PI 508957 **donor id:** 399. **origin:** Argentina. **collected:** February 08, 1979. **collector:** B.L. Burson. **collector id:** 399. **locality:** In rocks by Parana River at Molina Punta, about 12km NE of Corrientes. **remarks:** Plants similar but larger than PI 508956. Leaves 45-60cm long. Inflorescences 120cm high. Wild. Seed.
- PI 508958 **donor id:** 400. **origin:** Argentina. **collected:** February 08, 1979. **collector:** B.L. Burson. **collector id:** 400. **locality:** In rocks by Parana River at Molina Punta, about 12km NE of Corrientes. **remarks:** Plants erect, 1.0-1.2m tall, leafy at base. Spikelets purple. Wild. Seed.
- PI 508959 **donor id:** 479. **origin:** Argentina. **collected:** February 12, 1979. **collector:** B.L. Burson. **collector id:** 479. **locality:** Route 1, 14km E of La Paz, Entre Rios Province. **remarks:** Plants bunch type. Leaves thin, 45cm long. Inflorescences 75cm high. Spikelets purple. Wild. Seed.
- PI 508960 **donor id:** 569. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 569. **locality:** Dry area, Route 34, 87km W of Ceres, Santa Fe Province. **remarks:** Plants erect, bunch type. Leaves 30cm long. Leaf sheaths pubescent. Inflorescences 45-60cm high. Anthers yellow. Stigmas purple. Wild. Seed.
- PI 508961 **donor id:** 577. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 577. **locality:** Route 34, 60km NW of Santiago del Estero, Santiago del Estero Province. **remarks:** Plants erect. Leaves 25-35cm long. Leaf margins and sheaths pubescent. Spikelets purple. Wild. Seed.

PI 508962 to 508994. *Paspalum* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 508962 to 508994-continued

- PI 508962 donor id: 85. origin: Brazil. collected: January 15, 1979. collector: B.L. Burson. collector id: 85. other id: Valls 4483. locality: West, 4km of Bom Jargin da Serra, Santa Catarina. remarks: Plants large, bunch type. Leaves coarse, 1.2m long. Inflorescences 2.1m high. Wild. Seed.
- PI 508963 donor id: 113. origin: Brazil. collected: January 16, 1979. collector: B.L. Burson. collector id: 113. locality: Route BR 470, 20km E of Campos Novos, Santa Catarina. remarks: Plants bunch type. Leaves erect, 30-45cm long. Inflorescences 120cm high. Wild. Seed.
- PI 508964 donor id: 134. origin: Brazil. collected: January 18, 1979. collector: B.L. Burson. collector id: 134. locality: Lagoa Dourado (Yellow Gold) Lake, 20km E of Ponto Grosso, Parana. remarks: Plants upright. Inflorescences 90cm high with wide purple rachis and 5-10 racemes each. Spikelets pubescent. Wild. Seed.
- PI 508965 donor id: 138. origin: Brazil. collected: January 18, 1979. collector: B.L. Burson. collector id: 138. locality: Low wet area, Lagoa Dourado (Yellow Gold) Lake, 20km E of Ponto Grosso, Parana. remarks: Plants large, robust. Leaves 1.2m long. Inflorescences open, 5-7 racemes, 1.8m high. Spikelets purple. Wild. Seed.
- PI 508966 donor id: 156. origin: Brazil. collected: January 19, 1979. collector: B.L. Burson. collector id: 156. locality: Open sun, Route BR 373, 115km W of Ponto Grosso. remarks: Plants upright. Leaves broad, 45cm long. Inflorescences 90cm high with many long racemes. Wild. Seed.
- PI 508967 donor id: 239. origin: Argentina. collected: January 27, 1979. collector: B.L. Burson. collector id: 239. locality: Route 8, 18km W of Venado Tuerto, Santa Fe Province. remarks: Plants robust, bluegreen, bunch type. Leaves 0.9m long. Inflorescences 1.5m high. Wild. Seed.
- PI 508968 donor id: 253. origin: Argentina. collected: January 27, 1979. collector: B.L. Burson. collector id: 253. locality: Route 9, 39km SE of Cordoba. remarks: Plants large, robust. Leaves bluegreen, 1.5m long. Inflorescences 2.1m high. Spikelets small, pointed. Wild. Seed.

PI 508962 to 508994-continued

- PI 508969 donor id: 286. origin: Argentina. collected: January 29, 1979. collector: B.L. Burson. collector id: 286. locality: West, 10km of Nare, Santa Fe Province. remarks: Plants robust. Leaves coarse, 1.2m long, bluegreen. Inflorescences 1.5-1.8m high. Spikelets small. Wild. Seed.
- PI 508970 donor id: 305. origin: Argentina. collected: January 31, 1979. collector: B.L. Burson. collector id: 305. locality: Route 9, 49km S of San Nicolas, Buenos Aires Province. remarks: Plants robust, bunch type. Leaves coarse, bluegreen, 0.9- 1.2m long. Inflorescences 1.5m high. Spikelets glabrous. Wild. Seed.
- PI 508971 donor id: 322. origin: Argentina. origin institute: Facultad de Agronomia, Univ. of Buenos Aires, Buenos Aires. collected: January 31, 1979. collector: B.L. Burson. collector id: 322. locality: Parodi's old garden. remarks: Plants coarse, bunch type, 1.8m tall. Leaves 1.2m long. Wild. Seed.
- PI 508972 donor id: 323. origin: Argentina. origin institute: Facultad de Agronomia, Univ. of Buenos Aires, Buenos Aires. collected: January 31, 1979. collector: B.L. Burson. collector id: 323. locality: Parodi's old garden. remarks: Plants bunch type. Leaves coarse, 0.75cm long, lax. Inflorescences 1.2m high. Wild. Seed.
- PI 508973 donor id: 324. origin: Argentina. origin institute: Facultad de Agronomia, Univ. of Buenos Aires, Buenos Aires. collected: January 31, 1979. collector: B.L. Burson. collector id: 324. locality: Parodi's old garden. remarks: Plants bunch type. Leaves coarse, 0.9m long, lax. Inflorescences 1.5m high. Wild. Seed.
- PI 508974 donor id: 325. origin: Argentina. origin institute: Facultad de Agronomia, Univ. of Buenos Aires, Buenos Aires. collected: January 31, 1979. collector: B.L. Burson. collector id: 325. locality: Parodi's old garden. remarks: Plants erect, bunch type. Leaves coarse, 0.6m long. Inflorescences 1.2m high. Wild. Seed.
- PI 508975 donor id: 326. origin: Argentina. origin institute: Facultad de Agronomia, Univ. of Buenos Aires, Buenos Aires. collected: January 31, 1979. collector: B.L. Burson. collector id: 326. locality: Parodi's old garden. remarks: Plants erect, bunch type. Leaves bluegreen, 0.9m long. Inflorescences 1.2m high. Wild. Seed.

PI 508962 to 508994-continued

- PI 508976 **donor id:** 327. **origin:** Argentina. **origin institute:** Facultad de Agronomia, Univ. of Buenos Aires, Buenos Aires. **collected:** January 31, 1979. **collector:** B.L. Burson. **collector id:** 327. **locality:** Parodi's old garden. **remarks:** Plants erect, bunch type. Leaves coarse, 0.9m long. Inflorescences 1.5m high. Wild. Seed.
- PI 508977 **donor id:** 335. **origin:** Argentina. **collected:** February 04, 1979. **collector:** B.L. Burson. **collector id:** 355. **locality:** Route 12, 22km N of bridge over Rio Parana de las Palmas. **remarks:** Plants extremely large, robust. Leaves coarse, 1.8m long. Inflorescences 3-3.6m high. Wild. Seed.
- PI 508978 **donor id:** 336. **origin:** Argentina. **collected:** February 04, 1979. **collector:** B.L. Burson. **collector id:** 336. **locality:** Route 12, 22km N of bridge over Rio Parana de las Palmas. **remarks:** Plants large, robust, with coarse stems about 2.4m tall. Wild. Seed.
- PI 508979 **donor id:** 337. **origin:** Argentina. **collected:** February 04, 1979. **collector:** B.L. Burson. **collector id:** 337. **locality:** Route 12, 25km N of bridge over Rio Parana de las Palmas, Buenos Aires Province. **remarks:** Plants large, robust. Leaves coarse, 1.5m long. Inflorescences 3.0m high. Wild. Seed.
- PI 508980 **donor id:** 340. **origin:** Argentina. **collected:** February 04, 1979. **collector:** B.L. Burson. **collector id:** 340. **locality:** Route 12 at bridge over Rio Parana de las Palmas, Buenos Aires Province. **remarks:** Plants large, robust, bunch type. Leaves 1.5m long. Inflorescences 1.8m high. Wild. Seed.
- PI 508981 **donor id:** 344. **origin:** Argentina. **collected:** February 04, 1979. **collector:** B.L. Burson. **collector id:** 344. **locality:** Route 12, 172km N of Parana River, Entre Rios Province. **remarks:** Plants bunch type. Leaves coarse, narrow, 60cm long. Inflorescences 90cm high. Wild. Seed.
- PI 508982 **donor id:** 345. **origin:** Argentina. **collected:** February 04, 1979. **collector:** B.L. Burson. **collector id:** 345. **locality:** Route 12, 172km N of Parana River, Entre Rios Province. **remarks:** Plants similar to PI 508981 but smaller form. Leaves 30-45cm long. Inflorescences 60cm high. Wild. Seed.

PI 508962 to 508994-continued

- PI 508983 donor id: 346. origin: Argentina. collected: February 04, 1979. collector: B.L. Burson. collector id: 346. locality: Route 12, 172km N of Parana River, Entre Rios Province. remarks: Plants bunch type. Leaves coarse, 60cm long. Inflorescences 90cm high. Wild. Seed.
- PI 508984 donor id: 409. origin: Argentina. collected: February 08, 1979. collector: B.L. Burson. collector id: 409. locality: Route 12, 53km E of road to Itati, Corrientes Province. remarks: Plants robust. Leaves 45-60cm long. Inflorescences 90-150cm high. Wild. Seed.
- PI 508985 donor id: 410. origin: Argentina. collected: February 08, 1979. collector: B.L. Burson. collector id: 410. locality: Route 12, 90km E of road to Itati, Corrientes Province. remarks: Plants variegated group, robust with coarse leaves. Leaves 1.2-1.5m high. Inflorescences 2.1-2.4m high. Spikelets purplish. Wild. Seed.
- PI 508986 donor id: 430. origin: Argentina. collected: February 09, 1979. collector: B.L. Burson. collector id: 430. locality: Beside the Parana River in Puerto Rico, Misiones Province. remarks: Plants semi-prostrate. Leaves prostrate to ground. Inflorescences 45cm high. Spikelets small. Wild. Seed.
- PI 508987 donor id: 432. origin: Argentina. collected: February 09, 1979. collector: B.L. Burson. collector id: 432. locality: Beside the Parana River in Puerto Rico, Misiones Province. remarks: Plants robust, leafy, variegated group. Leaves coarse, 0.9m long. Inflorescences 1.2m high. Spikelets purple, more pointed than *P. conspersum*. Wild. Seed.
- PI 508988 donor id: 439. origin: Argentina. collected: February 09, 1979. collector: B.L. Burson. collector id: 439. locality: By Parana River at Montecarlo, Misiones Province. remarks: Plants robust with open center. Leaves bluegreen, 0.9m long. Inflorescences 1.2-1.5m high. Spikelets pointed. Wild. Seed.
- PI 508989 donor id: 450. origin: Argentina. collected: February 10, 1979. collector: B.L. Burson. collector id: 450. locality: South, 24km of Posades on Route 1, Misiones Province. remarks: Plants dead, bunch type. Leaves small, slender, 30cm long. Inflorescences 60cm high, 6-7 racemes each. Wild. Seed.

PI 508962 to 508994-continued

- PI 508990 **donor id:** 485. **origin:** Argentina. **collected:** February 12, 1979. **collector:** B.L. Burson. **collector id:** 485. **locality:** At Ao De Los Pozos, 79km S of La Paz. **remarks:** Plants robust. Leaves green-grey, 0.9m long. Inflorescences 1.5m high. Wild. Seed.
- PI 508991 **donor id:** 623. **origin:** Argentina. **collected:** February 21, 1979. **collector:** B.L. Burson. **collector id:** 623. **locality:** Grazed, high elevation area, 3km NW of Jujuy, Jujuy Province. **remarks:** Plants low growing. Leaves 30cm long. Inflorescences 60cm high. Wild. Seed.
- PI 508992 **donor id:** 638. **origin:** Argentina. **collected:** February 23, 1979. **collector:** B.L. Burson. **collector id:** 638. **locality:** Grazed, high elevation area, 3km NW of Jujuy, Jujuy Province. **remarks:** Plants small, bunch type. Leaves 20-25cm long. Inflorescence 35cm high, single raceme. Spikelets white, pubescent. Wild. Seed.
- PI 508993 **donor id:** 662. **origin:** Bolivia. **collected:** February 24, 1979. **collector:** B.L. Burson. **collector id:** 662. **locality:** West, 19km of Entre Rios, Tarija Department. **remarks:** Plants small, spreading. Leaves 30-60cm long. Spikelets white. Wild. Seed.
- PI 508994 **donor id:** 666. **origin:** Bolivia. **collected:** February 25, 1979. **collector:** B.L. Burson. **collector id:** 666. **locality:** East, 63km of Palos Blancos, Tarija Department. **remarks:** Leaves 3.7-5.0cm wide, 90cm long. Inflorescences 120-150cm high, with many racemes. Wild. Seed.

PI 508995. *Paspalum stellatum* Humb. & Bonpl. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 371. **origin:** Argentina. **collected:** February 06, 1979. **collector:** B.L. Burson. **collector id:** 371. **locality:** Sandy soil beside the Uruguay River, 3km E of Santa Ana, Entre Rios Province. **remarks:** Plants short, bunch type. Leaves pubescent, 25cm long. Inflorescences 45cm high, one or two racemes each. Rachis wide, purple. Wild. Seed.

PI 508996 to 509007. *Paspalum unispicatum* (Scribn. & Merr.) Nash
POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab.,
USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:**
Received through 1979 USDA-ARS sponsored plant exploration to South
America. Received October 1987.

- PI 508996 **donor id:** 301. **origin:** Argentina. **collected:** January
30, 1979. **collector:** B.L. Burson. **collector id:** 301.
locality: Route 11 at Arocena, 67km S of Santa Fe, Santa
Fe Province. **remarks:** Plants upright. Leaves 30cm long.
Inflorescences 45cm high. Wild. Seed.
- PI 508997 **donor id:** 395. **origin:** Argentina. **collected:** February
08, 1979. **collector:** B.L. Burson. **collector id:** 395.
locality: In front of Club Adm. General de Puertos beside
Parana River, Corrientes. **remarks:** Plants clipped, short
rhizomes. Leaves 20-25cm long, with pubescence around
margins. Inflorescences 30-37cm high. Wild. Seed.
- PI 508998 **donor id:** 473. **origin:** Argentina. **collected:** February
12, 1979. **collector:** B.L. Burson. **collector id:** 473.
locality: Route 1, 9km W of S.I.D. Feliciano, Entre Rios
Province. **remarks:** Plants erect, spreading, rhizomatous.
Leaves 30cm long. Inflorescences 45-60cm high. Wild.
Seed.
- PI 508999 **donor id:** 474. **origin:** Argentina. **collected:** February
12, 1979. **collector:** B.L. Burson. **collector id:** 474.
locality: Route 1, 22km W of S.I.D. Feliciano, Entre Rios
Province. **remarks:** Plants vigorous, rhizomatous. Leaves
45cm long. Inflorescences 60cm high. Wild. Seed.
- PI 509000 **donor id:** 481. **origin:** Argentina. **collected:** February
12, 1979. **collector:** B.L. Burson. **collector id:** 481.
locality: Edge of bluff above Parana River in La Paz,
Entre Rios Province. **remarks:** Plants leafy. Leaves
30-45cm long. Inflorescences 60cm high. Wild. Seed.
- PI 509001 **donor id:** 483. **origin:** Argentina. **collected:** February
12, 1979. **collector:** B.L. Burson. **collector id:** 483.
locality: Route 126, 10km S of La Paz, Entre Rios
Province. **remarks:** Leaves rolled, no pubescence on
margins, 30cm long. Inflorescences 45cm high. Wild.
Seed.
- PI 509002 **donor id:** 486. **origin:** Argentina. **collected:** February
12, 1979. **collector:** B.L. Burson. **collector id:** 486.
locality: At Ao De Los Pozos, 79km S of La Paz. **remarks:**
Plants erect, spreading, rhizomatous. Leaves 30cm long.
Inflorescences 45cm high. Wild. Plant.

PI 508996 to 509007-continued

- PI 509003 donor id: 584. origin: Argentina. collected: February 19, 1979. collector: B.L. Burson. collector id: 584. locality: Route 9, 11km E of Los Puestos, Tucuman Province. remarks: Leaves pubescent. Anthers bluish-white. Stigmas white. Wild. Seed.
- PI 509004 donor id: 609. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 609. locality: Route 34, 47km N of Metan, Salta Province. remarks: Plants leafy, spread over large area. Leaves and inflorescences 60cm high. Wild. Seed.
- PI 509005 donor id: 610. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 610. locality: Route 34, 82km N of Metan, Salta Province. remarks: Plants spreading, rhizomatous. Leaves pubescent, 30-45cm long. Inflorescences 45-60cm high. Wild. Seed.
- PI 509006 donor id: 611. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 611. locality: Route 34, 82km N of Metan, Salta Province. remarks: Plants pubescent. Leaves and inflorescences 30-37cm high. Wild. Seed.
- PI 509007 donor id: 621. origin: Argentina. collected: February 21, 1979. collector: B.L. Burson. collector id: 621. locality: Route 9, 6km NW of Salta, Salta Province. remarks: Plants leafy, spreading, rhizomatous. Leaves 30cm long. Inflorescences 40-45cm high. Wild. Seed.

PI 509008 to 509017. *Paspalum urvillei* Steud. POACEAE Vaseygrass

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 509008 donor id: 18. origin: Brazil. collected: January 13, 1979. collector: B.L. Burson. collector id: 18. locality: Ivoti, Cascata de Sao Miguez, Rio Grande do Sul, about 45km N of Porto Alegre. remarks: Plants intermediate vasey grass/dallisgrass type. Stems fine. Leaves fine, 0.9m long. Inflorescences open, 1.95m high. Spikelets purple. Anthers yellow. Wild. Seed.
- PI 509009 donor id: 21. origin: Brazil. collected: January 13, 1979. collector: B.L. Burson. collector id: 21. locality: Route BR 116, 3km S of Canais do Sul, Rio Grand do Sul. remarks: Plants upright. Leaves lax, 1.2m long. Inflorescences open, 1.8m high. Wild. Seed.

PI 509008 to 509017-continued

- PI 509010 donor id: 48. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 48. locality: Route BR 116, 6km N of Pelotas River (Uruguay River), Santa Catarina. remarks: Plants robust, intermediate between *P. urvillei* and *P. dilatatum*, 2.1m tall. Leaves 0.9m long. Wild. Seed.
- PI 509011 donor id: 114. origin: Brazil. collected: January 17, 1979. collector: B.L. Burson. collector id: 114. locality: Route BR 116, 57km N into State of Parana. remarks: Leaves narrow, 0.6m long. Inflorescences 1.2m high. Wild. Seed.
- PI 509012 donor id: 228. origin: Brazil. collected: January 26, 1979. collector: B.L. Burson. collector id: 228. locality: Route 8, 162km W of Buenos Aires. remarks: Plants upright, in area where dallisgrass occurs. Leaves 0.9m long. Inflorescences 1.5m high. Wild. Seed.
- PI 509013 donor id: 245. origin: Brazil. collected: January 27, 1979. collector: B.L. Burson. collector id: 245. locality: Villa Nueva, 3km S of Villa Maria, Cordoba Province. remarks: Plants robust. Leaves 0.9m long. Inflorescences 1.5m high. Spikelets small. Wild. Seed.
- PI 509014 donor id: 249. origin: Brazil. collected: January 27, 1979. collector: B.L. Burson. collector id: 249. locality: Route 9, 8km NW of Olivia, Cordoba Province. remarks: Plants erect, leafy. Leaves 0.9m long. Inflorescences open, 1.5m high. Wild. Seed.
- PI 509015 donor id: 273. origin: Brazil. collected: January 28, 1979. collector: B.L. Burson. collector id: 273. locality: Route 19, E edge of Arroyito, Cordoba Province. remarks: Plants robust, leafy. Leaves 0.75m long. Inflorescences 1.8m high. Wild. Seed.
- PI 509016 donor id: 338. origin: Brazil. collected: February 04, 1979. collector: B.L. Burson. collector id: 338. locality: Route 12 at bridge over Rio Parana, Buenos Aires Province. remarks: Leaves lax, 0.9m long. Inflorescences open, 1.2m high. Wild. Seed.
- PI 509017 donor id: 667. origin: Bolivia. collected: February 25, 1979. collector: B.L. Burson. collector id: 667. locality: North, 32km of Villa Montes, Tarija Department. remarks: Plants small. Stems slender. Leaves 25cm long. Inflorescences 75cm high. Wild. Seed.

PI 509018 to 509023. *Paspalum vaginatum* Swartz POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 509018 **donor id:** 230. **origin:** Argentina. **collected:** January 26, 1979. **collector:** B.L. Burson. **collector id:** 230. **locality:** Route 8 at Ao del Pueblo, 177km NW of Buenos Aires. **remarks:** Plants 7.5-10cm tall, form thick turf. Wild. Seed.
- PI 509019 **donor id:** 284. **origin:** Argentina. **collected:** January 29, 1979. **collector:** B.L. Burson. **collector id:** 284. **locality:** Route 1, 62km NE of Santa Fe. **remarks:** Plants vigorous forming dense turf. Leaves 25cm long. Inflorescences 30cm high. Wild. Seed.
- PI 509020 **donor id:** 329. **origin:** Argentina. **collected:** February 03, 1979. **collector:** B.L. Burson. **collector id:** 329. **locality:** Dique Lujan, about 50km NW of Buenos Aires, Buenos Aires Province. **remarks:** Plants spreading, 7.5cm tall, growing heavy shade exposed to traffic, potential turf type. Leaves fine. Wild. Seed.
- PI 509021 **donor id:** 342. **origin:** Argentina. **collected:** February 04, 1979. **collector:** B.L. Burson. **collector id:** 342. **locality:** Route 12, 53km N of Parana River bridge, Entre Rios Province. **remarks:** Plants formed very dense turf in pasture, color good. Leaves fine, 7.5-10cm long. Wild. Seed.
- PI 509022 **donor id:** 540. **origin:** Argentina. **collected:** February 16, 1979. **collector:** B.L. Burson. **collector id:** 540. **locality:** Very salty area along Route 2 at Rio Samborombon, 55km S of La Plata, Buenos Aires Province. **remarks:** Plants spreading, stoloniferous, form good turf. Leaves fine, 12.5-15cm long. Inflorescences 15-20cm high. Wild. Seed.
- PI 509023 **donor id:** 544. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 544. **locality:** East edge of Chascomus, Buenos Aires Province. **remarks:** Plants spreading, rhizomatous, typical type. Leaves fine, 15-20cm long. Inflorescences 15-20cm high. Racemes 3 to 6 or 7 per inflorescence. Wild. Seed.

PI 509024 to 509025. *Paspalum yaguaronense* Henr. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 509024 **donor id:** 143. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 143. **locality:** Along side of Papagaios River, 55km E of Ponto Grosso. **remarks:** Plants upright. Leaves slender. Inflorescences 1.2m high. Wild. Seed.

PI 509025 **donor id:** 218. **origin:** Brazil. **collected:** January 23, 1979. **collector:** B.L. Burson. **collector id:** 218. **locality:** Route BR 290, 20km E of Alegrete, Rio Grande do Sul. **remarks:** Plants bunch type, fairly abundant. Leaves 45cm long. Inflorescences 90cm high. Wild. Plant.

PI 509026 to 509027. *Phalaris* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 509026 **donor id:** 232. **origin:** Argentina. **collected:** January 26, 1979. **collector:** B.L. Burson. **collector id:** 232. **locality:** Route 8, 234km NW of Buenos Aires. **remarks:** Plants robust, bunch type. Leaves and inflorescences 0.9m high. Wild. Seed.

PI 509027 **donor id:** 557. **origin:** Argentina. **collected:** February 17, 1979. **collector:** B.L. Burson. **collector id:** 557. **locality:** West, 10km of General Belgrano, Buenos Aires Province. **remarks:** Plants erect. Leaves 0.6m tall. Inflorescences 1.2m high. Wild. Seed.

PI 509028. *Poiretia latifolia* J. Vogel FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 125. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 125. **locality:** Pasture at Agronomy Farm, Ponto Grosso, Parana. **remarks:** Plants leafy, shrub, 45cm tall. Flowers yellow. Wild. Seed.

PI 509029. *Rottboellia selloana* Hackel POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 110. **origin:** Brazil. **collected:** January 16, 1979. **collector:** B.L. Burson. **collector id:** 110.
locality: Route BR 470, 67km E of Campos Novos, Santa Catarina. **remarks:** Plants small. Leaves 0.3m long. Inflorescences 0.5m tall, spike type. Wild. Seed.

PI 509030. *Senna occidentalis* (L.) Link FABACEAE Coffee senna

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 282. **origin:** Argentina. **collected:** January 29, 1979. **collector:** B.L. Burson. **collector id:** 282.
locality: Route 1, 51km NE of Santa Fe. **remarks:** Shrub leafy, to 0.6m tall. Flowers yellow. Wild. Seed.

PI 509031 to 509036. *Setaria* sp. POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 509031 **donor id:** 242. **origin:** Argentina. **collected:** January 27, 1979. **collector:** B.L. Burson. **collector id:** 242.
locality: Route 8, 132km W of Venado Tuerto, Cordoba Province. **remarks:** Plants robust, large, leafy. Leaves 0.9m long. Inflorescences 1.2m high. Wild. Seed.

PI 509032 **donor id:** 571. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 571.
locality: Route 34, 2km SE of Icano, Santiago del Estero Province. **remarks:** Plants leafy, good appearance. Leaves 60cm long. Inflorescences 75cm high. Wild. Seed.

PI 509033 **donor id:** 576. **origin:** Argentina. **collected:** February 19, 1979. **collector:** B.L. Burson. **collector id:** 576.
locality: Route 34, 60km NW of Santiago del Estero, Santiago del Estero Province. **remarks:** Plants robust, upright, leafy, bunch type. Leaves 1.0m long. Inflorescences 1.5m high. Wild. Seed.

PI 509031 to 509036-continued

- PI 509034 donor id: 594. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 594. locality: Route 9, 13km N of Tucuman. remarks: Plants leafy. Leaves 0.9-1.2m long. Inflorescences 1.2-1.5m high. Wild. Seed.
- PI 509035 donor id: 604. origin: Argentina. collected: February 20, 1979. collector: B.L. Burson. collector id: 604. locality: Route 55, 42km N of the boundry line between Tucuman and Salta Provinces. remarks: Plants leafy, bunch type. Leaves 60-75cm long. Inflorescences 1.0m high. Wild. Seed.
- PI 509036 donor id: 678. origin: Bolivia. collected: February 26, 1979. collector: B.L. Burson. collector id: 678. locality: Dry area, 44km E of Boyiube, Tarija Department. remarks: Plants leafy, bunch type. Leaves 30-45cm long. Inflorescences 45-60cm high. Wild. Seed.

PI 509037 to 509039. *Stenotaphrum secundatum* (Walter) Kuntze POACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. remarks: Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

- PI 509037 donor id: 538. origin: Argentina. collected: February 16, 1979. collector: B.L. Burson. collector id: 538. locality: Grazed area, Route 2 at 67km marker, S of Buenos Aires. remarks: Plants spreading, rhizomatous, good appearance under very dry conditions. Leaves 10-15cm long. Wild. Seed.
- PI 509038 donor id: 539. origin: Argentina. collected: February 16, 1979. collector: B.L. Burson. collector id: 539. locality: Heavily grazed pasture at Rio Samborambon, 55km S of La Plata, Buenos Aires Province. remarks: Plants spreading, stoloniferous, green under very dry and grazed conditions, may have drought and salt tolerance. Wild. Seed.
- PI 509039 donor id: 543. origin: Argentina. collected: February 16, 1979. collector: B.L. Burson. collector id: 543. locality: North edge of Chascomus, Buenos Aires Province. remarks: Plants vigorous, spreading. Wild. Seed.

PI 509040. *Trifolium campestre* Schreber FABACEAE Large hop clover

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 26. **origin:** Brazil. **collected:** January 13, 1979. **collector:** B.L. Burson. **collector id:** 26.
locality: Route BR 116, 3km S of Caxais do Sul, Rio Grande do Sul. **remarks:** Plants low growing type about 30cm tall. Flowers yellow. Wild. Seed.

PI 509041 to 509042. *Trifolium riograndense* Burkart FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

PI 509041 **donor id:** 76. **origin:** Brazil. **collected:** January 15, 1979. **collector:** B.L. Burson. **collector id:** 76.
locality: East, 19km of Cruziero, Santa Catarina.
remarks: Plants low growing, spreading, growing in high acid soil. Annual. Wild. Seed.

PI 509042 **donor id:** 78. **origin:** Brazil. **collected:** January 15, 1979. **collector:** B.L. Burson. **collector id:** 78.
locality: East, 20km of Bom Jargin da Serra, Santa Catarina. **remarks:** Plants low growing, spreading. Annual. Wild. Seed.

PI 509043. *Zornia diphylla* (L.) Pers. FABACEAE

Donated by: Burson, B.L., Grassland, Soil, and Water Research Lab., USDA-ARS, P.O. Box 6112, Temple, Texas, United States. **remarks:** Received through 1979 USDA-ARS sponsored plant exploration to South America. Received October 1986.

donor id: 122. **origin:** Brazil. **collected:** January 18, 1979. **collector:** B.L. Burson. **collector id:** 122.
locality: Agronomy Farm, Ponto Grosso, Parana. **remarks:** Plants erect, small, 20cm tall. Wild. Seed.

PI 509044. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Fehr, W.R., Department of Agronomy, Iowa State University, Ames, Iowa, United States. **remarks:** Cooperative development by the Iowa Agriculture & Home Economics Exp. Sta., the Ohio Agricultural Res. and Development Center and the Puerto Rico Agricultural Exp. Station. Received May 15, 1987.

PI 509044-continued

origin: United States. **cultivar:** Pella 86. **pedigree:** Pella*5/Williams 82. **other id:** CV-206. **group:** CSR-SOYBEAN. **remarks:** Agronomic traits similar to Pella. Maturity Group III. Flowers purple, tawny pubescence. Pods tan at maturity. Seeds dull yellow with black hila. Moderately susceptible to iron deficiency chlorosis on calcareous soil. Moderately susceptible to purple stain & downy mildew. **disease resistance:** Some races of Phytophthora rot (*P.megasperma* f.sp. *glycinea*). Race 2 of frog-eye leaf spot. Cultivar. Seed.

PI 509045 to 509046. *Zea mays* L. POACEAE Sweet corn

Donated by: West, D.R., Department of Plant and Soil Science, University of Tennessee, Knoxville, Tennessee, United States. Received May 15, 1987.

PI 509045 **donor id:** T62S. **origin:** United States. **other id:** GP-157. **group:** CSR-MAIZE. **remarks:** Plants vigorous. Brace roots green. Leaves 5, short, upright. Tassel with 18-22 branches. Anthers yellow. Ears short, 12 rows of small, shallow yellow kernels. Cobs white. Poor sweet corn quality factors. **disease resistance:** High tolerance to MDMV-A and MCDV viruses. **insect resistance:** Some to Corn ear worm. Breeding Material. Seed.

PI 509046 **donor id:** T64S. **origin:** United States. **other id:** GP-158. **group:** CSR-MAIZE. **remarks:** Plants vigorous. Brace roots green. Leaves 5, broad, drooping above ear node. Tassel open. 11-14 branches with yellow anthers. Ears large, with 10 rows of large yellow kernels. Cobs white. Poor sweet corn quality factors. **disease resistance:** Intermediate tolerance to MDMV-A and MCDV viruses. **insect resistance:** Some to Corn ear worm. Breeding Material. Seed.

PI 509047 to 509049. *Dactylis glomerata* L. POACEAE Orchardgrass

Donated by: Shenk, J.S., Department of Agronomy, Pennsylvania State University, University Park, Pennsylvania, United States. Received May 15, 1987.

PI 509047 **donor id:** Pennorchard A. **origin:** United States. **other id:** GP-52. **group:** CSR-ORCHARDGRASS. **remarks:** Good yield and quality. **disease resistance:** Tolerance to purple leaf spot, rust, and powdery mildew. Breeding Material. Seed.

PI 509047 to 509049-continued

PI 509048 donor id: Pennorchard C. origin: United States. other id: GP-53. group: CSR-ORCHARDGRASS. remarks: Good yield and quality. disease resistance: Tolerance to purple leaf spot, rust, and powdery mildew. Breeding Material. Seed.

PI 509049 donor id: Pennorchard D. origin: United States. remarks: Good yield and quality. disease resistance: Tolerance to purple leaf spot, rust, and powdery mildew. Breeding Material. Seed.

PI 509050. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Duncan, R.R., Department of Agronomy, Georgia Experiment Station, Griffin, Georgia, United States. Received May 15, 1987.

donor id: GPTM3BR(H)C4. origin: United States. other id: GP-210. group: CSR-SORGHUM. remarks: Plants variable in height, grain color, and panicle type. Population developed for use in breeding Fusarium head blight/stalk rot resistant cultivars. disease resistance: Foliar disease, Fusarium head blight, stalk rot & grain mold. Breeding Material. Seed.

PI 509051 to 509066. Helianthus annuus L. ASTERACEAE Sunflower

Donated by: Miller, J.F., USDA-ARS, North Dakota State University, Fargo, North Dakota, United States. Received May 15, 1987.

PI 509051 donor id: HA 341. origin: United States. pedigree: HA 89 *2/Pervenets. other id: GP-67. group: CSR-SUNFLOWER. remarks: Female oilseed line, with high oleic acid content (89.6%). Potential female parent of hybrids. Selected for height, flowering date, maturity and seed quality similar to HA 89. Breeding Material. Seed.

PI 509052 donor id: HA 342. origin: United States. pedigree: HA 89 *2/Pervenets. other id: GP-68. group: CSR-SUNFLOWER. remarks: Female oilseed line, with high oleic acid content (85.0%). Potential female parent of hybrids. Selected for height, flowering date, maturity and seed quality similar to HA 89. Breeding Material. Seed.

PI 509053 donor id: HA 343. origin: United States. pedigree: HA 89 *2/Pervenets. other id: GP-69. group: CSR-SUNFLOWER. remarks: Female oilseed line, with high oleic acid content (87.3%). Potential female parent of hybrids. Selected for height, flowering date, maturity and seed quality similar to HA 89. Breeding Material. Seed.

PI 509051 to 509066-continued

- PI 509054 **donor id:** HA 344. **origin:** United States. **pedigree:** RHA 274 *2/Pervenets. **other id:** GP-70. **group:** CSR-SUNFLOWER. **remarks:** Oilseed restorer line with high oleic acid content (86.3%). Plants with upper stem branching. Selected for plant height, maturity and seed quality characteristics similar to RHA 274. **disease resistance:** Race 2 of downy mildew. **Breeding Material.** Seed.
- PI 509055 **donor id:** HA 345. **origin:** United States. **pedigree:** RHA 274 *2/Pervenets. **other id:** GP-71. **group:** CSR-SUNFLOWER. **remarks:** Oilseed restorer line with high oleic acid content (87.4%). Plants with upper stem branching. Selected for plant height, maturity and seed quality characteristics similar to RHA 274. **disease resistance:** Race 2 of downy mildew. **Breeding Material.** Seed.
- PI 509056 **donor id:** HA 346. **origin:** United States. **pedigree:** RHA 274 *2/Pervenets. **other id:** GP-72. **group:** CSR-SUNFLOWER. **remarks:** Oilseed restorer line with high oleic acid content (87.2%). Plants with upper stem branching. Selected for plant height, maturity and seed quality characteristics similar to RHA 274. **disease resistance:** Race 2 of downy mildew. **Breeding Material.** Seed.
- PI 509057 **donor id:** HA 347. **origin:** United States. **pedigree:** RHA 274 *2/Pervenets. **other id:** GP-73. **group:** CSR-SUNFLOWER. **remarks:** Oilseed restorer line with high oleic acid content (86.4%). Plants with upper stem branching. Selected for plant height, maturity and seed quality characteristics similar to RHA 274. **disease resistance:** Race 2 of downy mildew. **Breeding Material.** Seed.
- PI 509058 **donor id:** HA 348. **origin:** United States. **pedigree:** RHA 274 *2/Pervenets. **other id:** GP-74. **group:** CSR-SUNFLOWER. **remarks:** Oilseed restorer line with high oleic acid content (85.8%). Plants with upper stem branching. Selected for plant height, maturity and seed quality characteristics similar to RHA 274. **disease resistance:** Race 2 of downy mildew. **Breeding Material.** Seed.
- PI 509059 **donor id:** HA 349. **origin:** United States. **pedigree:** HA 292 *2/Pervenets. **other id:** GP-75. **group:** CSR-SUNFLOWER. **remarks:** Female nonoilseed line with high oleic acid content (90.4%). Selected for plant height, maturity and seed quality similar to HA 292. Potential female parent of hybrids. **Breeding Material.** Seed.

PI 509051 to 509066-continued

- PI 509060 **donor id:** HA 350. **origin:** United States. **pedigree:** HA 292 *2/Pervenets. **other id:** GP-76. **group:** CSR-SUNFLOWER. **remarks:** Female nonoilseed line with high oleic acid content (90.5%). Selected for plant height, maturity and seed quality similar to HA 292. Potential female parent of hybrids. Breeding Material. Seed.
- PI 509061 **donor id:** HA 351. **origin:** United States. **pedigree:** HA 292 *2/Pervenets. **other id:** GP-77. **group:** CSR-SUNFLOWER. **remarks:** Female nonoilseed line with high oleic acid content (90.4%). Selected for plant height, maturity and seed quality similar to HA 292. Potential female parent of hybrids. Breeding Material. Seed.
- PI 509062 **donor id:** HA 352. **origin:** United States. **pedigree:** HA 292 *2/Pervenets. **other id:** GP-78. **group:** CSR-SUNFLOWER. **remarks:** Female nonoilseed line with high oleic acid content (87.6%). Selected for plant height, maturity and seed quality similar to HA 292. Potential female parent of hybrids. Breeding Material. Seed.
- PI 509063 **donor id:** HA 353. **origin:** United States. **pedigree:** HA 292 *2/Pervenets. **other id:** GP-79. **group:** CSR-SUNFLOWER. **remarks:** Female nonoilseed line with high oleic acid content (90.1%). Selected for plant height, maturity and seed quality similar to HA 292. Potential female parent of hybrids. Breeding Material. Seed.
- PI 509064 **donor id:** RHA 354. **origin:** United States. **pedigree:** RHA 310 *2/Pervenets. **other id:** GP-80. **group:** CSR-SUNFLOWER. **remarks:** Nonoilseed restorer line with high oleic acid content (88.3%). Selected for height, maturity, seed quality and other plant characteristics similar to RHA 310. Plants with upper stem branching. **disease resistance:** Race 2 of downy mildew. Breeding Material. Seed.
- PI 509065 **donor id:** RHA 355. **origin:** United States. **pedigree:** RHA 310 *2/Pervenets. **other id:** GP-81. **group:** CSR-SUNFLOWER. **remarks:** Nonoilseed restorer line with high oleic acid content (84.8%). Selected for height, maturity, seed quality and other plant characteristics similar to RHA 310. Plants with upper stem branching. **disease resistance:** Race 2 of downy mildew. Breeding Material. Seed.
- PI 509066 **donor id:** ND-02. **origin:** United States. **pedigree:** HA 89/Pervenets. **other id:** GP-82. **group:** CSR-SUNFLOWER. **remarks:** Oilseed bulk population. Range of oleic acid content 85.5 to 91.1%. Breeding Material. Seed.

PI 509067. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Fox, C.C., Northrup King Co., Stanton, Minnesota, United States. Received May 15, 1987.

donor id: 82503. **origin:** United States. **cultivar:** Commandor. **other id:** CV-147. **group:** CSR-ALFALFA. **remarks:** Plants for general forage purposes. Fall dormancy. **disease resistance:** Anthracnose, Phytophthora rot, bacterial & fusarium wilts. **insect resistance:** Moderate to spotted alfalfa aphid. **nematode resistance:** Moderate to stem (*Ditylenchus*). Cultivar. Seed.

PI 509068. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by: Indyk, H.W., Soils and Crops Dept., New Jersey Agriculture Experiment Sta., New Brunswick, New Jersey, United States. **remarks:** Developed and released by the Princeton Turf Nurseries. Received May 15, 1987.

origin: United States. **cultivar:** P-104. **pedigree:** Warren's A-25/Anheuser Dwarf. **other id:** CV-31. **group:** CSR-BLUEGRASS. **other id:** U.S. Patent 3643. **remarks:** Plants moderately low-growing with medium dark green color, persistent, dense, leafy, aggressive with stiff, wide leaves, highly apomictic. Good summer performance, good cool season color, excellent wear tolerance. **disease resistance:** Excellent to leaf spot, melting out disease, stripe smut. Leaf rust. Good to powdery mildew. **cold tolerance:** Excellent winterhardiness. Cultivar. Seed.

PI 509069. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Brilman, L.A., South 1914 Early Dawn, Veradale, Washington, United States. **remarks:** Developed by the Jacklin Seed Company, Post Falls, Idaho using germplasm from the New Jersey Agr. Exp. Station. Received May 15, 1987.

origin: United States. **cultivar:** Arid. **pedigree:** Synthetic from progenies of 88 clones. **other id:** CV-31. **group:** CSR-FESCUE. **other id:** PVPN-8700019. **remarks:** Plants moderately low growing, persistent, leafy, non-thatching, turf type with moderately dark green color, medium leaf texture and medium high density. Performs well under conditions of limited fertility. Good seedling vigor. Improved shade tolerance. **cold tolerance:** Good winterhardiness. Heat tolerance. Drought tolerance. Cultivar. Seed.

PI 509070. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Russell, R.A., J. and L. Adikes Inc., 182-12 93rd Avenue, Jamaica, New York, United States. Received May 15, 1987.

donor id: IA-728. **origin:** United States. **cultivar:** All*Star. **pedigree:** Synthetic from progenies of 14 clones. **other id:** CV-108. **group:** CSR-OTHER GRASSES. **remarks:** Plants leafy, persistent type, medium fine textured. Flowering medium - early. Seedling vigor excellent. Adapted to wide range of soils. Performs well in full sun and under light to moderate shade. Excellent wear and summer performance. **cold tolerance:** Good winterhardiness. Cultivar. Seed.

PI 509071. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: ICRISAT, Patancheru P.O., Andhra Pradesh, India. Received May 15, 1987.

donor id: PM 11344. **origin:** India. **cultivar:** ICSV 197. **pedigree:** IS 3443/DJ G514. **other id:** CV-125. **group:** CSR-SORGHUM. **other id:** ICRISAT Reg. no. 659. **other id:** Selection 1-1. **remarks:** Plants tan, medium thick. Stalk nonjuicy. Leaves drooping with short erect flag leaf. Panicle, semi-compact at base, loose and broad at apex, distinctly clustered. Maturity medium,. Photoperiod sensitive. Race caudatum. Subrace Zerazera. **insect resistance:** Sorghum midge. **disease resistance:** Less susceptible to anthracnose, rust, downy mildew. Zonate leaf spot than checks. Cultivar. Seed.

PI 509072 to 509073. *Brassica napus* L. var. *napus* BRASSICACEAE Rape

Donated by: Auld, D.L., Department of Plant, Soil and Entomology, University of Idaho, Moscow, Idaho, United States. Received May 15, 1987.

PI 509072 **origin:** United States. **cultivar:** Cascade. **pedigree:** F6 gen. from crosses between Indore (Industrial oilseed type) and edible oil types Sipal, WW827 and Liraglu. **other id:** CV-5. **group:** CSR-RAPE. **other id:** PVPN Cert. No. 8500172. **remarks:** Edible oil type. Growth habit determinate. Plants 10-20cm shorter and earlier maturing than most cultivars. Vernalization of 6 weeks required for flowering. Seedoil content 42%, erucic acid less than 2%. Winter Annual. Cultivar. Seed.

PI 509072 to 509073-continued

PI 509073 **origin:** United States. **cultivar:** Bridger. **pedigree:** Indore/Norde. **other id:** CV-6. **group:** CSR-RAPE. **other id:** PVPN Cert. No. 8500171. **remarks:** Industrial oilseed type. Plants 90-170cm tall. Winter survival good. Growth habit determinate. Flowers early. Seedoil content more than 45%, erucic acid 47.2 to 55.0%. Winter Annual. Cultivar. Seed.

PI 509074 to 509112. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Kwon, S.H., Department of Agronomy, Kyung-Hee University, Gonggingoon, Kyungido, Republic of Korea. Received May 4, 1987.

- PI 509074 **donor id:** KAS 100-3-1. **origin:** Korea, Republic of. **locality:** Yongsan Market, Seoul. Cultivated. Seed.
- PI 509075 **donor id:** KAS 150-13. **origin:** Korea, Republic of. **locality:** Gangwha Gun, Gyeonggi Do. Cultivated. Seed.
- PI 509076 **donor id:** KAS 235-15. **origin:** Korea, Republic of. **locality:** Inje Gun, Gangweon Do. Cultivated. Seed.
- PI 509077 **donor id:** KAS 320-2. **origin:** Korea, Republic of. **locality:** Jochiweon Gun, Chungcheong Nam Do. Cultivated. Seed.
- PI 509078 **donor id:** KAS 352-8. **origin:** Korea, Republic of. **locality:** Seosan Gun, Chungcheong Nam Do. Cultivated. Seed.
- PI 509079 **donor id:** KAS 353-6. **origin:** Korea, Republic of. **locality:** Daecheon Gun, Chungcheong Nam Do. Cultivated. Seed.
- PI 509080 **donor id:** KAS 353-8. **origin:** Korea, Republic of. **locality:** Daecheon Gun, Chungcheong Nam Do. Cultivated. Seed.
- PI 509081 **donor id:** KAS 353-14. **origin:** Korea, Republic of. **locality:** Daecheon Gun, Chungcheong Nam Do. Cultivated. Seed.
- PI 509082 **donor id:** KAS 353-15. **origin:** Korea, Republic of. **locality:** Daecheon Gun, Chungcheong Nam Do. Cultivated. Seed.
- PI 509083 **donor id:** KAS 353-16. **origin:** Korea, Republic of. **locality:** Daecheon Gun, Chungcheong Nam Do. Cultivated. Seed.

PI 509074 to 509112-continued

- PI 509084 donor id: KAS 353-17. origin: Korea, Republic of.
locality: Daecheon Gun, Chungcheong Nam Do. Cultivated.
Seed.
- PI 509085 donor id: KAS 353-18. origin: Korea, Republic of.
locality: Daecheon Gun, Chungcheong Nam Do. Cultivated.
Seed.
- PI 509086 donor id: KAS 380-8. origin: Korea, Republic of.
locality: Chungju Gun, Chungcheong Bug Do. Cultivated.
Seed.
- PI 509087 donor id: KAS-391-5. origin: Korea, Republic of.
locality: Danyang Gun, Chungcheong Bug Do. Cultivated.
Seed.
- PI 509088 donor id: KAS 502-3. origin: Korea, Republic of.
locality: Jangseong Gun, Junra Nam Do. Cultivated.
Seed.
- PI 509089 donor id: KAS 521-12. origin: Korea, Republic of.
locality: Imsil Gun, Junra Bug Do. Cultivated. Seed.
- PI 509090 donor id: KAS 540-1-1. origin: Korea, Republic of.
locality: Suncheon Gun, Junra Nam Do. Cultivated. Seed.
- PI 509091 donor id: KAS 560-6. origin: Korea, Republic of.
locality: Jeongeub Gun, Junra Bug Do. Cultivated. Seed.
- PI 509092 donor id: KAS 571-1. origin: Korea, Republic of.
locality: Naju Gun, Junra Nam Do. Cultivated. Seed.
- PI 509093 donor id: KAS 571-9-1. origin: Korea, Republic of.
locality: Naju Gun, Junra Nam Do. Cultivated. Seed.
- PI 509094 donor id: KAS 571-9-2. origin: Korea, Republic of.
locality: Naju Gun, Junra Nam Do. Cultivated. Seed.
- PI 509095 donor id: KAS 590-5. origin: Korea, Republic of.
locality: Jeju Gun, Jeju Do. Cultivated. Seed.
- PI 509096 donor id: KAS 601-4. origin: Korea, Republic of.
locality: Gupo Gun, Gyeonsang Nam Do. Cultivated. Seed.
- PI 509097 donor id: KAS 605-9. origin: Korea, Republic of.
locality: Milyang Gun, Gyeonsang Nam Do. Cultivated.
Seed.
- PI 509098 donor id: KAS 610-2. origin: Korea, Republic of.
locality: Goseong Gun, Gyeonsang Nam Do. Cultivated.
Seed.

PI 509074 to 509112-continued

- PI 509099 donor id: KAS 613-1. origin: Korea, Republic of.
locality: Haman Gun, Gyeonsang Nam Do. Cultivated.
Seed.
- PI 509100 donor id: KAS 613-7. origin: Korea, Republic of.
locality: Haman Gun, Gyeonsang Nam Do. Cultivated.
Seed.
- PI 509101 donor id: KAS 620-4. origin: Korea, Republic of.
locality: Samcheonpo Gun, Gyeonsang Nam Do. Cultivated.
Seed.
- PI 509102 donor id: KAS 630-18. origin: Korea, Republic of.
locality: Degu Gun, Gyeonsang Bug Do. Cultivated. Seed.
- PI 509103 donor id: KAS 632-11. origin: Korea, Republic of.
locality: Yeongduk Gun, Gyeonsang Bug Do. Cultivated.
Seed.
- PI 509104 donor id: KAS 632-14. origin: Korea, Republic of.
locality: Yeongduk Gun, Gyeonsang Bug Do. Cultivated.
Seed.
- PI 509105 donor id: KAS 632-15. origin: Korea, Republic of.
locality: Yeongduk Gun, Gyeonsang Bug Do. Cultivated.
Seed.
- PI 509106 donor id: KAS 632-16. origin: Korea, Republic of.
locality: Yeongduk Gun, Gyeonsang Bug Do. Cultivated.
Seed.
- PI 509107 donor id: KAS 632-17. origin: Korea, Republic of.
locality: Yeongduk Gun, Gyeonsang Bug Do. Cultivated.
Seed.
- PI 509108 donor id: KAS 632-18. origin: Korea, Republic of.
locality: Yeongduk Gun, Gyeonsang Bug Do. Cultivated.
Seed.
- PI 509109 donor id: KAS 632-19. origin: Korea, Republic of.
locality: Yeongduk Gun, Gyeonsang Bug Do. Cultivated.
Seed.
- PI 509110 donor id: KAS 636-11. origin: Korea, Republic of.
locality: Waegwan Gun, Gyeonsang Bug Do. Cultivated.
Seed.
- PI 509111 donor id: KAS 638-3. origin: Korea, Republic of.
locality: Seongju Gun, Gyeonsang Bug Do. Cultivated.
Seed.

PI 509074 to 509112-continued

PI 509112 donor id: KAS 660-7. origin: Korea, Republic of.
locality: Andong Gun, Gyeonsang Bug Do. Cultivated.
Seed.

PI 509113. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Hartwig, E.E., USDA Soybean Collection - South, Delta
Branch Experiment Station, Stoneville, Mississippi, United States.
remarks: Received from military serviceman about 40 years ago.
Received May 11, 1986.

origin: China, Peoples Repub of. locality: Salowene
River Valley, Yunan Province. remarks: Plant small,
viney type. Maturity Group VII. Seeds black. Seed from
single plant from mixed sample of adzuki bean seeds.
Cultivated. Seed.

PI 509114. *Lablab purpureus* (L.) Sweet FABACEAE Hyacinth bean

Donated by: Department of Plant Breeding, Tamil Nadu University,
Coimbatore, India. remarks: Received through the National Bureau of
Plant Genetic Resources, New Delhi. Received May 14, 1987.

origin: India. cultivar: Co. 7. remarks: Dual purpose
vegetable type suitable for green pods or dry seed.
Plants erect, short 66-86cm. Pods 6.1-7.1cm long, bloated
and succulent, odorless. Harvested 60 days up to 120
days. Day neutral. High yielding, 4491 kg. per ha of
green pods, 898 kg. per ha dry seed mean yield.
Cultivar. Seed.

PI 509115 to 509116. *Avena sativa* L. POACEAE Common oat

Donated by: Marshall, H.G., USDA-ARS, Dept. of Agronomy,
Pennsylvania St. Univ., 17 Tyson Bldg., University Park,
Pennsylvania, United States. Received June 02, 1987.

PI 509115 donor id: PA 7967-12422. origin: United States.
pedigree: Otee/CI 8447. other id: XW74G174. remarks:
Good test weight. Breeding Material. Seed.

PI 509116 donor id: PA 7967-2250. origin: United States.
pedigree: QO-58-8/Stout. other id: XW75G121. remarks:
Culms very stiff. Breeding Material. Seed.

PI 509117 to 509314. *Cicer arietinum* L. FABACEAE Chickpea

Donated by: Muehlbauer, F.J., USDA-ARS, Department of Agronomy & Soils, Washington State University, Pullman, WA, United States; and Kaiser, W.J., Western Regional P.I. Station, Washington State University, Pullman, WA, United States. Received April 06, 1987.

- PI 509117 **donor id:** 260685-0101. **origin:** Turkey. **collected:** June 26, 1985. **locality:** Field, 8km E of Denizli, Denizli Province. **elevation:** 595m. Cultivated. Seed.
- PI 509118 **donor id:** 260685-0102. **origin:** Turkey. **collected:** June 26, 1985. **locality:** Field, 8km E of Denizli, Denizli Province. **elevation:** 595m. Cultivated. Seed.
- PI 509119 **donor id:** 270685-0102. **origin:** Turkey. **collected:** June 27, 1985. **locality:** North, 19km of Aydincik, Aydincik to Gulnar road, Mersin Province. **elevation:** 790m. Cultivated. Seed.
- PI 509120 **donor id:** 270685-0103. **origin:** Turkey. **collected:** June 27, 1985. **locality:** North, 14km of Aydincik, Aydincik to Gulnar road, Mersin Province. **elevation:** 640m. Cultivated. Seed.
- PI 509121 **donor id:** 270685-0105. **origin:** Turkey. **collected:** June 27, 1985. **locality:** North, 14km of Aydincik, Aydincik to Gulnar road, Mersin Province. **elevation:** 640m. Cultivated. Seed.
- PI 509122 **donor id:** 270685-0201. **origin:** Turkey. **collected:** June 27, 1985. **locality:** Field, 7km S of Gulnar, Mersin Province. **elevation:** 920m. Cultivated. Seed.
- PI 509123 **donor id:** 270685-0301. **origin:** Turkey. **collected:** June 27, 1985. **locality:** Roadside field, rocky soil, 27km SE of Gulnar, Mersin Province. **elevation:** 990m. Cultivated. Seed.
- PI 509124 **donor id:** 290685-0101. **origin:** Turkey. **collected:** June 29, 1985. **locality:** Roadside, 4km S of Samandag to Yadlagi, Hatay Province. **elevation:** 380m. Cultivated. Seed.
- PI 509125 **donor id:** 290685-0102. **origin:** Turkey. **collected:** June 29, 1985. **locality:** Roadside, 4km S of Samandag to Yadlagi, Hatay Province. **elevation:** 380m. Cultivated. Seed.
- PI 509126 **donor id:** 290685-0103. **origin:** Turkey. **collected:** June 29, 1985. **locality:** Roadside, dry rocky soil, 6km from Samandag to Yayladagi, Hatay Province. **elevation:** 430m. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509127 donor id: 290685-0104. origin: Turkey. collected: June 29, 1985. locality: Small roadside field, rocky, red soil, 6km from Samandag towards Yayladagi. elevation: 430m. remarks: Plants short. Seeds small. Cultivated. Seed.
- PI 509128 donor id: 290685-0301. origin: Turkey. collected: June 29, 1985. locality: Roadside farmer's field, standing plants in rocky red soil, 2km N of Yayladagi towards Harbiye (near Antakya), Antakya Province. elevation: 720m. remarks: Plants short. Seeds kabuli and desi types. Cultivated. Seed.
- PI 509129 donor id: 290685-0601. origin: Turkey. collected: June 29, 1985. locality: Roadside field, stony red soil, 2km N of Senkoy turnoff on road to Antakya, Antakya Province. elevation: 715m. remarks: Plants short. Seeds medium. Cultivated. Seed.
- PI 509130 donor id: 290685-0604. origin: Turkey. collected: June 29, 1985. locality: Roadside, 2km N of Senkoy turnoff on road to Antakya, Antakya Province. elevation: 715m. remarks: Plants short. Seeds medium. Cultivated. Seed.
- PI 509131 donor id: 300685-0302. origin: Turkey. collected: June 30, 1985. locality: Threshing area, 36km from Aktepl towards Gaziantep. elevation: 560m. remarks: Plants fairly uniform. Cultivated. Seed.
- PI 509132 donor id: 300685-0304. origin: Turkey. collected: June 30, 1985. locality: Threshed, 36km from Aktepl towards Gaziantep. elevation: 560m. remarks: Plants variable. Seeds mostly kabuli types, few desi types, some have green cotyledons, but may be immature. Cultivated. Seed.
- PI 509133 donor id: 300685-0503. origin: Turkey. collected: June 30, 1985. locality: Piles ready for threshing, 7km from Martavan, road to Gaziantep, Gaziantep Province. elevation: 610m. Cultivated. Seed.
- PI 509134 donor id: 300685-0505. origin: Turkey. collected: June 30, 1985. locality: Piles ready for threshing, 7km from Martavan, road to Gaziantep, Gaziantep Province. elevation: 560m. remarks: Plants variable. Cultivated. Seed.
- PI 509135 donor id: 300685-0601. origin: Turkey. collected: June 30, 1985. locality: Threshing area, Kocabeyli village, road to Kilis, Gaziantep Province. elevation: 565m. remarks: Seed size variable, mostly kabuli types, some tan desi types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509136 donor id: 300685-0701. origin: Turkey. collected: June 30, 1985. locality: Harvested piles, road to Gaziantep, 16km N of Kilis, Gaziantep Province. elevation: 660m. remarks: Seeds mixed desi and kabuli types. Cultivated. Seed.
- PI 509137 donor id: 300685-0703. origin: Turkey. collected: June 30, 1985. locality: Harvested plants drying in field in cracking dry soil, road to Gaziantep, 19km N of Kilis, Gaziantep Province. elevation: 700m. remarks: Seeds mixed desi and kabuli types. Cultivated. Seed.
- PI 509138 donor id: 300685-0803. origin: Turkey. collected: June 30, 1985. locality: Threshing area, Kazikle village, road to Gaziantep, Gaziantep Province. elevation: 700m. remarks: Seeds mixed desi and kabuli types. Cultivated. Seed.
- PI 509139 donor id: 300685-0902. origin: Turkey. collected: June 30, 1985. locality: Threshing area, 8km N of Kazikle village, road to Gaziantep, Gaziantep Province. elevation: 755m. remarks: Seed size variable, kabuli and tan desi types. Cultivated. Seed.
- PI 509140 donor id: 300685-1002. origin: Turkey. collected: June 30, 1985. locality: Harvested, roadside from Kilis, 18km S of Gaziantep, Gaziantep Province. elevation: 910m. remarks: Seeds medium, mixed desi and kabuli types, mostly kabuli. Cultivated. Seed.
- PI 509141 donor id: 010785-0301. origin: Turkey. collected: July 01, 1985. locality: Threshing pile, 23km after road separation to Halfeli, 13km to Halfeti. elevation: 600m. remarks: Seeds mostly white, rough. Cultivated. Seed.
- PI 509142 donor id: 010785-0401. origin: Turkey. collected: July 01, 1985. locality: Villager at Karoatlak village, about 7km S of Halfeti, Urfa Province. elevation: 670m. remarks: Seeds mostly kabuli type with a few tan desi types. Cultivated. Seed.
- PI 509143 donor id: 010785-0404. origin: Turkey. collected: July 01, 1985. locality: Piles, Karoatlak village, 7km from Halfeti. elevation: 670m. remarks: Plants upright. Seeds medium to large, white, rough. Cultivated. Seed.
- PI 509144 donor id: 010785-0501. origin: Turkey. collected: July 01, 1985. locality: Threshing pile, Saylakkaya village, 7km N from Halfeti on east side of Firat. remarks: Seeds medium, red cotyledons. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509145 donor id: 010785-0701. origin: Turkey. collected: July 01, 1985. locality: Threshing area in Kocaali village, on Birecik to Urfa road, 15km E of turnoff to Halfeti. elevation: 750m. remarks: Seed size variable, mostly kabuli types, few tan desi types. Cultivated. Seed.
- PI 509146 donor id: 020785-0103. origin: Turkey. collected: July 02, 1985. locality: 2km after intersection towards Bozova, 12km from Urfa. elevation: 650m. remarks: Plants upright. Seeds medium to large, white, spiny, rough. Cultivated. Seed.
- PI 509147 donor id: 030785-0201. origin: Turkey. collected: July 03, 1985. locality: Tatarchayuk village, 15km after Yarimtepe village, Urfa Province. elevation: 520m. remarks: Seeds medium, mostly white. Cultivated. Seed.
- PI 509148 donor id: 030785-0202. origin: Turkey. collected: July 03, 1985. locality: Threshing pile, Tatarchayuk village, 15km after Yarimtepe village, Urfa Province. elevation: 520m. remarks: Seeds medium to small, white. Cultivated. Seed.
- PI 509149 donor id: 030785-0401. origin: Turkey. collected: July 03, 1985. locality: Hoyukiu village, 6km after Karacakaya village, Urfa Province. elevation: 590m. remarks: Plants upright, medium height. Seeds medium, white. Cultivated. Seed.
- PI 509150 donor id: 030785-0902. origin: Turkey. collected: July 03, 1985. locality: Threshed, Gecitbasi village, near Firat river, Urfa Province. elevation: 410m. remarks: Seeds tan and white. Cultivated. Seed.
- PI 509151 donor id: 040785-0101. origin: Turkey. collected: July 04, 1985. locality: Threshing area, Kazikli village, 17km after road separation of Adiyaman, Urfa Province. elevation: 550m. remarks: Plants upright, tall, many podded. Seeds medium, white, rough. Cultivated. Seed.
- PI 509152 donor id: 040785-0201. origin: Turkey. collected: July 04, 1985. locality: 600m after Kalemlı village, Urfa Province. elevation: 530m. remarks: Plants upright, few pods. Seeds white, spiny, rough, some desi and smooth types. Cultivated. Seed.
- PI 509153 donor id: 040785-0202. origin: Turkey. collected: July 04, 1985. locality: Threshing piles, after Kalemlı village, Urfa Province. elevation: 550m. remarks: Plants medium, upright. Seeds medium, white, rough. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509154 donor id: 040785-0205. origin: Turkey. collected: July 04, 1985. locality: Threshing pile, Burcalik village, Urfa Province. elevation: 550m. remarks: Seeds kabuli type, rough. Cultivated. Seed.
- PI 509155 donor id: 040785-0501. origin: Turkey. collected: July 04, 1985. locality: Threshing pile, Gecit Agzi, W of Hilvan, Urfa Province. elevation: 440m. remarks: Seeds kabuli type, mostly rough seed coats. Cultivated. Seed.
- PI 509156 donor id: 040785-0902. origin: Turkey. collected: July 04, 1985. locality: Near Uluyazi village, south Urfa Province. elevation: 530m. remarks: Plants medium height. Seeds medium, white, rough. Cultivated. Seed.
- PI 509157 donor id: 050785-0102. origin: Turkey. collected: July 05, 1985. locality: Villagers, Hayaz village, near site of Ataturk dam, Adiyaman Province. elevation: 380m. remarks: Seeds kabuli type, mostly smooth seed coats. Cultivated. Seed.
- PI 509158 donor id: 050785-0201. origin: Turkey. collected: July 05, 1985. locality: Harvested piles, 3km after village of Birecik, towards Samsat, Adiyaman Province. elevation: 510m. remarks: Plants upright, small. Seeds small, white, kabuli type. Cultivated. Seed.
- PI 509159 donor id: 050785-0204. origin: Turkey. collected: July 05, 1985. locality: Near village of Kumlaca along Firat river, Adiyaman Province. elevation: 370m. remarks: Plants short. Seeds variable, some desi, rough, white. Cultivated. Seed.
- PI 509160 donor id: 050785-0303. origin: Turkey. collected: July 05, 1985. locality: Piles in field, Seitbulak village, Adiyaman Province. elevation: 390m. remarks: Seeds mixed types, some evidence of kabuli-desi introgression. Spring Annual. Cultivated. Seed.
- PI 509161 donor id: 050785-0401. origin: Turkey. collected: July 05, 1985. locality: Kovanoluk-Samsat, near Firat river, Adiyaman Province. elevation: 450m. remarks: Plants medium height. Seeds variable, desi and kabuli types, some intermediate. Cultivated. Seed.
- PI 509162 donor id: 050785-0402. origin: Turkey. collected: July 05, 1985. locality: Piles in field, Tepeonu village, near Samsat, Adiyaman Province. elevation: 450m. remarks: Plants medium height. Seeds variable, mostly kabuli, few light to darker brown desi types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509163 donor id: 050785-0404. origin: Turkey. collected: July 05, 1985. locality: Harvested piles, Tepeonu-Hoziyen-Nezrase village, near Firat river, Adiyaman Province. elevation: 400m. remarks: Seeds mixed, white kabuli and desi types. Cultivated. Seed.
- PI 509164 donor id: 060785-0101. origin: Turkey. collected: July 06, 1985. locality: Threshing pile, 12km NW of DSI camp at Ataturk dam, on road from DSI camp to Adiyaman, Adiyaman Province. elevation: 490m. remarks: Seeds small, mixed kabuli, desi types, some with rough seed coats. Cultivated. Seed.
- PI 509165 donor id: 060785-0102. origin: Turkey. collected: July 06, 1985. locality: Threshing pile, Kuyulu village, 14km from DSI camp, Ataturk dam on road to Adiyaman, Adiyaman Province. elevation: 495m. remarks: Seeds mixed types, primarily kabuli with some desi types, possibly some introgression between kabuli and desi types. Cultivated. Seed.
- PI 509166 donor id: 060785-0103. origin: Turkey. collected: July 06, 1985. locality: Piles of drying plants in rocky field, calcareous soil, 19km from DSI camp, Ataturk dam on road to Adiyaman, Adiyaman Province. elevation: 495m. remarks: Seeds mixed types, kabuli with some desi, possibly some introgression between kabuli and desi. Round type, possibly segregant from cross between kabuli and desi types. Cultivated. Seed.
- PI 509167 donor id: 060785-0202. origin: Turkey. collected: July 06, 1985. locality: Piles of drying plants in field on red rocky soil, 23km from DSI camp, Ataturk dam on road to Adiyaman, Adiyaman Province. elevation: 580m. remarks: Seed size variable, mostly kabuli types, few desi types. Cultivated. Seed.
- PI 509168 donor id: 060785-0301. origin: Turkey. collected: July 06, 1985. locality: Plants drying in field on rocky calcareous soil, 23km from DSI camp, Ataturk dam, 2km N of intersection of old and new road to Adiyaman, Adiyaman Province. elevation: 470m. remarks: Seeds medium, kabuli type, variable, some white, rough. Cultivated. Seed.
- PI 509169 donor id: 060785-0303. origin: Turkey. collected: July 06, 1985. locality: Piles of dry plants in farmer's field on rocky calcareous soil, on old road 7km N of separation of old and new road to Adiyaman, Adiyaman Province. elevation: 540m. remarks: Seeds mixed sizes, mostly kabuli types, few desi and some white, rough. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509170 **donor id:** 060785-0401. **origin:** Turkey. **collected:** July 06, 1985. **locality:** Piles of dry plants in farmer's field on rocky calcareous soil, on old road 12km N of separation of old and new roads to Adiyaman, Adiyaman Province. **elevation:** 620m. **remarks:** Seeds medium, mixed types, mostly kabuli, some desi types. Cultivated. Seed.
- PI 509171 **donor id:** 060785-0501. **origin:** Turkey. **collected:** July 06, 1985. **locality:** Piles of dry plants in farmer's field on rocky calcareous soil, on road to Kahta, 15km E of Adiyaman, Adiyaman Province. **elevation:** 560m. **remarks:** Seeds mixed sizes, mostly kabuli, some desi types, some white, rough, possibly some introgression. Cultivated. Seed.
- PI 509172 **donor id:** 060785-0601. **origin:** Turkey. **collected:** July 06, 1985. **elevation:** 570m. **remarks:** Seeds mixed type with mostly kabuli, some desi types. Cultivated. Seed.
- PI 509173 **donor id:** 060785-0702. **origin:** Turkey. **collected:** July 06, 1985. **locality:** Oluklu village near Kahta, Adiyaman Province. **elevation:** 560m. Cultivated. Seed.
- PI 509174 **donor id:** 060785-0703. **origin:** Turkey. **collected:** July 06, 1985. **locality:** Oluklu village near Kahta, Adiyaman Province. **elevation:** 560m. Cultivated. Seed.
- PI 509175 **donor id:** 060785-0802. **origin:** Turkey. **collected:** July 06, 1985. **locality:** Adiyaman Province. **elevation:** 605m. Cultivated. Seed.
- PI 509176 **donor id:** 060785-0902. **origin:** Turkey. **collected:** July 06, 1985. **locality:** Eskitas village, Adiyaman Province. **elevation:** 610m. **remarks:** Seeds small, white, some desi, some white rough. Cultivated. Seed.
- PI 509177 **donor id:** 060785-1001. **origin:** Turkey. **collected:** July 06, 1985. **locality:** Storage, Dardason-Kahta village, near Firat river, Adiyaman Province. **elevation:** 540m. Cultivated. Seed.
- PI 509178 **donor id:** 060785-1102. **origin:** Turkey. **collected:** July 06, 1985. **locality:** Piles, Dardagon village, Kahta, Adiyaman Province. **elevation:** 680m. **remarks:** Plants short. Seeds small, white. Cultivated. Seed.
- PI 509179 **donor id:** 060785-1201. **origin:** Turkey. **collected:** July 06, 1985. **locality:** Narinci village, Kahta, Adiyaman Province. **elevation:** 740m. **remarks:** Plants short. Seeds small, white, some desi types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509180 donor id: 060785-1301. origin: Turkey. collected: July 06, 1985. locality: Piles, Tutenocak village, Kahta, Adiyaman Province. elevation: 820m. remarks: Plants short. Seeds small, white. Cultivated. Seed.
- PI 509181 donor id: 070785-0101. origin: Turkey. collected: July 07, 1985. locality: Piles of dry plants in farmer's field on brown rocky soil, on road to Siverek, 17km E of Kahta, Adiyaman Province. elevation: 600m. remarks: Seed variable, mostly kabuli types, few desi types. Cultivated. Seed.
- PI 509182 donor id: 070785-0202. origin: Turkey. collected: July 07, 1985. locality: Cayor village, Kahta, Adiyaman Province. elevation: 570m. remarks: Plants short, moderately upright. Seeds mostly rough, white, some smooth. Cultivated. Seed.
- PI 509183 donor id: 070785-0301. origin: Turkey. collected: July 07, 1985. locality: Piles of dry plants in farmer's field on rocky brown soil, Cayor village near the Firat (Euphrates) River, 4 km after Mustafa, Adiyaman Province. elevation: 410m. remarks: Seeds mixed types, mostly rough skinned kabulis, few desi types. Cultivated. Seed.
- PI 509184 donor id: 070785-0402. origin: Turkey. collected: July 07, 1985. locality: Piles, 2km after Mardi village, towards Siverek main road, Adiyaman Province. elevation: 510m. remarks: Seeds small, variable types, desi and kabuli, mostly kabuli. Cultivated. Seed.
- PI 509185 donor id: 070785-0502. origin: Turkey. collected: July 07, 1985. locality: Piles of dry plants in farmer's field on rocky brown soil, Basele village towards Siverek, Adiyaman Province. elevation: 550m. remarks: Seeds mixed, mostly rough skinned kabuli, few desi types. Cultivated. Seed.
- PI 509186 donor id: 070785-0801. origin: Turkey. collected: July 07, 1985. locality: Roadside, from Siverek, 60km from Diyarbakir, Urfa Province. elevation: 1060m. remarks: Plants short, upright. Seeds variable, white, few desi types. Spring Annual. Cultivated. Seed.
- PI 509187 donor id: 090785-0101. origin: Turkey. collected: July 09, 1985. locality: Piles, 11km from Diyarbakir towards Cinar, Diyarbakir Province. elevation: 645m. remarks: Plants short. Seeds white, small, smooth. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509188 **donor id:** 090785-0202. **origin:** Turkey. **collected:** July 09, 1985. **locality:** Roadside piles, 23km from Diyarbakir to Cinar, Diyarbakir Province. **elevation:** 720m. **remarks:** Plants tall, upright. Seeds medium, white, some rough. Cultivated. Seed.
- PI 509189 **donor id:** 100785-0101. **origin:** Turkey. **collected:** July 10, 1985. **locality:** Piles, near Diyarbakir, 72km to Silvan. **elevation:** 740m. **remarks:** Plants short, upright. Seeds medium, white, rough. Cultivated. Seed.
- PI 509190 **donor id:** 100785-0103. **origin:** Turkey. **collected:** July 10, 1985. **locality:** Threshing pile, village on road from Diyarbakir to Silvan, 69km from Silvan, Diyarbakir Province. **elevation:** 770m. **remarks:** Seeds small to medium, kabuli types, some with rough and smooth seed coats. Cultivated. Seed.
- PI 509191 **donor id:** 100785-0302. **origin:** Turkey. **collected:** July 10, 1985. **locality:** Threshing pile, village on road from Diyarbakir to Silvan, 56km from Silvan, Diyarbakir Province. **elevation:** 710m. **remarks:** Seeds small to medium, kabuli types, some with rough and smooth seed coats, some desi types with light brown seed coats. Cultivated. Seed.
- PI 509192 **donor id:** 100785-0501. **origin:** Turkey. **collected:** July 10, 1985. **locality:** Threshing pile, Oguzlar village, 39km from Silvan, Diyarbakir to Silvan road, Diyarbakir Province. **elevation:** 750m. **remarks:** Seeds mixed, mainly rough, kabuli types, few desi types. Cultivated. Seed.
- PI 509193 **donor id:** 100785-0601. **origin:** Turkey. **collected:** July 10, 1985. **locality:** Farmer's field on brown rocky soil, Bagdere village, 26km to Silvan, Diyarbakir to Silvan road, Diyarbakir Province. **elevation:** 780m. **remarks:** Seeds mixed types, mainly rough skinned kabuli, some intermediates. Cultivated. Seed.
- PI 509194 **donor id:** 100785-0602. **origin:** Turkey. **collected:** July 10, 1985. **locality:** Bagdere village, 26km to Silvan, Diyarbakir to Silvan road, Diyarbakir Province. **elevation:** 780m. Cultivated. Seed.
- PI 509195 **donor id:** 100785-0703. **origin:** Turkey. **collected:** July 10, 1985. **locality:** Brown, rocky soil, 16km from Silvan, Diyarbakir to Silvan road, Diyarbakir Province. **elevation:** 720m. **remarks:** Seed size variable, mostly rough kabulis types, some desi types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509196 donor id: 100785-0801K. origin: Turkey. collected: July 10, 1985. locality: Piles of drying plants in field with red rocky soil, 17km from Silvan on road from Silvan-Malabadi Bridge, Diyarbakir Province. elevation: 730m. remarks: Seeds variable, mostly rough skinned kabuli types, some desi types. Cultivated. Seed.
- PI 509197 donor id: 100785-0801D. origin: Turkey. collected: July 10, 1985. locality: Piles of drying plants in field with red rocky soil, 17km from Silvan on road from Silvan-Malabadi Bridge, Diyarbakir Province. elevation: 730m. remarks: Seeds variable, mostly rough kabulis types, some desi types. Cultivated. Seed.
- PI 509198 donor id: 110785-0101. origin: Turkey. collected: July 11, 1985. locality: Plants in farmer's field on brown rocky soil, road to Elazig 6km N of Diyarbakir, Diyarbakir Province. elevation: 750m. remarks: Seeds mixed sizes, mostly rough skinned kabulis, few brown desi types. Cultivated. Seed.
- PI 509199 donor id: 110785-0201. origin: Turkey. collected: July 11, 1985. locality: Field, piles of drying plants in brown soil, road to Elazig, 18km N of Diyarbakir, Diyarbakir Province. elevation: 700m. remarks: Seeds mixed sizes, mostly rough skinned kabuli, few brown desi types. Cultivated. Seed.
- PI 509200 donor id: 110785-0301. origin: Turkey. collected: July 11, 1985. locality: Piles of drying plants in farmer's field on red soil, road to Elazig, 41 km N of Diyarbakir, Diyarbakir Province. elevation: 790m. remarks: Seed size variable, mostly kabuli types with rough seed coats, few brown desi types. Cultivated. Seed.
- PI 509201 donor id: 110785-0501. origin: Turkey. collected: July 11, 1985. locality: 22km from Maden towards Elazig. elevation: 1205m. remarks: Seeds large, white, rough, some small, smooth. Cultivated. Seed.
- PI 509202 donor id: 120785-0201. origin: Turkey. collected: July 12, 1985. locality: 6km after Malatya Arapkir road separation towards Malatya, Malatya Province. elevation: 980m. remarks: Plants medium, green. Seeds white, rough. Cultivated. Seed.
- PI 509203 donor id: 120785-0301. origin: Turkey. collected: July 12, 1985. locality: Farmer's field on light brown loamy soil, 58km to Malatya from intersection of road to Arapkir, Malatya Province. elevation: 860m. remarks: Seed size variable, mostly kabuli with rough and smooth seed coats, some desi types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509204 donor id: 130785-0101. origin: Turkey. collected: July 13, 1985. locality: Malatya, 340km to Kayseri. elevation: 910m. remarks: Plants intermediate. Seeds medium to large, smooth, white-cream. Cultivated. Seed.
- PI 509205 donor id: 130785-0201. origin: Turkey. collected: July 13, 1985. locality: Maturing plants in field of rocky, brown soil, Doganler village, 320km to Kayseri, Maltaya Province. elevation: 1080m. remarks: Seed size variable, smooth, kabuli types. Cultivated. Seed.
- PI 509206 donor id: 130785-0401. origin: Turkey. collected: July 13, 1985. locality: 286km to Kayseri from Malatya, Malatya Province. elevation: 1480m. remarks: Plants short. Seeds medium, smooth, white-cream. Cultivated. Seed.
- PI 509207 donor id: 130785-0502. origin: Turkey. local name: Romanya nohut. collected: July 13, 1985. locality: Storage, village of Pazaroren, 26km after Pinarbasi, Kayseri Province. elevation: 1400m. remarks: Seeds variable types, some large, cream, few desi types, few brown rounds. Cultivated. Seed.
- PI 509208 donor id: 150785-0101. origin: Turkey. collected: July 15, 1985. locality: Small roadside garden, sandy gravelly soil, 4km from Urgup toward Nevsehir, Nevsehir Province. elevation: 1120m. remarks: Plants moderately tall, upright. Seeds kabuli types. Cultivated. Seed.
- PI 509209 donor id: 150785-0102. origin: Turkey. collected: July 15, 1985. locality: Small roadside garden, 4km from Urgup toward Nevsehir, Nevsehir Province. elevation: 1120m. remarks: Plants moderately upright, well podded. Seeds smooth, cream. Cultivated. Seed.
- PI 509210 donor id: 150785-0201. origin: Turkey. collected: July 15, 1985. locality: 57km to Aksaray, Nevsehir Province. elevation: 1240m. remarks: Plants upright, in rows. Pods and seeds large, kabuli type. Cultivated. Seed.
- PI 509211 donor id: 150785-0302. origin: Turkey. collected: July 15, 1985. locality: Sandy-gravelly soil, rocky flat land, on roadside from Nevsehir, 48km to Aksaray. elevation: 1200m. remarks: Plants fairly upright. Seeds medium-large, kabuli types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509212 donor id: 150785-0402. origin: Turkey. collected: July 15, 1985. locality: Brown, rocky soil, Nevsehir-Aksaray road, 48km to Aksaray, Nevsehir Province. elevation: 1200m. remarks: Some ascochyta blight present. Cultivated. Seed.
- PI 509213 donor id: 150785-0502. origin: Turkey. collected: July 15, 1985. locality: Storage, Yalman village, Nevsehir-Aksaray road, 43km to Aksaray, Negde Province. elevation: 1180m. Cultivated. Seed.
- PI 509214 donor id: 150785-0503. origin: Turkey. collected: July 15, 1985. locality: Storage, Yalman village, Negde Province. elevation: 1180m. Cultivated. Seed.
- PI 509215 donor id: 150785-0504. origin: Turkey. collected: July 15, 1985. locality: Storage, Yalman village on road from Nevsehir, 43km to Aksaray, Negde Province. elevation: 1180m. Cultivated. Seed.
- PI 509216 donor id: 150785-0601. origin: Turkey. collected: July 15, 1985. locality: Road from Nevsehir, 38km to Aksarya, Negde Province. elevation: 1150m. remarks: Plants tall, upright, Seeds variable size, mostly large, cream-colored. Heavy infection of ascochyta blight. Cultivated. Seed.
- PI 509217 donor id: 150785-0602. origin: Turkey. collected: July 15, 1985. locality: Road from Nevsehir, 38km to Aksarya, Negde Province. elevation: 1150m. Cultivated. Seed.
- PI 509218 donor id: 150785-0702. origin: Turkey. collected: July 15, 1985. locality: 32km to Aksaray from Nersehir, Negde Province. elevation: 1170m. remarks: Some ascochyta blight present. Cultivated. Seed.
- PI 509219 donor id: 150785-1001. origin: Turkey. collected: July 15, 1985. locality: Roadside, 6km to Aksaray from Nevsehir, Negde Province. elevation: 1050m. remarks: Plants tall, upright, well podded. Seeds medium-large, cream colored. Some ascochyta blight present. Cultivated. Seed.
- PI 509220 donor id: 160785-0102. origin: Turkey. collected: July 16, 1985. locality: Green and maturing plants in farmer's field growing on brown rocky soil near village of Bagarcik, on road to Beysehir, 57km from Konya, Konya Province. elevation: 1220m. remarks: Seeds mostly medium to large, kabuli types with smooth seed coats, one desi type. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509221 **donor id:** 160785-0201. **origin:** Turkey. **collected:** July 16, 1985. **locality:** Cukuragil village, 30km to Beysehir, Konya Province. **elevation:** 1160m. **remarks:** Plants moderately upright. Seeds variable, mostly kabuli, small to medium size, cream-colored, some desi types. Some ascochyta blight and black aphids present. Cultivated. Seed.
- PI 509222 **donor id:** 160785-0301. **origin:** Turkey. **collected:** July 16, 1985. **locality:** Road from Konya, 24km to Beysehir, Konya Province. **elevation:** 1130m. **remarks:** Seeds variable types and colors. Desi and kabuli types with some intermediate. Some ascochyta blight present. Cultivated. Seed.
- PI 509223 **donor id:** 160785-0401. **origin:** Turkey. **collected:** July 16, 1985. **locality:** Road from Konya, 14km to Beysehir, Konya Province. **elevation:** 1100m. **remarks:** Plants medium tall, upright, well podded. Seeds variable, some desi types. Some ascochyta blight present. Cultivated. Seed.
- PI 509224 **donor id:** 160785-0403. **origin:** Turkey. **collected:** July 16, 1985. **locality:** Road from Konya, 14km to Beysehir, Konya Province. **elevation:** 1100m. Cultivated. Seed.
- PI 509225 **donor id:** 160785-0404. **origin:** Turkey. **collected:** July 16, 1985. **locality:** Road from Konya, 14km to Beysehir, Konya Province. **elevation:** 1100m. Cultivated. Seed.
- PI 509226 **donor id:** 160785-0501. **origin:** Turkey. **collected:** July 16, 1985. **locality:** Road from Beysehir, 32km to Seydisehir, Konya Province. **elevation:** 1100m. **remarks:** Plants large, upright, large pods. Seeds large. Some ascochyta blight present. Cultivated. Seed.
- PI 509227 **donor id:** 160785-0502. **origin:** Turkey. **collected:** July 16, 1985. **locality:** Across road from 160785-0501, on road from Beysehir, 32km to Seydisehir, Konya Province. **elevation:** 1100m. **remarks:** Some ascochyta blight present. Cultivated. Seed.
- PI 509228 **donor id:** 160785-0602. **origin:** Turkey. **collected:** July 16, 1985. **locality:** Road from Beysehir, 22km to Seydisehir, Konya Province. **elevation:** 1100m. **remarks:** Some ascochyta blight present. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509229 donor id: 160785-0702. origin: Turkey. collected: July 16, 1985. locality: Road to Konya, 10km from Seydisehir, Konya Province. elevation: 1050m. remarks: Many plants colonized by black aphids. Seed size variable, mostly kabuli types, smooth, darker beige in color, some large. Cultivated. Seed.
- PI 509230 donor id: 160785-0801. origin: Turkey. collected: July 16, 1985. locality: Green and maturing plants in farmer's field on brown, rocky soil, road to Konya, 25km from Seydisehir, Konya Province. elevation: 1110m. remarks: Seed size variable, mostly bronze kabuli types. Cultivated. Seed.
- PI 509231 donor id: 170785-0101. origin: Turkey. collected: July 17, 1985. locality: Road from Konya, 67km to Chanbeyli, Konya Province. elevation: 920m. remarks: Thin stand. Plants moderately upright, tall. Seeds medium to large, kabuli types. Cultivated. Seed.
- PI 509232 donor id: 170785-0401. origin: Turkey. collected: July 17, 1985. locality: Road to Adana, near salt lake (Tuz Golu), 28km to Serefli- Kochesar, Ankara Province. elevation: 50m. remarks: Plants short. Seeds small, mostly kabuli types, cream colored. Some plants have little or no seed. Cultivated. Seed.
- PI 509233 donor id: 170785-0701. origin: Turkey. collected: July 17, 1985. locality: Piles of dry plants in farmer's field, 12km to Kaman from the Hirfanli Dam, Ankara Province. elevation: 920m. remarks: Seeds mixed sizes, variable maturity, mostly smooth kabuli, few brown desi types. Cultivated. Seed.
- PI 509234 donor id: 170785-0901. origin: Turkey. collected: July 17, 1985. locality: Golbasi Lake, 14km after Meryenkasi village, Kirsehir Province. elevation: 820m. remarks: Plants variable. Seeds desi and kabuli types. Cultivated. Seed.
- PI 509235 donor id: 170785-1002. origin: Turkey. collected: July 17, 1985. remarks: Severe ascochyta blight and pod lesions observed. Cultivated. Seed.
- PI 509236 donor id: 170785-1101. origin: Turkey. collected: July 17, 1985. locality: 16km to Kirsehir, Kirsehir Province. elevation: 1020m. remarks: Plants tall, upright. Seeds variable types, mixed sizes. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509237 **donor id:** 180785-0201. **origin:** Turkey. **collected:** July 18, 1985. **locality:** Pods from green and maturing plants on brown clay loam soil, road from Kirsehir, 14km to Cicekdagi, Kirsehir Province. **elevation:** 1010m. **remarks:** Seed size variable, mostly kabuli with smooth seed coats, some desi types. Cultivated. Seed.
- PI 509238 **donor id:** 180785-0501. **origin:** Turkey. **collected:** July 18, 1985. **locality:** Storage, Ayridam village, road from Yozgat-Sivas, 6km to Sorgun, Yozgat Province. **elevation:** 1100m. Cultivated. Seed.
- PI 509239 **donor id:** 200785-0203. **origin:** Turkey. **collected:** July 20, 1985. **locality:** Kizileyrek village, 24km after Merzifon towards Corum, Amasya Province. **elevation:** 700m. Cultivated. Seed.
- PI 509240 **donor id:** 200785-0403. **origin:** Turkey. **collected:** July 20, 1985. **locality:** Kamislikuyu village, 16km from Merzifon road to Corum. **elevation:** 580m. Cultivated. Seed.
- PI 509241 **donor id:** 210785-0201. **origin:** Turkey. **collected:** July 21, 1985. **locality:** 31km to Bayat from the intersection of Iskilik-Bayat-Cankiri, Corum Province. **elevation:** 600m. **remarks:** Plants tall, well podded. Seeds medium to large, kabuli types. Some ascochyta blight present. Cultivated. Seed.
- PI 509242 **donor id:** 210785-0401. **origin:** Turkey. **collected:** July 21, 1985. **locality:** 7km after Bayat on way to Cankiri, Corum Province. **elevation:** 500m. **remarks:** Plants variable. Seeds medium to large, mostly kabuli, some desi and some intermediate types. Ascochyta blight present on pods. Cultivated. Seed.
- PI 509243 **donor id:** 210785-0601. **origin:** Turkey. **collected:** July 21, 1985. **locality:** 3km after road separation of Kisilimol and Cankiri, towards Cankiri, Cankiri Province. **elevation:** 550m. **remarks:** Plants moderately upright and podded. Seeds kabuli type, uniform, cream colored. Ascochyta blight present on pods. Cultivated. Seed.
- PI 509244 **donor id:** 210785-0701. **origin:** Turkey. **collected:** July 21, 1985. **locality:** 23km to Kalecik from Cankiri, Cankiri Province. **elevation:** 800m. **remarks:** Seeds medium, kabuli types, some desi types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509245 **donor id:** 220785-0101. **origin:** Turkey. **collected:** July 22, 1985. **locality:** 14km to Sivrihisar on road from Ankara to Afyon, Eskisehir Province. **elevation:** 790m. **remarks:** Seed size variable, kabuli types with smooth seed coats. Ascochyta blight present. Cultivated. Seed.
- PI 509246 **donor id:** 220785-0201. **origin:** Turkey. **local name:** Nohut Espanyol. **collected:** July 22, 1985. **locality:** Near Sivrihisar, intersection of road to Ankara-Eskisehir- Afyon, Eskisehir Province. **elevation:** 950m. **remarks:** Seed size variable, some large kabuli types with smooth seed coats. Cultivated. Seed.
- PI 509247 **donor id:** 230785-0202. **origin:** Turkey. **collected:** July 23, 1985. **locality:** 21km from Dinar on road to Afyon, Afyon Province. **elevation:** 1060m. Cultivated. Seed.
- PI 509248 **donor id:** 230785-0301. **origin:** Turkey. **collected:** July 23, 1985. **locality:** Kiziloren village, about 25km from Dinar on road to Afyon, Afyon Province. **elevation:** 1050m. **remarks:** Plants variable. Seeds medium to large, mostly kabuli types, some desi, some round, white. Cultivated. Seed.
- PI 509249 **donor id:** 230785-0302K. **origin:** Turkey. **collected:** July 23, 1985. **locality:** Across road from PI 509248, Kiziloren village, 25km from Dinar on road to Afyon, Afyon Province. **elevation:** 1050m. **remarks:** Plants upright. Seed size variable, mostly kabuli types, some desi, smooth seed coats. Cultivated. Seed.
- PI 509250 **donor id:** 230785-0302D. **origin:** Turkey. **collected:** July 23, 1985. **locality:** Across road from PI 509248, Kiziloren village, 25km from Dinar on road to Afyon, Afyon Province. **elevation:** 1050m. **remarks:** Plants upright. Seed size variable, mostly kabuli types, some desi, smooth seed coats. Cultivated. Seed.
- PI 509251 **donor id:** 230785-0303. **origin:** Turkey. **collected:** July 23, 1985. **locality:** Piles of plants drying in field, Kiziloren village, 25km from Dinar on road to Afyon, Afyon Province. **elevation:** 1050m. Cultivated. Seed.
- PI 509252 **donor id:** 230785-0304. **origin:** Turkey. **collected:** July 23, 1985. **locality:** Kiziloren village, 25km from Dinar on way to Afyon, Afyon Province. **elevation:** 1050m. **remarks:** Plants upright. Seeds variable types, mostly bronze, large kabuli types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509253 donor id: 230785-0402. origin: Turkey. collected: July 23, 1985. locality: Field, Ekinova village, 31km N of Dinar, road to Afyon, Afyon Province. elevation: 1010m. Cultivated. Seed.
- PI 509254 donor id: 230785-0501. origin: Turkey. collected: July 23, 1985. locality: Afyon-Kusra, (Dogansu) village, 40km N of Dinar, Sandikli town, Afyon Province. elevation: 1040m. remarks: Plants tall; upright, well podded. Seeds mostly kabuli, bronze and rough, some desi types. Ascochyta blight and damage from heliotus observed. Cultivated. Seed.
- PI 509255 donor id: 230785-0502. origin: Turkey. collected: July 23, 1985. locality: Piles of plants in field near Dogansu village, 40km N of Dinar on road to Afyon, Afyon Province. elevation: 1040m. Cultivated. Seed.
- PI 509256 donor id: 230785-0601. origin: Turkey. collected: July 23, 1985. locality: Donbayora village, Afyon-Dinar (town), 18km N of Dinar. elevation: 1050m. remarks: Seeds medium, mostly kabuli, white types, few desi types. Ascochyta blight present. Cultivated. Seed.
- PI 509257 donor id: 230785-0702. origin: Turkey. collected: July 23, 1985. locality: 10km to Haydarle, 30km to Dinar, Afyon Province. elevation: 1100m. remarks: Plants somewhat green. Seeds mostly kabuli types, few desi types. Cultivated. Seed.
- PI 509258 donor id: 240785-0101. origin: Turkey. collected: July 24, 1985. locality: Road from Dinar-Isparta, 6km S of Dinar, Afyon Province. elevation: 950m. remarks: Plants medium. Seed size variable, both with rough and smooth coats. Only kabuli types observed. Cultivated. Seed.
- PI 509259 donor id: 240785-0102. origin: Turkey. collected: July 24, 1985. locality: Dikici village, 14km after Dinar on way to Isparta. elevation: 1100m. remarks: Seeds mostly kabuli types, few desi types. Cultivated. Seed.
- PI 509260 donor id: 240785-0201. origin: Turkey. collected: July 24, 1985. locality: Gumiesgin village, on way from Dinar to Isparta, Isparta Province. elevation: 950m. remarks: Seed size variable, mostly kabuli types, some desi planted between rows of Rosacue. Cultivated. Seed.
- PI 509261 donor id: 240785-0401. origin: Turkey. collected: July 24, 1985. locality: 13km to Isparta on road from Dinar, Isparta Province. elevation: 910m. remarks: Plants variable. Seeds mostly large, kabuli types, some desi types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509262 donor id: 240785-0501. origin: Turkey. collected: July 24, 1985. locality: On slopes, clay, rocky soil, 20km after Isparta on way to Burdur-Antalya, Burdur Province. elevation: 970m. remarks: Plants tall. Seeds mostly kabuli types. Cultivated. Seed.
- PI 509263 donor id: 240785-0601. origin: Turkey. collected: July 24, 1985. locality: Aglasun-Dereksy village, 31km after Isparta towards Burdur, Burdur Province. elevation: 1040m. remarks: Seeds small, white, mostly kabuli types. Cultivated. Seed.
- PI 509264 donor id: 240785-0702. origin: Turkey. collected: July 24, 1985. locality: Road from Bucak to Burdur, 32km to Burdur, Burdur Province. elevation: 850m. remarks: Plants medium height. Seeds mostly medium, white, kabuli types, some desi types. Cultivated. Seed.
- PI 509265 donor id: 240785-0801. origin: Turkey. collected: July 24, 1985. locality: Bucak-Burdur road, 25km from Burdur, Burdur Province. elevation: 1200m. remarks: Plants not good, poorly podded, likely from being planted when soil was wet. Cultivated. Seed.
- PI 509266 donor id: 240785-0901. origin: Turkey. collected: July 24, 1985. locality: Hacilar village, 24km after Burdur, on way to Yesilova, Burdur Province. elevation: 900m. remarks: Plants short. Seeds small, white, kabuli types. Ascochyta blight present. Cultivated. Seed.
- PI 509267 donor id: 240785-1001. origin: Turkey. collected: July 24, 1985. locality: Road to Yesilova, 5km from intersection of Burdur-Antalya- Yesilova, Burdur Province. elevation: 950m. remarks: Plants tall, upright, well podded. Seeds large, white kabuli types, excellent quality. Cultivated. Seed.
- PI 509268 donor id: 240785-1101. origin: Turkey. collected: July 24, 1985. locality: Harvested piles of plants in field, Caltak village, on way from Burdur to Yesilova, Burdur Province. elevation: 1200m. remarks: Plants medium tall, well podded. Seeds medium to large, cream and white, few rounds, kabuli type. Cultivated. Seed.
- PI 509269 donor id: 240785-1201. origin: Turkey. collected: July 24, 1985. locality: Threshing piles, near Guney village, 21km from Yesilova on road to Denizli, Burdur Province. elevation: 1010m. remarks: Plants medium tall, well podded. Seeds medium to large, cream-white, kabuli type. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509270 donor id: 240785-1301. origin: Turkey. collected: July 24, 1985. locality: Harvested piles in field, road to Denizli, 28km from Yesilova, Denizli Province. elevation: 930m. remarks: Plants mostly tall, upright. Seeds medium to large, cream- white, kabuli type. Cultivated. Seed.
- PI 509271 donor id: 240785-1302. origin: Turkey. collected: July 24, 1985. locality: Threshing pile, Karahoycik village, 36km after Yesilova on road to Denizli, Denizli Province. elevation: 870m. remarks: Seeds mostly medium to large, white, kabuli type. Cultivated. Seed.
- PI 509272 donor id: 240785-1303. origin: Turkey. collected: July 24, 1985. locality: Threshing pile, Apakoy village, road to Denizli, 41km from Yesilova. elevation: 870m. remarks: Seeds mostly cream-white, kabuli types. Cultivated. Seed.
- PI 509273 donor id: 240785-1304. origin: Turkey. collected: July 24, 1985. locality: Threshing pile, road to Acipayam, 5km after intersection with Yesilova-Denizli road, Denizli Province. elevation: 1100m. remarks: Plants mostly tall, upright. Seeds medium to large, cream-white, kabuli types. Cultivated. Seed.
- PI 509274 donor id: 250785-0102. origin: Turkey. collected: July 25, 1985. locality: Threshing pile, 5km from State farm on way to Acipayam, Denizli Province. elevation: 900m. remarks: Seeds medium to large, cream-white, kabuli types. Cultivated. Seed.
- PI 509275 donor id: 250785-0103. origin: Turkey. collected: July 25, 1985. locality: Piles in farmer's field, road to Denizli, 14km from Acipayam, Denizli Province. elevation: 900m. remarks: Seed size variable, kabuli types with smooth seed coats. Cultivated. Seed.
- PI 509276 donor id: 250785-0104. origin: Turkey. collected: July 25, 1985. locality: Threshing pile, road to Denizli, 15km from Acipayam. elevation: 900m. remarks: Seed size variable, kabuli types with smooth seed coats. Cultivated. Seed.
- PI 509277 donor id: 250785-0201. origin: Turkey. collected: July 25, 1985. locality: Near Tekke village, 4km after Izmir-Tavas-Acipayam intersection on way to Tavas, Denizli Province. elevation: 1070m. remarks: Plants spreading. Seeds mostly medium, white, kabuli types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509278 **donor id:** 250785-0202. **origin:** Turkey. **collected:** July 25, 1985. **locality:** Akyar village, 9km after Izmir-Tavas-Acipayam intersection on way toward Tavas, Denizli Province. **remarks:** Plants moderately upright. Seeds large, white, kabuli type. Ascochyta blight present. Cultivated. Seed.
- PI 509279 **donor id:** 250785-0301. **origin:** Turkey. **collected:** July 25, 1985. **locality:** Piles in field, 5km after Tavas on way to Kale, Denizli Province. **elevation:** 860m. **remarks:** Seeds medium to large, white-cream, kabuli type. Cultivated. Seed.
- PI 509280 **donor id:** 250785-0302. **origin:** Turkey. **collected:** July 25, 1985. **locality:** Piles in field, 5km after Tavas on road to Kale, Denizli Province. **elevation:** 900m. **remarks:** Seeds mostly medium to large, kabuli types. Cultivated. Seed.
- PI 509281 **donor id:** 250785-0401. **origin:** Turkey. **collected:** July 25, 1985. **locality:** Field, 2km N of intersection of Tavas-Izmir-Acipayam going toward Denizli, Denizli Province. **elevation:** 1100m. **remarks:** Seeds mostly medium to large, kabuli types used for leblebi. Cultivated. Seed.
- PI 509282 **donor id:** 250785-0502. **origin:** Turkey. **collected:** July 25, 1985. **locality:** 39km toward Civril from Denizli, Denizli Province. **elevation:** 900m. **remarks:** Seeds large, cream, mostly kabuli types. Cultivated. Seed.
- PI 509283 **donor id:** 250785-0601. **origin:** Turkey. **collected:** July 25, 1985. **locality:** Yamanlar village, 11km to Civril from Denizli. **elevation:** 900m. **remarks:** Plants tall, upright. Seeds large, bronze and rough kabuli type. Cultivated. Seed.
- PI 509284 **donor id:** 250785-0701. **origin:** Turkey. **collected:** July 25, 1985. **locality:** 7km from Civril on way to Usak, Denizli Province. **elevation:** 1100m. **remarks:** Plants short. Seeds medium, white-cream, mostly kabuli type, some desi types. Cultivated. Seed.
- PI 509285 **donor id:** 250785-0801. **origin:** Turkey. **collected:** July 25, 1985. **locality:** 33km to Usak from Civril, 8km from Usak-Denizli border, Usak Province. **elevation:** 1010m. **remarks:** Plants short, variable. Seeds mostly medium, cream-white, kabuli types, some desi types. Ascochyta blight present. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509286 donor id: 250785-0901. origin: Turkey. collected: July 25, 1985. locality: Sivasli-Akarca village, 19km to Usak, Usak Province. elevation: 1100m. remarks: Plants medium height, upright. Seeds mostly bronze, rough large kabuli type. Ascochyta blight present. Cultivated. Seed.
- PI 509287 donor id: 260785-0101. origin: Turkey. collected: July 26, 1985. locality: 4km from intersection of roads to Usak-Gediz-Kutanya going towards Gediz, Usak Province. elevation: 780m. remarks: Plants spreading type, well podded. Seeds large, red and partially rough. Ascochyta blight present. Cultivated. Seed.
- PI 509288 donor id: 260785-0201. origin: Turkey. collected: July 26, 1985. locality: Yenikoy village, 23km from intersection of roads to Gediz & Usak-Izmir, Kutahya Province. elevation: 710m. remarks: Plants tall, upright, well podded. Seeds large, red and somewhat rough. Some ascochyta blight present. Cultivated. Seed.
- PI 509289 donor id: 260785-0202. origin: Turkey. collected: July 26, 1985. locality: Threshing pile, Yenikoy village, 25km from intersection of roads to Gediz and Izmir-Usak, Kutahya Province. elevation: 710m. remarks: Plants tall, upright, well podded. Seeds large, red, kabuli type. Cultivated. Seed.
- PI 509290 donor id: 260785-0203. origin: Turkey. collected: July 26, 1985. locality: Threshing pile, Yenikoy village, 25km from intersection of roads to Gediz and Usak-Izmir, Kutahya Province. elevation: 710m. remarks: Plants mostly tall, upright. Seeds large, red. Cultivated. Seed.
- PI 509291 donor id: 260785-0204. origin: Turkey. collected: July 26, 1985. locality: Threshing area, Yenikoy village, 25km after intersection of roads to Gediz and Izmir-Usak, Kutahya Province. elevation: 710m. remarks: Plants tall, upright. Seeds large, red. Cultivated. Seed.
- PI 509292 donor id: 260785-0302. origin: Turkey. collected: July 26, 1985. locality: 7km from Gediz on way to Muratdagi, Kutahya Province. elevation: 880m. remarks: Plants tall, upright. Seeds large, red, kabuli type. Cultivated. Seed.
- PI 509293 donor id: 260785-0401. origin: Turkey. collected: July 26, 1985. locality: Storage, Aykpinar yulu village, near Gediz, Kutahya Province. elevation: 1200m. remarks: Seeds mostly large, white, kabuli types, some desi types. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509294 **donor id:** 260785-0402. **origin:** Turkey. **collected:** July 26, 1985. **locality:** Storage, Aykpinar yulu village, near Gediz, Kutahya Province. **elevation:** 1200m. **remarks:** Seeds mixed types. Cultivated. Seed.
- PI 509295 **donor id:** 260785-2001. **origin:** Turkey. **collected:** July 26, 1985. **locality:** Piles in field, 12km from intersection of road to Gediz- Gediz-Izmir and Usak coming from Usak, Usak Province. **elevation:** 700m. **remarks:** Plants tall, upright. Seeds large, red, rough kabuli type. Cultivated. Seed.
- PI 509296 **donor id:** 270785-0202. **origin:** Turkey. **collected:** July 27, 1985. **locality:** 39km from Eskisehir on road from Kutahya, Kutahya Province. **elevation:** 920m. **remarks:** Seeds medium, variable types present, kabuli and some desi types. Severely infected with ascochyta. Cultivated. Seed.
- PI 509297 **donor id:** 270785-0203. **origin:** Turkey. **collected:** July 27, 1985. **locality:** 39km from Eskisehir on road from Kutahya, Kutahya Province. **elevation:** 920m. **remarks:** Variable plant types. Seeds mostly medium sized kabuli types, desi types. Severely infected with ascochyta blight. Cultivated. Seed.
- PI 509298 **donor id:** 270785-0301. **origin:** Turkey. **collected:** July 27, 1985. **locality:** 13km to Inegol on road to Bursa from Eskisehir, Bilecik Province. **elevation:** 370m. **remarks:** Plants tall, upright. Seeds kabuli types. Cultivated. Seed.
- PI 509299 **donor id:** 270785-0401. **origin:** Turkey. **collected:** July 27, 1985. **locality:** 26km to Bursa from direction of Inegol, Bursa Province. **elevation:** 370m. **remarks:** Plants moderately upright, well podded. Seeds white-cream, kabuli types. Ascochyta blight present. Cultivated. Seed.
- PI 509300 **donor id:** 270785-0501. **origin:** Turkey. **collected:** July 27, 1985. **locality:** 16km from Karacabey on way to Bandirma, Bursa Province. **elevation:** 80m. **remarks:** Plants moderately upright, not well podded. Seeds large, mostly white (almost pure white). Cultivated. Seed.
- PI 509301 **donor id:** 280785-0101. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Threshing area, Bezirci village, 26km to Gonen on way to Canakkale, Balikesir Province. **elevation:** 180m. **remarks:** Seeds medium, mostly white, kabuli type. Ascochyta blight present. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509302 **donor id:** 280785-0102. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Threshing area, Bezirci village, 26km to Gonen on road to Canakkale, Baliksehir Province. **elevation:** 180m. **remarks:** Plants large. Seeds mostly white, kabuli type. Ascochyta blight present. Cultivated. Seed.
- PI 509303 **donor id:** 280785-0201. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Harvested piles in field, 5km after Gonen on road to Biga, Baliksehir Province. **elevation:** 80m. **remarks:** Plants medium height, well podded. Seeds medium to large, white, kabuli type. Cultivated. Seed.
- PI 509304 **donor id:** 280785-0302. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Threshing area for Vicia faba, 14km after Gonen on road to Biga, Baliksehir Province. **elevation:** 75m. Cultivated. Seed.
- PI 509305 **donor id:** 280785-0403. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Storage, Guvemalan village, 34km after Gonen on road to Biga, Canakkale Province. **elevation:** 50m. **remarks:** Seeds large, kabuli types. Cultivated. Seed.
- PI 509306 **donor id:** 280785-0404. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Seed store, Guvemalan village, 34km after Gonen on road to Biga, Canakkale Province. **elevation:** 50m. **remarks:** Seeds small, kabuli types, few desi type. Cultivated. Seed.
- PI 509307 **donor id:** 280785-0501. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Storage, 12km after Biga on road to Canakkale, Canakkale Province. **elevation:** 75m. Cultivated. Seed.
- PI 509308 **donor id:** 280785-0601. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Small garden, 25km to Lapseki on road from Biga, Canakkale Province. **elevation:** 60m. **remarks:** Seeds medium, cream-white, kabuli type. Cultivated. Seed.
- PI 509309 **donor id:** 280785-0702. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Thin stand, near Adatepe village, 10km to Lapseki on road from Biga near Dardanelle Strait, Canakkale Province. **elevation:** 60m. **remarks:** Plants large, well podded. Seeds mostly large, white, kabuli types, few desi type. Cultivated. Seed.

PI 509117 to 509314-continued

- PI 509310 **donor id:** 280785-0801. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Field, Yapilak village, 21km after Lapseki on road to Canakkale, Canakkale Province. **elevation:** 100m. **remarks:** Plants tall, well podded. Seeds mixed kabuli types. Some ascochyta blight present. Cultivated. Seed.
- PI 509311 **donor id:** 280785-0902. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Plants drying in field, edge of Canakkale, on road to Lapseki, Canakkale Province. **elevation:** 50m. **remarks:** Plants tall, well podded. Seeds mostly cream-white, large kabuli type. Cultivated. Seed.
- PI 509312 **donor id:** 280785-1003. **origin:** Turkey. **collected:** July 28, 1985. **locality:** 5km from Ezine on road to Bayramic, Canakkale Province. **elevation:** 100m. **remarks:** Seeds large, mostly kabuli types, white and cream, some sterility. Cultivated. Seed.
- PI 509313 **donor id:** 280785-1101. **origin:** Turkey. **collected:** July 28, 1985. **locality:** 7km from Ezine on road to Izmir, Canakkale Province. **elevation:** 120m. **remarks:** Plants tall, upright, well podded. Seeds small, white, kabuli type, white-cream. Cultivated. Seed.
- PI 509314 **donor id:** 280785-1102. **origin:** Turkey. **collected:** July 28, 1985. **locality:** Threshing area, 7km after Ezine on road to Izmir, Canakkale Province. **elevation:** 120m. **remarks:** Seeds variable, mostly large, white, kabuli type. Cultivated. Seed.

PI 509315 to 509432. *Lens culinaris* Medikus FABACEAE Lentil

Donated by: Muehlbauer, F.J., USDA-ARS, Department of Agronomy & Soils, Washington State University, Pullman, Washington, United States; and Kaiser, W.J., Western Regional P.I. Station, Washington State University, Pullman, Washington, United States. Received April 06, 1987.

- PI 509315 **donor id:** 260685-0202. **origin:** Turkey. **collected:** June 26, 1985. **locality:** Field, 13km east of Denizli Province. **elevation:** 840m. **remarks:** Seeds large, yellow. Cultivated. Seed.
- PI 509316 **donor id:** 290685-0602. **origin:** Turkey. **collected:** June 29, 1985. **locality:** Threshing area, 2km north of Serkay turnoff to Antakya. **elevation:** 715m. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509317 **donor id:** 300685-0303. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Threshing pile, 36km from Aktepe on road to Gaziantep Province. **elevation:** 560m. **remarks:** Seeds mostly red. Cultivated. Seed.
- PI 509318 **donor id:** 300685-0501. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Threshing piles, 6km after Martavan toward Kilis, Gaziantep Province. **elevation:** 610m. Cultivated. Seed.
- PI 509319 **donor id:** 300685-0504. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Threshing piles, 7km after Martavan toward Kilis, Gaziantep Province. **elevation:** 600m. Cultivated. Seed.
- PI 509320 **donor id:** 300685-0602. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Threshing pile, Kocabeyli village, 24km to Kilis. **elevation:** 565m. **remarks:** Seeds medium, mottled, red. Cultivated. Seed.
- PI 509321 **donor id:** 300685-0603. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Threshing piles, Kocabeyli village, 23km to Kilis, Gaziantep Province. **elevation:** 520m. **remarks:** Seeds medium, red. Cultivated. Seed.
- PI 509322 **donor id:** 300685-0702. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Windrows for threshing, 19km N of Kilis on road to Gaziantep. **elevation:** 700m. **remarks:** Seeds mostly red. Cultivated. Seed.
- PI 509323 **donor id:** 300685-0801. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Threshing area, 24km from Kilis on road to Gaziantep. **elevation:** 700m. **remarks:** Seeds mostly red. Badly infested by bruchids. Cultivated. Seed.
- PI 509324 **donor id:** 300685-0802. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Threshing area, Kazikle village, 24km from Kilis on road to Gaziantep. **elevation:** 700m. **remarks:** Seeds red. Badly infested by bruchids. Cultivated. Seed.
- PI 509325 **donor id:** 300685-0901. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Threshing pile, 8km from Kazikle village, 32km after Kilis, north to Gaziantep. **elevation:** 755m. **remarks:** Seeds medium, red. Cultivated. Seed.
- PI 509326 **donor id:** 300685-1001. **origin:** Turkey. **collected:** June 30, 1985. **locality:** Red soil, harvested piles, 20km S of Gaziantep on road from Kilis. **elevation:** 850m. **remarks:** Seeds medium, red. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509327 donor id: 010785-01. origin: Turkey. collected: July 01, 1985. locality: Field, dried plants in red rocky soil, 12km E of Gaziantep, road to Nizip, Gaziantep Province. elevation: 800m. remarks: Seeds medium, red. Cultivated. Seed.
- PI 509328 donor id: 010785-0201. origin: Turkey. collected: July 01, 1985. locality: Threshing place, village of Acarkoy, road from Nizip to Birecik. elevation: 430m. remarks: Seeds medium, red cotyledon. Cultivated. Seed.
- PI 509329 donor id: 010785-0402. origin: Turkey. collected: July 01, 1985. locality: Already threshed, Karaotlak village, 7km S of Halfeti, Urfa Province. elevation: 670m. remarks: Seeds small, red. Cultivated. Seed.
- PI 509330 donor id: 010785-0403. origin: Turkey. collected: July 01, 1985. locality: In piles not threshed, Karaotlak village, 7km to Halfeti, Urfa Province. elevation: 670m. remarks: Seeds medium, spotted, red. Good yield. Cultivated. Seed.
- PI 509331 donor id: 010785-0502. origin: Turkey. collected: July 01, 1985. locality: Threshing pile, Saylakkaya village, 7km N from Halfeti on east side of Firat. Cultivated. Seed.
- PI 509332 donor id: 010785-0601. origin: Turkey. collected: July 01, 1985. locality: Road toward Durak, 6km after Saylakkaya, Urfa Province. elevation: 670m. remarks: Seeds medium, red. Cultivated. Seed.
- PI 509333 donor id: 020785-0102. origin: Turkey. collected: July 02, 1985. locality: Harvested piles on road to Bozova, 10km from Urfa. elevation: 650m. remarks: Plants medium height. Seeds medium, spotted, red. Cultivated. Seed.
- PI 509334 donor id: 020785-0201. origin: Turkey. collected: July 02, 1985. locality: Threshed pile, road to new Ataturk Dam, 2km after Bozova turnoff. elevation: 590m. remarks: Seeds medium, spotted, red. Cultivated. Seed.
- PI 509335 donor id: 030785-0301. origin: Turkey. collected: July 03, 1985. locality: Threshing pile, Karacakaya, 4km after Tatarhoyiik village, Urfa Province. elevation: 550m. remarks: Seeds medium, red. Cultivated. Seed.
- PI 509336 donor id: 030785-0402. origin: Turkey. collected: July 03, 1985. locality: Field, harvested piles, Hoyuklu village, 6km after Karacakaya village, Urfa Province. elevation: 580m. remarks: Seeds red with few spots. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509337 donor id: 030785-0501. origin: Turkey. collected: July 03, 1985. locality: Piles in field, road to Tekage village, 2km after Yignak village, Urfa Province. elevation: 550m. remarks: Plants short. Seeds medium, red. Cultivated. Seed.
- PI 509338 donor id: 030785-0801. origin: Turkey. collected: July 03, 1985. locality: Near Firat River, Gulusogi village, Urfa Province. elevation: 430m. remarks: Seeds medium, red. Cultivated. Seed.
- PI 509339 donor id: 030785-0802. origin: Turkey. collected: July 03, 1985. locality: Threshing pile, Dikili village, along Firat River, 2km from Gulusogi village. elevation: 430m. remarks: Seeds medium, red. Cultivated. Seed.
- PI 509340 donor id: 030785-0901. origin: Turkey. collected: July 03, 1985. locality: Threshing pile, Gecibasi village, near Samsat and Firat rivers, Urfa Province. elevation: 410m. remarks: Seeds medium, red cotyledons. Cultivated. Seed.
- PI 509341 donor id: 030785-1001. origin: Turkey. collected: July 03, 1985. locality: Tavuk village near Samsat and Ataturk Dam, Urfa Province. elevation: 460m. remarks: Seeds medium, red cotyledons. Cultivated. Seed.
- PI 509342 donor id: 040785-0102. origin: Turkey. collected: July 04, 1985. locality: Threshing piles, Kazikli village, 17km after road separation at Adiyaman, Urfa Province. elevation: 550m. remarks: Plants medium height. Seeds medium, spotted, red cotyledons. Cultivated. Seed.
- PI 509343 donor id: 040785-0203. origin: Turkey. collected: July 04, 1985. locality: After Kalemlı village, Urfa Province. elevation: 550m. remarks: Plants medium height. Seeds larger than average, red cotyledons, some spotting and mottling. Cultivated. Seed.
- PI 509344 donor id: 040785-0204. origin: Turkey. collected: July 04, 1985. locality: Threshing piles, Burcalik village, Urfa Province. elevation: 530m. remarks: Seeds medium, red with spots. Cultivated. Seed.
- PI 509345 donor id: 040785-0301. origin: Turkey. collected: July 04, 1985. locality: Sahapeli village, W of Hilvan, Urfa Province. elevation: 540m. remarks: Seeds medium, red cotyledons, some mottled seed coats. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509346 donor id: 040785-0601. origin: Turkey. collected: July 04, 1985. locality: Threshing pile, Bagraç village, W of Hilvan, Urfa Province. elevation: 550m. remarks: Seeds medium, red cotyledons. Cultivated. Seed.
- PI 509347 donor id: 040785-0701. origin: Turkey. collected: July 04, 1985. locality: Threshing pile, Qimdelli village, Hilvan, Urfa Province. elevation: 580m. remarks: Plants short. Seeds medium, red cotyledons. Cultivated. Seed.
- PI 509348 donor id: 040785-0801. origin: Turkey. collected: July 04, 1985. locality: Salluca village, W of Hilvan, Urfa Province. elevation: 568m. remarks: Seeds provided by villagers, medium, red cotyledons. Cultivated. Seed.
- PI 509349 donor id: 040785-0802. origin: Turkey. collected: July 04, 1985. locality: Threshed pile, Hackikoy village, W of Hilvan, Urfa Province. elevation: 590m. remarks: Seeds medium, red cotyledons. Cultivated. Seed.
- PI 509350 donor id: 040785-0901. origin: Turkey. collected: July 04, 1985. locality: Threshing pile, Uluyazi village, W of Hilvan, Urfa Province. elevation: 540m. Cultivated. Seed.
- PI 509351 donor id: 040785-1001. origin: Turkey. collected: July 04, 1985. locality: Threshing pile, Oracik village, W of Hilvan, Urfa Province. elevation: 630m. remarks: Seeds medium, red cotyledons. Cultivated. Seed.
- PI 509352 donor id: 040785-0101. origin: Turkey. collected: July 04, 1985. locality: Villagers, Hayaz village, next to Ataturak Dam, Adiyaman Province. elevation: 380m. remarks: Seeds small to medium, red cotyledons. Cultivated. Seed.
- PI 509353 donor id: 050785-0103. origin: Turkey. collected: July 05, 1985. locality: Threshing pile, stony river loam soil within 100m of the Euphrates river, Hayaz village, near site of new Ataturk dam, Adiyaman Province. elevation: 380m. remarks: Seeds small to medium, red cotyledons. Cultivated. Seed.
- PI 509354 donor id: 050785-0104. origin: Turkey. collected: July 05, 1985. locality: Threshing pile, Birecik village, near site of new Ataturk dam, Adiyaman Province. elevation: 380m. remarks: Seeds small to medium, red cotyledons. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509355 donor id: 050785-0202. origin: Turkey. collected: July 05, 1985. locality: Near dam site, direction of Samsat 3km after Birecik village, Adiyaman Province. elevation: 510m. remarks: Plants harvested, well podded. Seeds small, red. Cultivated. Seed.
- PI 509356 donor id: 050785-0203. origin: Turkey. collected: July 05, 1985. locality: Threshing area, Kumluca village, near Firat river, Adiyaman Province. elevation: 370m. remarks: Seeds medium, red. Cultivated. Seed.
- PI 509357 donor id: 050785-0301. origin: Turkey. collected: July 05, 1985. locality: Threshed pile, Sutbulak village near Samsat, Adiyaman Province. elevation: 390m. remarks: Seeds small to medium, red cotyledons. Cultivated. Seed.
- PI 509358 donor id: 050785-0302. origin: Turkey. collected: July 05, 1985. locality: Threshing pile, Sutbulak village, Adiyaman Province. elevation: 390m. remarks: Seeds small to medium, red. Mixed with various unknown legume seeds. Cultivated. Seed.
- PI 509359 donor id: 050785-0403. origin: Turkey. collected: July 05, 1985. locality: Harvested pile, Tepeonii village, near Firat River, Samsat, Adiyaman Province. elevation: 440m. remarks: Plants short. Seeds grey, red cotyledon, some brown spotted. Cultivated. Seed.
- PI 509360 donor id: 060785-0201. origin: Turkey. collected: July 06, 1985. locality: Piles of dried plants in field, rocky calcareous soil, Ataturk dam on road to Adiyaman, 20km from DSI camp, Adiyaman Province. elevation: 550m. remarks: Seeds small, mostly grey seed coats and red cotyledons. Cultivated. Seed.
- PI 509361 donor id: 060785-0203. origin: Turkey. collected: July 06, 1985. locality: Red rocky soil from plants drying in piles, Ataturk dam on road to Adiyaman, 23km from DSI camp, Adiyaman Province. elevation: 580m. remarks: Seeds small, red cotyledons. Cultivated. Seed.
- PI 509362 donor id: 060785-0302. origin: Turkey. collected: July 06, 1985. locality: Calcareous soil, drying in piles in rocky field on old road 2km after separation of old and new roads to Adiyaman, Adiyaman Province. elevation: 470m. remarks: Seeds small to medium, red cotyledons. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509363 donor id: 060785-0502. origin: Turkey. collected: July 06, 1985. locality: Brown soil in farmers field from piles of dry plants on road to Kahta, 22km E from Adiyaman, Adiyaman Province. elevation: 560m. remarks: Seeds small to medium, red cotyledons, some greyish and spotted seed coat types. Cultivated. Seed.
- PI 509364 donor id: 060785-0701. origin: Turkey. collected: July 06, 1985. locality: Threshing pile, Oluklu village, near Kahta, Adiyaman Province. elevation: 560m. remarks: Seeds small with greyish seed coats. Cultivated. Seed.
- PI 509365 donor id: 060785-0801. origin: Turkey. collected: July 06, 1985. locality: Adiyaman Province. elevation: 605m. remarks: Seeds small, red with some speckling. Cultivated. Seed.
- PI 509366 donor id: 060785-0803. origin: Turkey. collected: July 06, 1985. locality: Adiyaman Province. elevation: 605m. remarks: Seeds small, red with some speckling. Cultivated. Seed.
- PI 509367 donor id: 060785-0901. origin: Turkey. collected: July 06, 1985. locality: Eskitas village, Adiyaman Province. elevation: 610m. remarks: Plants short. Seeds grey, red cotyledons. Cultivated. Seed.
- PI 509368 donor id: 060785-1002. origin: Turkey. collected: July 06, 1985. locality: Harvested plants in field, Dardagon Kahta village, near Firat river, Adiyaman Province. elevation: 540m. remarks: Seeds medium, red type. Seed coats grey with spots. Cultivated. Seed.
- PI 509369 donor id: 060785-1101. origin: Turkey. collected: July 06, 1985. locality: Piles, 5km after Dardagon village, Kahta, Adiyaman Province. elevation: 670m. remarks: Plants short, Seeds with red cotyledons. Seed coats grey with spots. Cultivated. Seed.
- PI 509370 donor id: 070785-0102. origin: Turkey. collected: July 07, 1985. locality: Dry soil, 17km after Kahta, toward Siverek, Adiyaman Province. elevation: 600m. remarks: Plants short, yield poor. Seeds small, red, with grey seedcoats. Cultivated. Seed.
- PI 509371 donor id: 070785-0201. origin: Turkey. collected: July 07, 1985. locality: Weedy, dry soil area, Mustafa-Cayor village, Kahta, Adiyaman Province. elevation: 570m. remarks: Plants short. Poor pod set. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509372 **donor id:** 070785-0302. **origin:** Turkey. **collected:** July 07, 1985. **locality:** Piles, Firat riverside, 4km after Mustafa-Cayor village, Kahta, Adiyaman Province. **elevation:** 410m. **remarks:** Plants small. Cotyledons red. Cultivated. Seed.
- PI 509373 **donor id:** 070785-0401. **origin:** Turkey. **collected:** July 07, 1985. **locality:** Piles, dry plants in farmers field on rocky red soil, 2km from Mardi village toward Siverek, Adiyaman Province. **elevation:** 510m. **remarks:** Seeds small, red cotyledons. Cultivated. Seed.
- PI 509374 **donor id:** 070785-0501. **origin:** Turkey. **collected:** July 07, 1985. **locality:** Piles, Basele village, Adiyaman Province. **elevation:** 550m. **remarks:** Plants short, weedy type. Cotyledons red. Cultivated. Seed.
- PI 509375 **donor id:** 070785-0601. **origin:** Turkey. **collected:** July 07, 1985. **locality:** Piles, main road from Kahta, 16km to Siverek, Urfa Province. **elevation:** 610m. **remarks:** Plants short. Seeds mottled with red cotyledons. Cultivated. Seed.
- PI 509376 **donor id:** 090785-0102. **origin:** Turkey. **collected:** July 09, 1985. **locality:** Piles, 11km after Diyarbakir toward Cinar, Diyarbakir Province. **elevation:** 645m. **remarks:** Plants short, well podded, very weedy. Seeds medium, red. Cultivated. Seed.
- PI 509377 **donor id:** 090785-0201. **origin:** Turkey. **collected:** July 09, 1985. **locality:** Threshing pile, red rocky soil, 23km S of Diyarbakir toward Cinar, Diyarbakir Province. **elevation:** 700m. **remarks:** Seeds small to medium, red cotyledons. Cultivated. Seed.
- PI 509378 **donor id:** 100785-0102. **origin:** Turkey. **collected:** July 10, 1985. **locality:** Threshing area, road from Diyarbakir, 69km to Silvan, Diyarbakir Province. **elevation:** 770m. **remarks:** Plants short. Seeds medium, red. Cultivated. Seed.
- PI 509379 **donor id:** 100785-0201. **origin:** Turkey. **collected:** July 10, 1985. **locality:** Pile of seeds harvested by combine, on road from Diyarbakir, 62km from Silvan, Diyarbakir Province. **elevation:** 650m. **remarks:** Seeds small to medium, red cotyledons, some with mottled seed coats. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509380 donor id: 100785-0301. origin: Turkey. collected: July 10, 1985. locality: Threshing pile at village, 56km from Silvan on Diyarbakir to Silvan road, Diyarbakir Province. elevation: 710m. remarks: Seeds small to medium, red cotyledons. Cultivated. Seed.
- PI 509381 donor id: 100785-0401. origin: Turkey. collected: July 10, 1985. locality: Threshing pile, 48km to Silvan from Diyarbakir, Diyarbakir Province. elevation: 750m. remarks: Plants short. Seeds medium, red cotyledon. Cultivated. Seed.
- PI 509382 donor id: 100785-0202. origin: Turkey. collected: July 11, 1985. locality: Piles of drying plants in farmer's field, red soil, 25km N of Diyarbakir on road to Elazig, Diyarbakir Province. elevation: 780m. remarks: Seed size mixed, mostly red seed coats and red cotyledons. Cultivated. Seed.
- PI 509383 donor id: 130785-0501. origin: Turkey. collected: July 13, 1985. locality: Near village of Pazaroren, 26km after Pinarbasi, Kayseri Province. elevation: 1400m. remarks: Plants short, planted in April, well podded. Seeds large, yellow, no mottling. Cultivated. Seed.
- PI 509384 donor id: 130785-0601. origin: Turkey. collected: July 13, 1985. locality: Piles, road to Kayseri, 7km after Bunyan, Kayseri Province. elevation: 1160m. remarks: Plants tall, well podded. Seeds large, green, no mottling. Cultivated. Seed.
- PI 509385 donor id: 150785-0301. origin: Turkey. collected: July 15, 1985. locality: 15km to Aksaray, from Nevsehir, Nevsehir Province. elevation: 1170m. remarks: Plants short, possibly winter type. Seeds thick, medium, yellow cotyledons. Cultivated. Seed.
- PI 509386 donor id: 150785-0401. origin: Turkey. collected: July 15, 1985. locality: 48km to Aksaray on road from Nevsehir, Nevsehir Province. elevation: 1200m. remarks: Plants medium, well podded. Seeds large, yellow, no mottling. Cultivated. Seed.
- PI 509387 donor id: 150785-0501. origin: Turkey. collected: July 15, 1985. locality: Piles, Yalman village, 43km to Aksaray from Nevsehir, Nidge Province. elevation: 1180m. remarks: Plants moderately tall and upright. Seeds mostly large, some small, yellow, no mottling. Cultivated. Seed.
- PI 509388 donor id: 150785-0603. origin: Turkey. collected: July 15, 1985. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509389 donor id: 150785-0701. origin: Turkey. collected: July 15, 1985. locality: Piles, 32km to Aksaray from Nevsehir, Nidge Province. elevation: 1170m. remarks: Plants medium, not well podded. Seeds medium to large, yellow, no mottling. Cultivated. Seed.
- PI 509390 donor id: 150785-0801. origin: Turkey. collected: July 15, 1985. locality: Bebek village, 18km to Aksaray on road from Nevsehir, Nidge Province. elevation: 1200m. remarks: Plants short, well podded. Seeds large, yellow. Cultivated. Seed.
- PI 509391 donor id: 150785-0901. origin: Turkey. collected: July 15, 1985. locality: Threshing area, 16km to Aksaray on road from Nevsehir, Nidge Province. elevation: 1200m. remarks: Plants tall. Seeds large, yellow. Cultivated. Seed.
- PI 509392 donor id: 150785-1101. origin: Turkey. collected: July 15, 1985. locality: Piles of dried plants in rocky field, on the Aksaray-Konya road, 90km to Konya, Konya Province. elevation: 920m. remarks: Seeds large, yellow cotyledons. Cultivated. Seed.
- PI 509393 donor id: 150785-1102. origin: Turkey. collected: July 15, 1985. locality: Road to Aksaray, 80km to Konya, Konya Province. elevation: 970m. remarks: Seeds large, yellow cotyledons. May be salt tolerant. Cultivated. Seed.
- PI 509394 donor id: 160785-0601. origin: Turkey. collected: July 16, 1985. locality: Road from Beysehir, 22km to Sedisehir, Konya Province. elevation: 1110m. remarks: Plants short, well podded. Seeds mostly medium to small, yellow, no mottling. Cultivated. Seed.
- PI 509395 donor id: 160785-0701. origin: Turkey. collected: July 16, 1985. locality: Field, road to Konya, 10km from Seydisehir, Konya Province. elevation: 1050m. remarks: Seeds variable with green cotyledons. Cultivated. Seed.
- PI 509396 donor id: 170785-0102. origin: Turkey. collected: July 17, 1985. locality: Road from Konya, 67km to Chanbeyli, Konya Province. elevation: 920m. Cultivated. Seed.
- PI 509397 donor id: 170785-0201. origin: Turkey. collected: July 17, 1985. locality: Road from Konya, 9km after Kulu, Konya Province. elevation: 960m. remarks: Plants tall, upright, well podded. Seeds large, yellow cotyledons. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509398 donor id: 170785-0301. origin: Turkey. collected: July 17, 1985. locality: Kochiser village, 7km from intersection of Ankara-Serefli, toward Serefli, Konya Province. elevation: 870m. remarks: Thin stand. Plants short, upright, well podded. Seeds large, green. Cultivated. Seed.
- PI 509399 donor id: 170785-0501. origin: Turkey. collected: July 17, 1985. locality: Threshed pile, Acikiyu village, 13km to Hirfanli Birage, Ankara Province. elevation: 820m. remarks: Seeds large, yellow cotyledons. Good type. Cultivated. Seed.
- PI 509400 donor id: 170785-0601. origin: Turkey. collected: July 17, 1985. locality: Harvested piles, 8km to Hirfanli from Acikiyu village. elevation: 870m. remarks: Plants tall, upright. Seeds variable, some medium, some large, yellow cotyledons. Cultivated. Seed.
- PI 509401 donor id: 170785-0801. origin: Turkey. local name: Sulton mercimek. collected: July 17, 1985. locality: Harvested piles, Savcili Meryen Kasi village, 4km to Kawan from south, Kirsehir Province. elevation: 1010m. remarks: Plants well podded. Seeds medium to large, yellow cotyledons. Cultivated. Seed.
- PI 509402 donor id: 170785-0802. origin: Turkey. collected: July 17, 1985. remarks: Red cotyledons. Cultivated. Seed.
- PI 509403 donor id: 170785-1001. origin: Turkey. collected: July 17, 1985. locality: Daricik, 4km after Kaman on road to Kirsehir Province. elevation: 990m. remarks: Plants tall, upright, well podded. Seeds variable, mostly large, yellow cotyledons. Cultivated. Seed.
- PI 509404 donor id: 170785-1102. origin: Turkey. collected: July 17, 1985. locality: 16km to Kirsehir, Kirsehir Province. elevation: 1020m. Cultivated. Seed.
- PI 509405 donor id: 180785-0101. origin: Turkey. collected: July 18, 1985. locality: 38km to Cicek dagi from the intersection of Yozgat-Kirsehir roads, Kirsehir Province. elevation: 1160m. remarks: Plants tall, upright. Seeds large, yellow cotyledons. Cultivated. Seed.
- PI 509406 donor id: 180785-0202. origin: Turkey. collected: July 18, 1985. locality: 2km after Yerkoy village toward Yozgat, Yozgat Province. elevation: 800m. remarks: Plants tall. Seeds large, green. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509407 **donor id:** 180785-0502. **origin:** Turkey. **local name:** Sultan. **collected:** July 18, 1985. **remarks:** Seeds from storage. Cultivated. Seed.
- PI 509408 **donor id:** 180785-0601. **origin:** Turkey. **collected:** July 18, 1985. **locality:** Piles, Sazlidere village, 19km to Akdagmaden, Yozgat Province. **elevation:** 1300m. **remarks:** Plants medium, well podded. Seeds mostly large, yellow. Cultivated. Seed.
- PI 509409 **donor id:** 180785-0701. **origin:** Turkey. **collected:** July 18, 1985. **locality:** Threshing pile, road from Sazlidere, 11km to Akdagmaden, Yozgat Province. **elevation:** 1300m. **remarks:** Seeds large, yellow. Cultivated. Seed.
- PI 509410 **donor id:** 180785-0801. **origin:** Turkey. **collected:** July 18, 1985. **locality:** 40km to Tokat from intersection of Tokat-Swas roads, Tokat Province. **elevation:** 1350m. **remarks:** Plants short, not well podded. Seeds large and thick, yellow cotyledons. Cultivated. Seed.
- PI 509411 **donor id:** 190785-0201. **origin:** Turkey. **collected:** July 19, 1985. **locality:** Field, 17km to Almus from Tokat, Tokat Province. **elevation:** 1100m. **remarks:** Plants short, not well podded. Seeds large and thick, yellow cotyledons. Cultivated. Seed.
- PI 509412 **donor id:** 200785-0101. **origin:** Turkey. **collected:** July 20, 1985. **locality:** From storage, Saribeigday village, 14km after Merzifon toward Corum. **elevation:** 500m. **remarks:** Seeds large, green, yellow cotyledons. Cultivated. Seed.
- PI 509413 **donor id:** 200785-0201. **origin:** Turkey. **collected:** July 20, 1985. **locality:** Harvested piles, Kizileyrek village, 24km after Merzifon toward Corum, Amasya Province. **elevation:** 700m. **remarks:** Plants tall, upright, well podded, mostly 2 seeds per pod. Seeds green, yellow cotyledons. Cultivated. Seed.
- PI 509414 **donor id:** 200785-0202. **origin:** Turkey. **collected:** July 20, 1985. **locality:** Kizileyrek village, 24km after Merzifon toward Corum, Amasya Province. **elevation:** 700m. Cultivated. Seed.
- PI 509415 **donor id:** 200785-0304. **origin:** Turkey. **collected:** July 20, 1985. **locality:** Selimiye village, 29km after Merzifon toward Corum, Amasya Province. **elevation:** 950m. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509416 donor id: 200785-0404. origin: Turkey. collected: July 20, 1985. locality: Seed store, Kamislikuyu, 16km from Merzifon on road to Corum, Amasya Province. elevation: 580m. remarks: Seeds medium to large, green, yellow cotyledons. Cultivated. Seed.
- PI 509417 donor id: 200785-0405. origin: Turkey. collected: July 20, 1985. locality: Kamislikuyu village, 16km from Merzifon on road to Corum, Amasya Province. elevation: 580m. remarks: Seeds medium, green, yellow cotyledons. Cultivated. Seed.
- PI 509418 donor id: 200785-0501. origin: Turkey. collected: July 20, 1985. locality: 31km to Corum from Merzifon, Corum Province. elevation: 950m. remarks: Plants tall, well podded. Seeds large, green, yellow cotyledons. Cultivated. Seed.
- PI 509419 donor id: 210785-0101. origin: Turkey. collected: July 21, 1985. locality: Harvested in piles, 45km to Iskilip from Corum, Corum Province. elevation: 850m. remarks: Plants tall, upright, well podded, mostly two seeds per pod. Seeds green, yellow cotyledons. Cultivated. Seed.
- PI 509420 donor id: 210785-0301. origin: Turkey. collected: July 21, 1985. locality: Threshing area, road from Corum to Cankiri, 2km after turnoff to Bayat, Corum Province. elevation: 500m. remarks: Plants well podded. Seeds large, green. Cultivated. Seed.
- PI 509421 donor id: 210785-0501. origin: Turkey. collected: July 21, 1985. locality: Threshing area, road from Corum to Cankiri Province border between Corum and Cankiri, Cankiri Province. elevation: 500m. remarks: Seeds large, green, from one plant. Cultivated. Seed.
- PI 509422 donor id: 210785-08. origin: Turkey. collected: July 21, 1985. remarks: Seeds large, green. Cultivated. Seed.
- PI 509423 donor id: 210785-0801. origin: Turkey. collected: July 21, 1985. locality: Piles, 55km to Ankara from Kalecik, Cankiri Province. elevation: 1100m. remarks: Plants medium, well podded. Seeds medium, red cotyledons. Grower indicated good cooking type. Cultivated. Seed.
- PI 509424 donor id: 220785-0102. origin: Turkey. collected: July 22, 1985. remarks: Field variable, fall planted, good survival. Plants well branched and podded. Seeds red and yellow, from four plants. Cultivated. Seed.

PI 509315 to 509432-continued

- PI 509425 donor id: 220785-0202. origin: Turkey. collected: July 22, 1985. remarks: Seeds small, yellow. Cultivated. Seed.
- PI 509426 donor id: 220785-0301. origin: Turkey. collected: July 22, 1985. locality: Threshing pile, on way from Ankara to Afyon, 2km after Bayat, Afyon Province. elevation: 1020m. remarks: Plants mostly intermediate in height, variable, some well podded, yellow cotyledons, some dark seed coats. Cultivated. Seed.
- PI 509427 donor id: 220785-0401. origin: Turkey. collected: July 22, 1985. locality: Piles in field, 24km to Afyon on road from Ankara, Afyon Province. elevation: 1060m. remarks: Plants well podded. Seeds mostly small, yellow, some red. Cultivated. Seed.
- PI 509428 donor id: 230785-0201. origin: Turkey. collected: July 23, 1985. locality: Piles in field, 21km from Dinar on way to Afyon, Afyon Province. elevation: 910m. remarks: Plants short, well podded. Seeds small, yellow cotyledons. Cultivated. Seed.
- PI 509429 donor id: 230785-0401. origin: Turkey. collected: July 23, 1985. locality: Storage, Sandikli-Ekinova village, on way from Dinar to Afyon, Afyon Province. elevation: 1010m. remarks: Seeds small, coat color variable, red and yellow cotyledons. Cultivated. Seed.
- PI 509430 donor id: 240785-1101. origin: Turkey. collected: July 24, 1985. locality: Piles, 50km from Burdur on way to Yesilova, Burdur Province. elevation: 1250m. remarks: Plants well podded. Seeds small, yellow. Cultivated. Seed.
- PI 509431 donor id: 250785-0101. origin: Turkey. collected: July 25, 1985. locality: Towards Acipayam, 3km after Acipayam State Farm, Denizli Province. elevation: 900m. remarks: Seeds large, yellow. Cultivated. Seed.
- PI 509432 donor id: 270785-0201. origin: Turkey. collected: July 27, 1985. locality: Piles in field, Toprak village, 40km from Eskisehir on road from Kutahya, Kutahya Province. elevation: 1000m. remarks: Plants variable, some with small seeds, some large, yellow cotyledons. Cultivated. Seed.

PI 509433 to 509435. *Daucus carota* subsp. *sativus* (Hoffm.) Arcang.
APIACEAE Carrot

Donated by: Aegean Regional Agricultural Res. Inst., P.O. Box 9, Menemen, Izmir, Turkey. **remarks:** Received through P.W. Simon, USDA-ARS, Dept. of Horticulture, Univ. of Wisconsin, Madison, Wisconsin. Received April 01, 1986.

PI 509433 **donor id:** TR 35279. **origin:** Turkey. **local name:** Kirmizi-siyah havuc (Red-black carrot). **collected:** 1972. **locality:** Market, Urfa Province. **remarks:** Leaves wide. Roots purple and white. Landrace. Seed.

PI 509434 **donor id:** TR 39581. **origin:** Turkey. **local name:** Kirmizi havuc (Red carrot). **collected:** 1976. **locality:** Market, 2km E of Sivas, Sivas Province. **remarks:** Leaves wide. Roots purple and white. Landrace. Seed.

PI 509435 **donor id:** TR 40364. **origin:** Turkey. **local name:** Havuc (carrot). **collected:** 1978. **locality:** Nursaybin, 78km E of Mardin, Mardin Province. **remarks:** Leaves wide. Roots white or pale orange. Landrace. Seed.

PI 509436. *Guizotia abyssinica* (L. f.) Cass. ASTERACEAE Niger

Donated by: Trivedi, H.B.P., Dept. of Plant Breeding & Genetics, Birsa Agril. University, Kanke, Ranchi BIHAR, India. **remarks:** Received through National Bureau of Plant Genetic Resources, New Delhi. Received June 05, 1987.

origin: India. **cultivar:** N-5. Cultivar. Seed.

PI 509437. *Agrostis tenuis* Sibth. POACEAE Colonial bentgrass

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 04, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509438. *Arrhenatherum elatius* Met. & W. Koch POACEAE Tall oatgrass

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 07, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509439. *Briza media* L. POACEAE Perennial quaking grass

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 04, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509440. *Calamagrostis arundinacea* (L.) Roth POACEAE

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 07, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509441. *Cynosurus cristatus* L. POACEAE

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 04, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509442. *Deschampsia caespitosa* (L.) Beauv. POACEAE Tufted hairgrass

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 04, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509443. *Elymus caninus* (L.) L. POACEAE

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 07, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. **received as:** *Agropyron caninum*. Wild. Seed.

PI 509444. *Genista sagittalis* L. FABACEAE

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 04, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509445. *Holcus lanatus* L. POACEAE Velvetgrass

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from D.M. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

PI 509445-continued

origin: Romania. **collected:** August 04, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509446. *Trifolium hybridum* L. FABACEAE Alsike clover

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 03, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509447: *Trifolium montanum* L. FABACEAE

Donated by: Turcu, G., Catedra de Botanica, Inst. Agronomic N. Balcescu, B'dul Marasti Nr. 59, Bucharest, Romania. **remarks:** Received from M.D. Rumbaugh, Forage and Range Research Lab., USDA-ARS, Utah State University, Logan, Utah. Received May 21, 1987.

origin: Romania. **collected:** August 04, 1986. **locality:** Borsec, Harghita. **latitude:** 46 deg. 57 min. N. **longitude:** 25 deg. 34 min. E. **elevation:** 900m. Wild. Seed.

PI 509448 to 509450. *Glycine arenaria* Tind. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. **remarks:** Accessions part of a *Glycine* core collection. Received May 26, 1987.

PI 509448 **donor id:** G1305. **origin:** Australia. **locality:** "Carlton Hill" Station, 50km NW of Kununurra, Western Australia. Wild. Seed.

PI 509449 **donor id:** G1931. **origin:** Australia. **locality:** Kimberly Research Station Enclosure, 35km N of Kununurra, Western Australia. Wild. Seed.

PI 509450 **donor id:** G1949. **origin:** Australia. **locality:** Weaber Range, 60km N of Kununurra, Western Australia. Wild. Seed.

PI 509451 to 509452. *Glycine argyrea* Tind. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. remarks:
Accessions part of a *Glycine* core collection. Received May 26,
1987.

PI 509451 donor id: G1622. origin: Australia. locality: 3km SE of
Rainbow Beach, Queensland. Wild. Seed.

PI 509452 donor id: G1626. origin: Australia. locality: Cooloola
National Park, 7km N of Freshwater Camping Area,
Queensland. Wild. Seed.

PI 509453 to 509459. *Glycine canescens* F. J. Herm. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. remarks:
Accessions part of a *Glycine* core collection. Received May 26,
1987.

PI 509453 donor id: G1232. origin: Australia. locality: Cobham
Lake, 240km N of Broken Hill, New South Wales. Wild.
Seed.

PI 509454 donor id: G1270. origin: Australia. locality: Coligram,
Victoria. Wild. Seed.

PI 509455 donor id: G1482. origin: Australia. locality: North
Pool, Wiluna, Western Australia. Wild. Seed.

PI 509456 donor id: G1485. origin: Australia. locality: 35km S of
Peak Hill, Western Australia. Wild. Seed.

PI 509457 donor id: G1500. origin: Australia. locality: Warialda,
New South Wales. Wild. Seed.

PI 509458 donor id: G1672. origin: Australia. locality: Stanley
Chasm, Northern Territory. Wild. Seed.

PI 509459 donor id: G1966. origin: Australia. locality: 6km N of
Enngonia, New South Wales. Wild. Seed.

PI 509460 to 509470. *Glycine clandestina* Wendl. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. remarks:
Accessions part of a *Glycine* core collection. Received May 26,
1987.

PI 509460 donor id: G1001. origin: Australia. locality: Black
Mountain, Australian Capital Territory. Wild. Seed.

PI 509461 donor id: G1031. origin: Australia. locality: Tinderry
Ranges, S of Queanbeyan, New South Wales. Wild. Seed.

PI 509460 to 509470-continued

- PI 509462 donor id: G1035. origin: Australia. locality: Lobs Hole Road, Cabramurra, New South Wales. Wild. Seed.
- PI 509463 donor id: G1175. origin: Australia. locality: 16km E of Ellenborough Falls, New South Wales. Wild. Seed.
- PI 509464 donor id: G1225. origin: Australia. locality: Kangaroo R. Bridge, 8km E of Robertson, New South Wales. Wild. Seed.
- PI 509465 donor id: G1558. origin: Australia. locality: Crackneck Reserve, Bateau Bay, New South Wales. Wild. Seed.
- PI 509466 donor id: G1575. origin: Australia. locality: Casino Abattoirs, New South Wales. Wild. Seed.
- PI 509467 donor id: G1659. origin: Australia. locality: 12km S of Stanthorpe, Queensland. Wild. Seed.
- PI 509468 donor id: G1664. origin: Australia. locality: 3km S of Rainbow Beach, Queensland. Wild. Seed.
- PI 509469 donor id: G1899. origin: Australia. locality: 1 km N of Comerloy Road, New South Wales. Wild. Seed.
- PI 509470 donor id: G1961. origin: Australia. locality: 1 km E of Hermidale, 45km W of Nyngan, New South Wales. Wild. Seed.

PI 509471. *Glycine curvata* Tind. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. remarks: Accessions part of a *Glycine* core collection. Received May 26, 1987.

donor id: G1396. origin: Australia. locality: 14km SE of Marseeba, Queensland. Wild. Seed.

PI 509472. *Glycine cyrtoloba* Tind. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. remarks: Accessions part of a *Glycine* core collection. Received May 26, 1987.

donor id: G1729. origin: Australia. locality: 2.3km S of Rainbow Beach, Queensland. Wild. Seed.

PI 509473 to 509475. *Glycine falcata* Benth. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. **remarks:**
Accessions part of a *Glycine* core collection. Received May 26,
1987.

PI 509473 **donor id:** G2082. **origin:** Australia. **locality:** Capella
Creek, Capella, Queensland. Wild. Seed.

PI 509474 **donor id:** G2085. **origin:** Australia. **locality:** 2km W of
Comet, Comet River, Queensland. Wild. Seed.

PI 509475 **donor id:** G2086. **origin:** Australia. **locality:** Coruna
Bore, 16km N of Barcaldine. Wild. Seed.

PI 509476 to 509480. *Glycine latifolia* (Benth.) C. Newell & Hymowitz
FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. **remarks:**
Accessions part of a *Glycine* core collection. Received May 26,
1987.

PI 509476 **donor id:** G1160. **origin:** Australia. **locality:** Warwick,
Queensland. Wild. Seed.

PI 509477 **donor id:** G1179. **origin:** Australia. **locality:**
Goombungee, Queensland. Wild. Seed.

PI 509478 **donor id:** G1213. **origin:** Australia. **locality:** 10km N of
Burren Junction, New South Wales. Wild. Seed.

PI 509479 **donor id:** G1466. **origin:** Australia. **locality:** 8km W of
Mungalla, Queensland. Wild. Seed.

PI 509480 **donor id:** G1909. **origin:** Australia. **locality:** Mullaby,
15km E and 49km NE of Coonabarabran, New South Wales.
Wild. Seed.

PI 509481 to 509482. *Glycine latrobeana* (Meissner) Benth. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. **remarks:**
Accessions part of a *Glycine* core collection. Received May 26,
1987.

PI 509481 **donor id:** G1900. **origin:** Australia. **locality:** Upper
Ouse River, 6km W of Miena, Tasmania. Wild. Seed.

PI 509482 **donor id:** G1920. **origin:** Australia. **locality:** Mt.
Crawford Forest Reserve, South Australia. Wild. Seed.

PI 509483 to 509489. *Glycine microphylla* (Benth.) Tind. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. **remarks:**
Accessions part of a *Glycine* core collection. Received May 26,
1987.

- PI 509483 **donor id:** G1173. **origin:** Australia. **locality:**
Ellensborough Falls, New South Wales. Wild. Seed.
- PI 509484 **donor id:** G1272. **origin:** Australia. **locality:** Bunya
Mountains, Dalby, Queensland. Wild. Seed.
- PI 509485 **donor id:** G1479. **origin:** Australia. **locality:** Cronulla,
25km S of Sydney, New South Wales. Wild. Seed.
- PI 509486 **donor id:** G1555. **origin:** Australia. **locality:** Yen Yean
Reservoir, 30km N of Melbourne, Victoria. Wild. Seed.
- PI 509487 **donor id:** G1590. **origin:** Australia. **locality:** 13km W of
Woodenbong, New South Wales. Wild. Seed.
- PI 509488 **donor id:** G1830. **origin:** Australia. **locality:** Tomoulin,
Queensland. Wild. Seed.
- PI 509489 **donor id:** G1901. **origin:** Australia. **locality:** Upper
Ouse River, 6km W of Miena, Tasmania. Wild. Seed.

PI 509490 to 509498. *Glycine tabacina* (Labill.) Benth. FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. **remarks:**
Accessions part of a *Glycine* core collection. Received May 26,
1987.

- PI 509490 **donor id:** G1538. **origin:** Australia. **locality:** 5km S of
Helidon, Queensland. **remarks:** 2x chromosome no. = 40.
Wild. Seed.
- PI 509491 **donor id:** G1545. **origin:** Australia. **locality:** Mt.
Tamborine, 15km W of Oxenford, Queensland. **remarks:** 2x
chromosome no. = 40. Wild. Seed.
- PI 509492 **donor id:** G1075. **origin:** Australia. **locality:** Mt.
Painter, Cook, Australian Capital Territory. **remarks:** 4x
chromosome no. = 80. Wild. Seed.
- PI 509493 **donor id:** G1208. **origin:** Australia. **locality:** Broulee
Beach, New South Wales. **remarks:** 4x chromosome no. = 80.
Wild. Seed.
- PI 509494 **donor id:** G1234. **origin:** Australia. **locality:** Tamworth,
New South Wales. **remarks:** 4x chromosome no. = 80. Wild.
Seed.

PI 509490 to 509498-continued

PI 509495 **donor id:** G1254. **origin:** Australia. **locality:** Morven, 2km NE and 10km E of Culcairn, New South Wales. **remarks:** 4x chromosome no. = 80. Wild. Seed.

PI 509496 **donor id:** G1262. **origin:** Australia. **locality:** Warwick, Queensland. **remarks:** 4x chromosome no. = 80. Wild. Seed.

PI 509497 **donor id:** G1503. **origin:** Australia. **locality:** 18km S of Coonabarabran and 1 km along Mendooran road, New South Wales. **remarks:** 4x chromosome no. = 80. Wild. Seed.

PI 509498 **donor id:** G1706. **origin:** Australia. **locality:** Mt. Crawford Forest Reserve, South Australia. **remarks:** 4x chromosome no. = 80. Wild. Seed.

PI 509499 to 509502. *Glycine tomentella* Hayata FABACEAE

Donated by: Brown, A.H.D., CSIRO, Canberra, Australia. **remarks:** Accessions part of a *Glycine* core collection. Received May 26, 1987.

PI 509499 **donor id:** G1413. **origin:** Australia. **locality:** 20km SW of Mt. Garnett, Queensland. **remarks:** 2x chromosome no. = 40. Wild. Seed.

PI 509500 **donor id:** G1398. **origin:** Australia. **locality:** Emu Creek, Petford, Queensland. **remarks:** 4x chromosome no. = 80. Wild. Seed.

PI 509501 **donor id:** G1487. **origin:** Australia. **locality:** Station Creek, 53km SW of Narrabri, New South Wales. **remarks:** 4x chromosome no. = 80. Cultivated. Seed.

PI 509502 **donor id:** G1969. **origin:** Australia. **locality:** Marthaguy Creek, 13km W of Gilgandra, New South Wales. **remarks:** 4x chromosome no. = 80. Wild. Seed.

PI 509503. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Sunderman, D.W., Aberdeen Research and Extension Center, P.O. Box AA, Aberdeen, Idaho, United States. Received June 19, 1987.

PI 509503-continued

donor id: ID0332. **origin:** United States. **cultivar:** Survivor. **pedigree:** II-60-156/CI14107//Itana/5/Norin 10//Anahvac/Balilla/487/3/ Winalta/4/Moran. **remarks:** Plants tall, awned with moderately weak straw and erect to inclined heads. Heads green at flowering, white at maturity. Hard, red type. Milling and baking quality satisfactory. **disease resistance:** Moderately resistant to dwarf bunt. Outstanding tolerance to snow mold. Winter Annual. Cultivar. Seed.

PI 509504 to 509512. *Linum usitatissimum* L. LINACEAE Flax

Donated by: Miller, J.F., USDA-ARS, North Dakota State University, Walster Hall, Fargo, North Dakota, United States. Received June 19, 1987.

PI 509504 **origin:** Romania. **origin institute:** Res. Inst. Cereals and Technical Plants. **cultivar:** U-p-h. Cultivar. Seed.

PI 509505 **origin:** Romania. **origin institute:** Res. Inst. Cereals and Technical Plants. **cultivar:** SG-521. Cultivar. Seed.

PI 509506 **origin:** Romania. **origin institute:** Res. Inst. Cereals and Technical Plants. **cultivar:** SG-620. Cultivar. Seed.

PI 509507 **origin:** Romania. **origin institute:** Res. Inst. Cereals and Technical Plants. **cultivar:** Av-d. Cultivar. Seed.

PI 509508 **origin:** Romania. **origin institute:** Res. Inst. Cereals and Technical Plants. **cultivar:** K-y. Cultivar. Seed.

PI 509509 **origin:** Hungary. **origin institute:** Cereal Research Institute. **cultivar:** Szegedi 30. Cultivar. Seed.

PI 509510 **origin:** Hungary. **origin institute:** Cereal Research Institute. **cultivar:** Szegedi 43. Cultivar. Seed.

PI 509511 **origin:** Hungary. **origin institute:** Cereal Research Institute. **cultivar:** Szegedi 62. Cultivar. Seed.

PI 509512 **origin:** Hungary. **origin institute:** Cereal Research Institute. **cultivar:** Kiszombori 41. Cultivar. Seed.

PI 509513 to 509514. *Sorghum* sp. POACEAE

Donated by: Stewart, J.M., USDA-ARS, Dept. of Plant & Soil Science, University of Tennessee, P.O. Box 1071, Knoxville, Tennessee, United States. Received June 08, 1987.

PI 509513 to 509514-continued

PI 509513 donor id: CFS-45. origin: Australia. collected: June 2, 1985. collector: L. Craven, P. Fryxell, J. Stewart. other id: QIN 86-50. locality: Common in sandstone and laterite areas, Koolan Island, Yampi Sound, Western Australia. remarks: Plant to 2.5M tall, probably undescribed species. Perennial. Wild. Seed.

PI 509514 donor id: CFS-60. origin: Australia. collected: June 7, 1985. collector: L. Craven, P. Fryxell, J. Stewart. other id: QIN 86-51. locality: Open sandy area surrounded by eucalypt woodland, sandstone country, 10km south of Swift Bay, off Montague Sound, Western Australia. latitude: 14 deg. 39 min. S. longitude: 125 deg. 32 min. E. remarks: Plant to 1.5M tall. Seeds few. Wild. Seed.

PI 509515. *Sorghum stipoideum* (Ewart & J. W. White) C. Gardner & C. E. Hubb. POACEAE

Donated by: Stewart, J.M., USDA-ARS, Dept. of Plant & Soil Science, University of Tennessee, P.O. Box 1071, Knoxville, Tennessee, United States. Received June 08, 1987.

donor id: CFS-35. origin: Australia. collected: May 29, 1985. collector: L. Craven, P. Fryxell, J. Stewart. other id: QIN 86-49. locality: Sandy soil, coastal plain, 12km N of Great Northern Highway on Beagle Bay Road, NE of Broome, Western Australia. remarks: Plants to 1.5M tall, many smaller ones. Annual. Wild. Seed.

PI 509516 to 509517. *Zea mays* subsp. *mexicana* (Schradler) Iltis POACEAE
Teosinte

Donated by: White, G.A., Germplasm Introduction & Evaluation Lab., USDA-ARS, Beltsville, Maryland, United States. Received May 15, 1986.

PI 509516 origin: Mexico. local name: Chalco Teosinte. collected: May 10, 1986. collector: G. Wilkes and G.A. White. locality: Roadside cornfield, light sandy soil, Temamatla, Tenango del Aire, Edo de Mexico. elevation: 2250m. remarks: Race: Chalqueno, weedy. Seed mature October-November but upright plants still retain some seed. Wild. Seed.

PI 509516 to 509517-continued

PI 509517 donor id: UNKNOWN. origin: Mexico. local name: Balsas Teosinte. collected: May 10, 1986. collector: G. Wilkes and G.A. White. locality: Brown clay soil, soft, stone buttes, Amatlan Morelos, 7km from Tepoztlan. elevation: 1650m. remarks: Race: Ancho. Seed mature October-November but upright plants still retained same seed. Wild. Seed.

PI 509518. *Oryza sativa* L. POACEAE Rice

Donated by: Rice Research and Extension Center, University of Arkansas, Stuttgart, Arkansas, United States. remarks: Rice Germplasm Rejuvenation Project (1983-1987, T.H. Johnston, Technical Supervisor). Received June 4, 1987.

donor id: GP-20315. origin: UNKNOWN. cultivar: UNKN LGVR (Not IR 8). remarks: Not PI431424 - used for special studies, Botany Department, Purdue University, Erroneously labeled IR 8. Cultivated. Seed.

PI 509519 to 509525. *Lactuca saligna* L. ASTERACEAE

Donated by: Whitaker, T.W., USDA-ARS, P.O. Box 150, La Jolla, California, United States; and Provvidenti, R., Dept. of Plant Pathology, New York State Agricultural Expt. Sta., Geneva, New York, United States. Received October 1984.

PI 509519 donor id: W-P 233. origin: Greece. local name: Wild lettuce. collected: July 18, 1983. collector: G. Apostolatos. locality: Saint Nicolas, Messima. remarks: Seeds black. Wild. Seed.

PI 509520 donor id: W-P 236. origin: Greece. local name: Wild lettuce. collected: July 26, 1983. collector: G. Apostolatos. locality: Andrairida Ilias. remarks: Seeds brownish. Wild. Seed.

PI 509521 donor id: W-P 238. origin: Greece. local name: Wild lettuce. collected: August 06, 1983. collector: G. Apostolatos. locality: Naupaktos. remarks: Seeds brownish. Wild. Seed.

PI 509522 donor id: W-P 239. origin: Greece. local name: Wild lettuce. collected: August 07, 1983. collector: G. Apostolatos. locality: Eratini Paleidos. remarks: Seeds brownish. Wild. Seed.

PI 509519 to 509525-continued

- PI 509523 donor id: W-P 242. origin: Greece. local name: Wild lettuce. collected: August 20, 1983. collector: G. Apostolatos. locality: Vitina. elevation: 1100m. remarks: Seeds black. Wild. Seed.
- PI 509524 donor id: W-P 246. origin: Greece. local name: Wild lettuce. collected: August 28, 1983. collector: G. Apostolatos. locality: Patras. remarks: Seeds black. Wild. Seed.
- PI 509525 donor id: W-P 247. origin: Greece. local name: Wild lettuce. collected: September 05, 1983. collector: G. Apostolatos. locality: Corfu. remarks: Seeds black. Wild. Seed.

PI 509526 to 509532. *Lactuca serriola* L. ASTERACEAE

Donated by: Whitaker, T.W., USDA-ARS, P.O. Box 150, La Jolla, California, United States; and Provvidenti, R., Dept. of Plant Pathology, New York State Agricultural Expt. Sta., Geneva, New York, United States. Received October 1984.

- PI 509526 donor id: W-P 234. origin: Greece. local name: Wild lettuce. collected: July 23, 1983. collector: G. Apostolatos. locality: Susaki, Korinthias. remarks: Seeds brownish. Wild. Seed.
- PI 509527 donor id: W-P 235. origin: Greece. local name: Wild lettuce. collected: July 23, 1983. collector: G. Apostolatos. locality: Dervenii, Korinthias. remarks: Seeds black. Wild. Seed.
- PI 509528 donor id: W-P 237. origin: Greece. local name: Wild lettuce. collected: August 06, 1983. collector: G. Apostolatos. locality: Naupaktos. remarks: Seeds brownish. Wild. Seed.
- PI 509529 donor id: W-P 241. origin: Greece. local name: Wild lettuce. collected: August 20, 1983. collector: G. Apostolatos. locality: Vitina. elevation: 1100m. remarks: Seeds black. Wild. Seed.
- PI 509530 donor id: W-P 243. origin: Greece. local name: Wild lettuce. collected: August 21, 1983. collector: G. Apostolatos. locality: Maguliana Arkadras. elevation: 1200m. remarks: Seeds black. Wild. Seed.
- PI 509531 donor id: W-P 244. origin: Greece. local name: Wild lettuce. collected: August 28, 1983. collector: G. Apostolatos. locality: Athens. remarks: Seeds black. Wild. Seed.

PI 509526 to 509532-continued

PI 509532 donor id: W-P 245. origin: Greece. local name: Wild lettuce. collected: August 27, 1983. collector: G. Apostolatos. locality: Patras. remarks: Seeds brownish. Wild. Seed.

PI 509533. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Miller, R.D., Tobacco Experiment Station, University of Tennessee, Route 5, Box 113, Greeneville, Tennessee, United States. Received June 18, 1987.

donor id: TXF 811. origin: United States. cultivar: DF-485. pedigree: DF 300/D70-981. other id: CV-96. group: CSR-TOBACCO. remarks: Cured leaf dark brown. Under wet conditons, lower leaf undesirable greenish color. Adapted for production of dark fire-cured tobacco in middle Tennessee and west Kentucky. Chemical components within acceptable ranges. disease resistance: High to black root rot and wildfire. Medium to Races 0 and 1 of black shank. High to tobacco mosaic virus. Cultivar. Seed.

PI 509534 to 509535. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Woodward, W.T.W., Pioneer Hi-Bred International, Inc., P.O. Box 287, Johnston, Iowa, United States. Received June 18, 1987.

PI 509534 donor id: XAR32. origin: United States. cultivar: 5432. pedigree: Eleven-clone synthetic. other id: CV-148. group: CSR-ALFALFA. other id: YAR32, 80W-1, UW-1. remarks: Flowers mostly purple, some blue, cream and white. Used for hay, haylage, dehydration and greenchop production throughout northern, central and southeastern regions of the U.S. disease resistance: High to bacterial & fusarium wilts. Verticillium wilt & moderate to Phytophthora root rot. insect resistance: High to spotted alfalfa aphid & resistance to pea aphid. Cultivar. Seed.

PI 509534 to 509535-continued

PI 509535 **donor id:** XAR21. **origin:** United States. **cultivar:** 5444. **pedigree:** Twelve-clone synthetic. **other id:** CV-149. **group:** CSR-ALFALFA. **other id:** YAR21, 80V-1, UV-1. **remarks:** Flowers mostly purple, some blue, variegated (other than blue), cream, and yellow. Used for hay, haylage, dehydration and greenchop production throughout northern and central regions of the U.S. **disease resistance:** High to *Verticillium* & *Fusarium* wilts. Moderate to bacterial wilt & low to *Phytophthora* root rot. **insect resistance:** High to spotted alfalfa aphid. Moderate to potato leafhopper. Cultivar. Seed.

PI 509536 to 509541. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Coffelt, T.A., USDA-ARS, Tidewater Agricultural Experiment Sta., Suffolk, Virginia, United States. Received June 18, 1987.

PI 509536 **donor id:** VGP 2. **origin:** United States. **pedigree:** Chico/Florigiant. **other id:** GP-42. **group:** CSR-PEANUTS. **other id:** VA 732813. **remarks:** Large seeded Virginia type with spreading bunch growth habit. Testa pink. Pods two seeded. Unacceptable commercially because of late maturity and poor blanchability. **disease resistance:** Moderate to *Sclerotinia* blight, and early and late leafspot. Breeding Material. Seed.

PI 509537 **donor id:** VGP 3. **origin:** United States. **pedigree:** Chico/Florigiant. **other id:** GP-43. **group:** CSR-PEANUTS. **other id:** VA 732815. **remarks:** Large seeded Virginia type with spreading bunch growth habit. Testa pink. Pods two seeded. Unacceptable commercially because of late maturity and poor blanchability. **disease resistance:** Moderate to *Sclerotinia* blight, and early and late leafspot. Breeding Material. Seed.

PI 509538 **donor id:** VGP 4. **origin:** United States. **pedigree:** Chico/Florigiant. **other id:** GP-44. **group:** CSR-PEANUTS. **other id:** VA 732816. **remarks:** Large seeded Virginia type with spreading bunch growth habit. Testa pink. Pods two seeded. Unacceptable commercially because of late maturity and poor blanchability. **disease resistance:** Moderate to *Sclerotinia* blight, and early and late leafspot. Breeding Material. Seed.

PI 509536 to 509541-continued

PI 509539 **donor id:** VGP 5. **origin:** United States. **pedigree:** Chico/Florigiant. **other id:** GP-45. **group:** CSR-PEANUTS. **other id:** VA 732817. **remarks:** Large seeded Virginia type with spreading bunch growth habit. Testa pink. Pods two seeded. Unacceptable commercially because of late maturity and poor blanchability. **disease resistance:** Moderate to Sclerotinia blight, and early and late leafspot. **Breeding Material.** Seed.

PI 509540 **donor id:** VGP 6. **origin:** United States. **pedigree:** Chico/Florigiant. **other id:** GP-46. **group:** CSR-PEANUTS. **other id:** VA 732818. **remarks:** Large seeded Virginia type with spreading bunch growth habit. Testa pink. Pods two seeded. Unacceptable commercially because of late maturity and poor blanchability. **disease resistance:** Moderate to Sclerotinia blight, and early and late leafspot. **Breeding Material.** Seed.

PI 509541 **donor id:** VGP 7. **origin:** United States. **pedigree:** GP-NC343/PI 319178. **other id:** GP-47. **group:** CSR-PEANUTS. **other id:** VA 751014. **remarks:** Large seeded Virginia type with spreading habit. Testa tan. Pods two seeded. Unacceptable commercially due to late maturity and poor blanchability. **disease resistance:** Moderate to Sclerotinia blight. **insect resistance:** Moderate to southern corn root-worm. **Breeding Material.** Seed.

PI 509542. *Zea mays* L. POACEAE Corn

Donated by: Russell, W.A., Department of Agronomy, Iowa State University, Ames, Iowa, United States. Received June 18, 1987.

donor id: B 89. **origin:** United States. **other id:** PL-96. **group:** CSR-MAIZE. **remarks:** Plants produce one ear per stalk. Maturity classification AES800. Kernels with greater depth than width, angular, smooth dent, intermediate yellow and good quality. Ear short and thick, 20-rowed. Cob red. Pollen & seed production good. Susceptible to second-generation European corn borer. **insect resistance:** Some to first-generation European corn borer. **Breeding Material.** Seed.

PI 509543 to 509544. *Zea mays* L. POACEAE Popcorn

Donated by: Ziegler, K.E., Department of Agronomy, Iowa State University, Ames, Iowa, United States. Received June 18, 1987.

PI 509543 to 509544-continued

PI 509543 **donor id:** BSP1C1. **origin:** United States. **other id:** GP-159. **group:** CSR-MAIZE. **remarks:** Breeding population from same base population as PI GP-160. Kernels yellow, some variability in size and shape. Carries gene for dent sterility but not 100% sterile. Popping expansion good. Standability improved. **insect resistance:** First and second generation of European corn borer. Breeding Material. Seed.

PI 509544 **donor id:** BSPW1C1. **origin:** United States. **other id:** GP-160. **group:** CSR-MAIZE. **remarks:** Breeding population from same base population as PI GP-159. Kernels white, some variability in size and shape. Carries gene for dent sterility but not 100% sterile. Popping expansion good. Standability improved. **insect resistance:** First and second generation of European corn borer. Breeding Material. Seed.

PI 509545. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Bridge, R.R., Delta Branch, Mississippi Agric. & Forestry Exp. Sta., P.O. Box 197, Stoneville, Mississippi, United States. Received June 18, 1987.

donor id: DES 237-7. **origin:** United States. **pedigree:** DES 2134-018/Deltapine 5916-65. **other id:** GP-308. **group:** CSR-COTTON. **remarks:** Adaptability wide. Lint yield high. Fiber shorter and weaker than most cultivars tested. Good potential for development of cultivars. **disease resistance:** Some to fusarium wilt. Breeding Material. Seed.

PI 509546. *Trifolium pratense* L. FABACEAE Red clover

Donated by: Leath, K.T., U.S. Regional Pasture Research Lab., USDA-ARS, Pennsylvania State University, University Park, PA, United States. **remarks:** Cooperative development by USDA-ARS, the Pennsylvania State University and the University of Wisconsin. Received June 18, 1987.

donor id: CCNR-1. **origin:** United States. **other id:** GP-16. **group:** CSR-CLOVER, RED. **nematode resistance:** Provides resistance and/or tolerance to clover cyst. Breeding Material. Seed.

PI 509547 to 509548. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Devine, T.E., Nitrogen Fixation & Soybean Genet. Lab., Plant Physiology Institute, USDA-ARS, Beltsville, Maryland, United States. Received June 18, 1987.

PI 509547 **donor id:** BARC-4(Rj2). **origin:** United States. **pedigree:** Clark 63*8/Hardee. **other id:** GP-98. **group:** CSR-SOYBEAN. **remarks:** Isogenic line homogenous for the ineffective nodulation response with rhizobial strain USDA 7. Breeding Material. Seed.

PI 509548 **donor id:** BARC-5(rj2). **origin:** United States. **pedigree:** Clark 63*8/Hardee. **other id:** GP-99. **group:** CSR-SOYBEAN. **remarks:** Isogenic line homogenous for normal nodulation response with rhizobial strain USDA 7. Breeding Material. Seed.

PI 509549. *Cucumis sativus* var. *xishuangbannanensis* ined. CUCURBITACEAE

Donated by: Qi, C., Vegetable Research Institute, Chinese Academy of Agricultural Sciences, 30 Bai Shiqiao, Beijing, People's Republic of China. Received June 26, 1987.

origin: China, Peoples Repub of. **locality:** Xishuangbannan Autonomous Region, Yunnan Province. **remarks:** Fruit rectangular with large protruding navel. Flesh and placenta orange. Numerous seeds. Fruit 2-3kg. Chromosome number 2N = 14. Seed.

PI 509550 to 510520. *Oryza sativa* L. POACEAE Rice

Donated by: Rice Research and Extension Center, University of Arkansas, Stuttgart, Arkansas, United States. **remarks:** Rice Germplasm Rejuvenation Project (1983-1987, T.H. Johnston, Technical Supervisor). Received June 4, 1987.

PI 509550 **donor id:** Gp-20013. **origin:** UNKNOWN. **cultivar:** UNKN MGVR (Not IR8). **other id:** 83 EC 104. Cultivated. Seed.

PI 509551 **donor id:** Gp-20309. **origin:** UNKNOWN. **cultivar:** UNKN. **remarks:** Single plant. Cultivated. Seed.

PI 509552 **donor id:** Gp-20354. **origin:** UNKNOWN. **cultivar:** Sadri Type (PI431303?). **other id:** 79 EC 1422. **remarks:** Not IR5. Cultivated. Seed.

PI 509553 **donor id:** Gp-20356. **origin:** UNKNOWN. **cultivar:** UNKN MGVR (PI331505?, Not IR8). **remarks:** Not PI 331505? From Gp-10439. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509554 donor id: Gp-20359. origin: UNKNOWN. cultivar: UNKN SGVR (Not IR8). remarks: From Gp-19341. Cultivated. Seed.
- PI 509555 donor id: Gp-20361. origin: UNKNOWN. cultivar: UNKN LGVR (Not IR8). remarks: Not PI392133?. From Gp-18309. Cultivated. Seed.
- PI 509556 donor id: Gp-20362. origin: UNKNOWN. cultivar: UNKN SGVR (Not IR8). other id: NSL 9/79. remarks: Not PI400287?. Cultivated. Seed.
- PI 509557 donor id: Gp-20363. origin: UNKNOWN. cultivar: UNKN MGVR (Not IR20). other id: NSL 10/79. remarks: Not PI400111?. Cultivated. Seed.
- PI 509558 donor id: Gp-20364. origin: UNKNOWN. cultivar: UNKN MGVR (Not IR22). remarks: Not PI312602?. From Gp-12773. Cultivated. Seed.
- PI 509559 donor id: Gp-20365. origin: UNKNOWN. cultivar: UNKN MGVR (Not IR28). remarks: Not PI431415?. Cultivated. Seed.
- PI 509560 donor id: Gp-20367. origin: UNKNOWN. cultivar: UNKN MGVR (Not PI400587). other id: NSL 10/78. Cultivated. Seed.
- PI 509561 donor id: Gp-20368. origin: UNKNOWN. cultivar: UNKN MGVR (PI400587?). other id: NSL 10/79. Cultivated. Seed.
- PI 509562 donor id: Gp-20405. origin: UNKNOWN. cultivar: UNKN MGVR (PI360804?). other id: NSL 3/73 Stp 10/43. Cultivated. Seed.
- PI 509563 donor id: Gp-20433. origin: UNKNOWN. cultivar: UNKN MGVR (Not PI373531?). other id: NSL 9/79. remarks: Single plant. Cultivated. Seed.
- PI 509564 donor id: Gp-20606. origin: UNKNOWN. cultivar: UNKN MGVR (PI450450?). remarks: 81 EC 919?. Cultivated. Seed.
- PI 509565 donor id: Gp-20655. origin: UNKNOWN. cultivar: UNKN MGVR (PI439075?). other id: 83 BMT 2269. Cultivated. Seed.
- PI 509566 donor id: Gp-20657. origin: UNKNOWN. cultivar: UNKN LGVR (PI388616?). remarks: From Gp-16676. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509567 donor id: Gp-20658. origin: UNKNOWN. cultivar: UNKN MGVR (PI388256?). remarks: From Gp-19270. Not Caloro. Cultivated. Seed.
- PI 509568 donor id: Gp-20683. origin: UNKNOWN. cultivar: UNKN MGVR (PI160476?). other id: NSL 9/79. remarks: Not RAM STR 3. Cultivated. Seed.
- PI 509569 donor id: Gp-20685. origin: UNKNOWN. cultivar: UNKN LGVR (PI388324?). remarks: From Gp-16239. Not RAM STR3. Cultivated. Seed.
- PI 509570 donor id: Gp-20686. origin: UNKNOWN. cultivar: UNKN LGVR (PI388562?). remarks: From Gp-19377. Not RAM STR3. Cultivated. Seed.
- PI 509571 donor id: Gp-20699. origin: UNKNOWN. cultivar: UNKN MGVR (CI2162?). other id: 69 BMT. remarks: Single plant. Cultivated. Seed.
- PI 509572 donor id: Gp-20747. origin: UNKNOWN. cultivar: UNKN LGVR (CI7132?). remarks: BLTS. Cultivated. Seed.
- PI 509573 donor id: Gp-20750. origin: UNKNOWN. cultivar: UNKN LGVR (CI7225?). remarks: BLTS. Cultivated. Seed.
- PI 509574 donor id: Gp-20758. origin: UNKNOWN. cultivar: UNKN MGVR (CI7395?). other id: 85 F BLTS. Cultivated. Seed.
- PI 509575 donor id: Gp-20763. origin: UNKNOWN. cultivar: UNKN LGVR (CI8040?). remarks: BLTS. Cultivated. Seed.
- PI 509576 donor id: Gp-20764. origin: UNKNOWN. cultivar: UNKN LGVR (CI8041?). remarks: BLTS. Cultivated. Seed.
- PI 509577 donor id: Gp-20768. origin: UNKNOWN. cultivar: UNKN MGVR (CI8089?). remarks: From Gp-2413. Cultivated. Seed.
- PI 509578 donor id: Gp-20770. origin: UNKNOWN. cultivar: UNKN MGVR (CI8102?). remarks: BLTS. Cultivated. Seed.
- PI 509579 donor id: Gp-20771. origin: UNKNOWN. cultivar: UNKN MGVR (CI8103?). remarks: BLTS. Cultivated. Seed.
- PI 509580 donor id: Gp-20782. origin: UNKNOWN. cultivar: UNKN LGVR (Not CI8302).. remarks: BLTS?. Cultivated. Seed.
- PI 509581 donor id: Gp-20809. origin: UNKNOWN. cultivar: UNKN MGVR (wx). remarks: BLTS. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509582 donor id: Gp-20810. origin: UNKNOWN. cultivar: UNKN
MGVR (CI2981?). remarks: BLTS. Cultivated. Seed.
- PI 509583 donor id: Gp-20811. origin: UNKNOWN. cultivar: UNKN
MGVR (CI3830?). remarks: BLTS. Cultivated. Seed.
- PI 509584 donor id: Gp-20812. origin: UNKNOWN. cultivar: UNKN
LGVR (CI4211?). remarks: BLTS. Cultivated. Seed.
- PI 509585 donor id: Gp-20813. origin: UNKNOWN. cultivar: UNKN
LGVR (CI4437?). other id: NSL 10/78. Cultivated. Seed.
- PI 509586 donor id: Gp-20814. origin: UNKNOWN. cultivar: UNKN
MGVR. other id: NSL 10/78 STP 4755. Cultivated. Seed.
- PI 509587 donor id: Gp-20815. origin: UNKNOWN. cultivar: UNKN
MGVR (PI282947?). other id: NSL 10/78 Stp 4754.
Cultivated. Seed.
- PI 509588 donor id: Gp-20816. origin: UNKNOWN. cultivar: UNKN
MGVR. other id: NSL 10/78 Stp 4788. Cultivated. Seed.
- PI 509589 donor id: Gp-20817. origin: UNKNOWN. cultivar: UNKN
LGVR. other id: NSL 10/78 Stp 4848. Cultivated. Seed.
- PI 509590 donor id: Gp-20818. origin: UNKNOWN. cultivar: UNKN
LGVR. other id: NSL 10/78 Stp 5335. Cultivated. Seed.
- PI 509591 donor id: Gp-20821. origin: UNKNOWN. cultivar: UNKN
MGVR. remarks: NSL 10/79 6469?. Cultivated. Seed.
- PI 509592 donor id: Gp-20824. origin: UNKNOWN. cultivar: UNKN
LGVR. remarks: BLTS 7203?. Cultivated. Seed.
- PI 509593 donor id: Gp-20825. origin: UNKNOWN. cultivar: UNKN
LGVR. remarks: BLTS 8032?. Cultivated. Seed.
- PI 509594 donor id: Gp-20827. origin: UNKNOWN. cultivar: UNKN
MGVR. remarks: NSL 10/79 8091?. Cultivated. Seed.
- PI 509595 donor id: Gp-20831. origin: UNKNOWN. cultivar: UNKN
LGVR. remarks: BLTS 8300?. Cultivated. Seed.
- PI 509596 donor id: Gp-20833. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI8302). other id: 83 CRO. Cultivated. Seed.
- PI 509597 donor id: Gp-20834. origin: UNKNOWN. cultivar: UNKN
MGVR. remarks: NSL 3/77 8344?. Cultivated. Seed.
- PI 509598 donor id: Gp-20838. origin: UNKNOWN. cultivar: UNKN
SGVR (wx). remarks: BLTS 4011?. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509599 donor id: Gp-20865. origin: UNKNOWN. cultivar: UNKN
MGVR (PI268621?). other id: 75PR. remarks: Not
PI400330. Cultivated. Seed.
- PI 509600 donor id: Gp-20866. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400330). other id: 77 EC 5689. Cultivated.
Seed.
- PI 509601 donor id: Gp-20867. origin: UNKNOWN. cultivar: UNKN
MGVR (PI278622?). other id: 75 PR. remarks: Not
PI400331. Cultivated. Seed.
- PI 509602 donor id: Gp-20868. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400331?). other id: 77 EC 5690. Cultivated.
Seed.
- PI 509603 donor id: Gp-20871. origin: UNKNOWN. cultivar: UNKN
MGVR (PI318630?). other id: 75 PR. .remarks: Not
PI400335. Cultivated. Seed.
- PI 509604 donor id: Gp-20873. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400335). other id: 77 EC 5693. Cultivated.
Seed.
- PI 509605 donor id: Gp-20874. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400337). other id: 72 CRO 8632. Cultivated.
Seed.
- PI 509606 donor id: Gp-20875. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400338). other id: 74 SWC 308 wx.
Cultivated. Seed.
- PI 509607 donor id: Gp-20876. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400339). other id: 74 SWC 90. remarks: Not
FRTA. Cultivated. Seed.
- PI 509608 donor id: Gp-20889. origin: UNKNOWN. cultivar: UNKN
LGVR (CI8651?). other id: 72 CRO 8651. remarks: Not
PI400327. Cultivated. Seed.
- PI 509609 donor id: Gp-20890. origin: UNKNOWN. cultivar: UNKN
MGVR (CI8651?). other id: 77 EC 5701. remarks: Not
PI400327. Cultivated. Seed.
- PI 509610 donor id: Gp-20901. origin: UNKNOWN. cultivar:
WATARIBUNE - CI1561?. remarks: From Gp-763. Cultivated.
Seed.
- PI 509611 donor id: Gp-20931. origin: UNKNOWN. cultivar: UNKN
MGVR (CI8690?). remarks: From Gp-2978. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509612 donor id: Gp-20933. origin: UNKNOWN. cultivar: UNKN MGVR (CI8797?). other id: 72 CRO. remarks: Not PI400451. Cultivated. Seed.
- PI 509613 donor id: Gp-20947. origin: UNKNOWN. cultivar: UNKN MGVR (CI8900?). remarks: BLTS. Cultivated. Seed.
- PI 509614 donor id: Gp-20973. origin: UNKNOWN. cultivar: UNKN MGVR (CI8938?). remarks: BLTS. Not PI400424. Cultivated. Seed.
- PI 509615 donor id: Gp-20977. origin: UNKNOWN. cultivar: UNKN MGVR (CI8942?). other id: 77 EC 4505. remarks: Not PI400427. Cultivated. Seed.
- PI 509616 donor id: Gp-20978. origin: UNKNOWN. cultivar: UNKN MGVR (CI8946?). remarks: Not PI400428. Cultivated. Seed.
- PI 509617 donor id: Gp-20983. origin: UNKNOWN. cultivar: UNKN MGVR (CI8948?). remarks: Not PI400430. Cultivated. Seed.
- PI 509618 donor id: Gp-20987. origin: UNKNOWN. cultivar: UNKN MGVR (CI8953?). remarks: BLTS. Not PI400432. Cultivated. Seed.
- PI 509619 donor id: Gp-20992. origin: UNKNOWN. cultivar: UNKN MGVR (CI8961? or PI400436?). other id: 64 BMT 8961. Cultivated. Seed.
- PI 509620 donor id: Gp-21004. origin: UNKNOWN. cultivar: UNKN MGVR (CI8986?). other id: 70 BMT 8986. remarks: Not PI400443. Cultivated. Seed.
- PI 509621 donor id: Gp-21005. origin: UNKNOWN. cultivar: UNKN MGVR (CI8986?). other id: 77 EC 5770. remarks: Not PI400443. Cultivated. Seed.
- PI 509622 donor id: Gp-21006. origin: UNKNOWN. cultivar: UNKN MGVR (CI8987?). other id: 70 BMT 8487. remarks: Not PI400444. Cultivated. Seed.
- PI 509623 donor id: Gp-21007. origin: UNKNOWN. cultivar: UNKN MGVR (CI8987?). other id: 71 EC 5771. remarks: Not PI400444. Cultivated. Seed.
- PI 509624 donor id: Gp-21039. origin: UNKNOWN. cultivar: UNKN LGVR (CI9030?). other id: 73 DAV 9030. remarks: Not PI400472. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509625 donor id: Gp-21052. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9041?). other id: 70 CRO 9041. remarks: Not
PI400479. Cultivated. Seed.
- PI 509626 donor id: Gp-21054. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9042). remarks: Not PI400480. Cultivated.
Seed.
- PI 509627 donor id: Gp-21057. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9045). other id: 70 BMT 9045. remarks: Not
PI400482. Cultivated. Seed.
- PI 509628 donor id: Gp-21064. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9054). other id: 70 BMT 9045. remarks: From
Gp-779. Cultivated. Seed.
- PI 509629 donor id: Gp-21065. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9056?). other id: 77 EC 5793. remarks: Not
PI400488. Cultivated. Seed.
- PI 509630 donor id: Gp-21075. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9069). remarks: 72 STG? Not PI400494.
Cultivated. Seed.
- PI 509631 donor id: Gp-21077. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9073?). other id: NSL 10/79. Cultivated. Seed.
- PI 509632 donor id: Gp-21091. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9095?). other id: 68 CRO 9095. remarks: Not
PI400500. Cultivated. Seed.
- PI 509633 donor id: Gp-21096. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9098?). other id: 73 DAV 9098. remarks: Not
PI400503. Cultivated. Seed.
- PI 509634 donor id: Gp-21102. origin: UNKNOWN. cultivar: UNKN
MGVR (CI4872?). other id: 77 EC 4974. remarks: Not
CI9514?. Cultivated. Seed.
- PI 509635 donor id: Gp-21113. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400513). other id: 70 BMT 9115. Cultivated.
Seed.
- PI 509636 donor id: Gp-21170. origin: UNKNOWN. cultivar: UNKN
LGVR (CI9258?). remarks: BLTS. Cultivated. Seed.
- PI 509637 donor id: Gp-21181. origin: UNKNOWN. cultivar: UNKN
LGVR (CI9269?). remarks: From Gp-3889. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509638 donor id: Gp-21192. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9285?). remarks: Single plant. Cultivated.
Seed.
- PI 509639 donor id: Gp-21213. origin: UNKNOWN. cultivar: UNKN
LGVR (CI9427?). other id: NSL 10/79. Cultivated. Seed.
- PI 509640 donor id: Gp-21261. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9554). other id: 70 BMT. remarks: Not
PI400701. Cultivated. Seed.
- PI 509641 donor id: Gp-21264. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9557). other id: 69 STG. remarks: Not
PI400704. Cultivated. Seed.
- PI 509642 donor id: Gp-21265. origin: UNKNOWN. cultivar: UNKN
MGVR (CI4889?). other id: 77 EC 4981. remarks: Not
CI9557. Cultivated. Seed.
- PI 509643 donor id: Gp-21333. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9664?). remarks: BLTS. Cultivated. Seed.
- PI 509644 donor id: Gp-21359. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9690?). other id: 68 STG. remarks: Single
plant. Cultivated. Seed.
- PI 509645 donor id: Gp-21366. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9697). other id: 68 STG. remarks: Not
PI400755. Cultivated. Seed.
- PI 509646 donor id: Gp-21370. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9700). other id: 84 EC 47. Cultivated.
Seed.
- PI 509647 donor id: Gp-21378. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9711?). other id: 70 STG. remarks: Single
plant. Cultivated. Seed.
- PI 509648 donor id: Gp-21381. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9713?). other id: 68 STG 9713. remarks: Not
PI400767. Cultivated. Seed.
- PI 509649 donor id: Gp-21382. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9713?). other id: 77 EC 4857. remarks:
PI400767?. Cultivated. Seed.
- PI 509650 donor id: Gp-21383. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9715?). other id: 69 STG 9715. remarks: Not
PI400768. Cultivated. Seed.
- PI 509651 donor id: Gp-21385. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9721?). other id: 70 M-106. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509652 donor id: Gp-21391. origin: UNKNOWN. cultivar: UNKN LGVR (Not CI9722). other id: 83 DAV 11108. remarks: Not SSST. Cultivated. Seed.
- PI 509653 donor id: Gp-21396. origin: UNKNOWN. cultivar: UNKN MGVR (CI9730?). other id: 66 BMT 9730. remarks: Not PI400774. Single plant. Cultivated. Seed.
- PI 509654 donor id: 21397. origin: UNKNOWN. cultivar: UNKN MGVR (CI9730?). remarks: BLTS. Single plant. Cultivated. Seed.
- PI 509655 donor id: Gp-21410. origin: UNKNOWN. cultivar: UNKN MGVR (CI9744?). remarks: 68 BMT?. Single plant. Cultivated. Seed.
- PI 509656 donor id: Gp-21422. origin: UNKNOWN. cultivar: UNKN LGVR (CI9759?). other id: 70 CRO 9759. remarks: Not PI400792. Cultivated. Seed.
- PI 509657 donor id: Gp-21434. origin: UNKNOWN. cultivar: UNKN MGVR (CI9798?). remarks: BLTS. Single plant. Cultivated. Seed.
- PI 509658 donor id: Gp-21444. origin: UNKNOWN. cultivar: UNKN LGVR (Not CI9807). remarks: From Gp-4673. Cultivated. Seed.
- PI 509659 donor id: Gp-21491. origin: UNKNOWN. cultivar: UNKN MGVR (Not CI9842?). remarks: BLTS. Cultivated. Seed.
- PI 509660 donor id: Gp-21497. origin: UNKNOWN. cultivar: UNKN MGVR (Not CI9847). remarks: BLTS. Cultivated. Seed.
- PI 509661 donor id: Gp-21607. origin: UNKNOWN. cultivar: UNKN LGVR (CI12261?). remarks: BLTS. Single plant. Cultivated. Seed.
- PI 509662 donor id: Gp-21614. origin: UNKNOWN. cultivar: UNKN SGVR (CI12273?). other id: 75 BMT 2197. remarks: Single plant. Cultivated. Seed.
- PI 509663 donor id: Gp-21629. origin: UNKNOWN. cultivar: UNKN SGVR (CI12293?). remarks: BLTS. Single plant. Cultivated. Seed.
- PI 509664 donor id: Gp-21724. origin: UNKNOWN. cultivar: UNKN LGVR (CI12458?). other id: 75 BMT 2268. remarks: Single plant. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509665 donor id: Gp-21757. origin: UNKNOWN. cultivar: UNKN
MGVR (CI12497?). remarks: BLTS. Single plant.
Cultivated. Seed.
- PI 509666 donor id: Gp-21781. origin: UNKNOWN. cultivar: UNKN
MGVR (PI157352?). remarks: From Gp-3106. Cultivated.
Seed.
- PI 509667 donor id: Gp-21785. origin: UNKNOWN. cultivar: UNKN
MGVR (PI160783?). remarks: From Gp-5927. Cultivated.
Seed.
- PI 509668 donor id: Gp-21831. origin: UNKNOWN. cultivar: UNMD
SELN (224822-1). Cultivated. Seed.
- PI 509669 donor id: Gp-21859. origin: UNKNOWN. cultivar: UNKN
SGVR (231627?). remarks: From Gp-8773. Cultivated.
Seed.
- PI 509670 donor id: Gp-21890. origin: UNKNOWN. cultivar: UNKN
LGVR (PI247952?). remarks: From Gp-11867. Cultivated.
Seed.
- PI 509671 donor id: Gp-21891. origin: UNKNOWN. cultivar: UNKN
MGVR (PI247952?). remarks: From Gp-11868. Cultivated.
Seed.
- PI 509672 donor id: Gp-21910. origin: UNKNOWN. cultivar: UNKN
MGVR (PI276902?). remarks: From Gp-F67. Cultivated.
Seed.
- PI 509673 donor id: Gp-21999. origin: UNKNOWN. cultivar: UNKN
LGVR (PI399661?). remarks: From Gp-799. Not IR5.
Cultivated. Seed.
- PI 509674 donor id: Gp-22031. origin: UNKNOWN. cultivar: UNKN
LGVR (PI400082?). other id: NSL 9/79, EY CROP.
Cultivated. Seed.
- PI 509675 donor id: Gp-22032. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400082?). other id: NSL 10/78. Cultivated.
Seed.
- PI 509676 donor id: Gp-22322. origin: UNKNOWN. cultivar: UNKN
MGVR (PI459037?). other id: 81 EC 1104. Cultivated.
Seed.
- PI 509677 donor id: Gp-22324. origin: UNKNOWN. cultivar: UNKN
LGVR (PI459038?). other id: 80 EC 1123. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509678 donor id: Gp-22421. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI160921).. other id: NSL 3/77. Cultivated.
Seed.
- PI 509679 donor id: Gp-22423. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI160922). other id: NSL 3/77. Cultivated.
Seed.
- PI 509680 donor id: Gp-22496. origin: UNKNOWN. cultivar: UNKN
MGVR (PI161041?). other id: NSL 17583.01 STP 621.
Cultivated. Seed.
- PI 509681 donor id: Gp-22498. origin: UNKNOWN. cultivar: UNKN
MGVR (PI161042?). other id: NSL 17584.01 STP 622.
Cultivated. Seed.
- PI 509682 donor id: Gp-22507. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI161049).. remarks: DAV?. Cultivated. Seed.
- PI 509683 donor id: Gp-22511. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI162198). other id: 83 CRO 443. Cultivated.
Seed.
- PI 509684 donor id: Gp-22529. origin: UNKNOWN. cultivar: UNKN
MGVR (Not BROS type). other id: NSL 3/77. remarks: Not
PI167008?. Cultivated. Seed.
- PI 509685 donor id: Gp-22533. origin: UNKNOWN. cultivar: UNKN
MGVR (PI167920?). other id: 83 BMT 2146. Cultivated.
Seed.
- PI 509686 donor id: Gp-22561. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI220420?). other id: NSL 3/77. Cultivated.
Seed.
- PI 509687 donor id: Gp-22576. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI231652?). other id: 83 DAV. Cultivated.
Seed.
- PI 509688 donor id: Gp-22668. origin: UNKNOWN. cultivar: UNKN
LGVR (365708 non-valid). other id: NSL 9/77.
Cultivated. Seed.
- PI 509689 donor id: Gp-22674. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI360809?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509690 donor id: Gp-22691. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI365271?). other id: NSL 9/79. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509691 donor id: Gp-22782. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI392141?). other id: 81 BMT 2192.
Cultivated. Seed.
- PI 509692 donor id: Gp-22829. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI392209?). other id: NSL 10/78. Cultivated.
Seed.
- PI 509693 donor id: Gp-22872. origin: UNKNOWN. cultivar: UNKN
MGVR (CI8575 or PI400324?). remarks: Plot 2447-?.
Cultivated. Seed.
- PI 509694 donor id: Gp-22875. origin: UNKNOWN. cultivar: UNKN
MGVR (CI8626?-PI400333?). other id: 77 EC 4410.
Cultivated. Seed.
- PI 509695 donor id: Gp-23068. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI401423?). other id: 83 BMT 2041.
Cultivated. Seed.
- PI 509696 donor id: Gp-23069. origin: UNKNOWN. cultivar: UNKN
LGVR (PI459883? or 459890?). other id: 82 EC 577.
Cultivated. Seed.
- PI 509697 donor id: Gp-23070. origin: UNKNOWN. cultivar: UNKN
LGVR (PI461408? or 461409?). other id: 82 EC 583.
Cultivated. Seed.
- PI 509698 donor id: Gp-23071. origin: UNKNOWN. cultivar: UNKN
MGVR (PI464609? or 464110?). other id: 82 EC 619.
Cultivated. Seed.
- PI 509699 donor id: Gp-23083. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI392989?).. other id: NSL 10/79. Cultivated.
Seed.
- PI 509700 donor id: Gp-23098. origin: UNKNOWN. cultivar: UNKN
MGVR (PI393034?). remarks: Single plant. Cultivated.
Seed.
- PI 509701 donor id: Gp-23139. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400020?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509702 donor id: Gp-23146. origin: UNKNOWN. cultivar: UNKN
LGVR (PI400045?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509703 donor id: Gp-23154. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400080?). other id: NSL 10/79. remarks: Red
mix. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509704 donor id: Gp-23170. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400099?). other id: NSL 10/78. remarks: Prob.
not CICA4. Cultivated. Seed.
- PI 509705 donor id: Gp-23194. origin: UNKNOWN. cultivar: UNKN
LGVR (PI400140?). other id: NSL 10/78. Cultivated.
Seed.
- PI 509706 donor id: Gp-23195. origin: UNKNOWN. cultivar: UNKN
LGVR (PI400140?). other id: NSL 9/79. Cultivated.
Seed.
- PI 509707 donor id: Gp-23216. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400342?). other id: NSL 10/78. Cultivated.
Seed.
- PI 509708 donor id: Gp-23234. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400417?). other id: NSL 10/78. Cultivated.
Seed.
- PI 509709 donor id: Gp-23235. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400417?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509710 donor id: Gp-23246. origin: UNKNOWN. cultivar: UNKN
SGVR (PI400437?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509711 donor id: Gp-23285. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400552?). other id: NSL 10/78. Cultivated.
Seed.
- PI 509712 donor id: Gp-23286. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400552?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509713 donor id: Gp-23305. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400592?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509714 donor id: Gp-23319. origin: UNKNOWN. cultivar: UNKN
LGVR (PI400605?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509715 donor id: Gp-23334. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400621?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509716 donor id: Gp-23336. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400629?). other id: NSL 10/79. remarks: Single
plant. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509717 donor id: Gp-23356. origin: UNKNOWN. cultivar: UNKN
LGVR (PI400669?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509718 donor id: Gp-23371. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400681?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509719 donor id: Gp-23379. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400695?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509720 donor id: Gp-23385. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400703?). other id: NSL 10/79. remarks: Single
plant. Cultivated. Seed.
- PI 509721 donor id: Gp-23398. origin: UNKNOWN. cultivar: UNKN
LGVR (PI400754?). other id: NSL 10/78. Cultivated.
Seed.
- PI 509722 donor id: Gp-23432. origin: UNKNOWN. cultivar: UNKN
LGVR (PI401752?). other id: NSL 9/79. Cultivated.
Seed.
- PI 509723 donor id: Gp-23435. origin: UNKNOWN. cultivar: UNKN
LGVR (PI402503?). other id: NSL 9/79. Cultivated.
Seed.
- PI 509724 donor id: Gp-23453. origin: UNKNOWN. cultivar: UNKN
MGVR (PI404087?). other id: NSL 9/79. remarks: Single
plant. Cultivated. Seed.
- PI 509725 donor id: Gp-23456. origin: UNKNOWN. cultivar: UNKN
MGVR (PI404092?). other id: NSL 9/79. remarks: Single
plant. Cultivated. Seed.
- PI 509726 donor id: Gp-23509. origin: UNKNOWN. cultivar: UNKN
LGVR (PI408378?). remarks: 83/71-?. Cultivated. Seed.
- PI 509727 donor id: Gp-23599. origin: UNKNOWN. cultivar: UNKN
MGVR (PI408653?). other id: NSL 6/77. Cultivated.
Seed.
- PI 509728 donor id: Gp-23729. origin: UNKNOWN. cultivar: UNKN
SGVR (PI415760?). other id: NSL 9/79. remarks: Single
plant. Cultivated. Seed.
- PI 509729 donor id: Gp-23832. origin: UNKNOWN. cultivar: UNKN
MGVR (PI429761?). remarks: Single plant. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509730 donor id: Gp-23970. origin: UNKNOWN. cultivar: UNKN
MGVR (PI431030?). other id: 83 BMT 2204. Cultivated.
Seed.
- PI 509731 donor id: Gp-24033. origin: UNKNOWN. cultivar: UNKN
MGVR (PI431152?). Cultivated. Seed.
- PI 509732 donor id: Gp-24041. origin: UNKNOWN. cultivar: UNKN
MGVR (PI431165?). Cultivated. Seed.
- PI 509733 donor id: Gp-24243. origin: UNKNOWN. cultivar: UNKN
MGVR (PI439131?). other id: 83 BMT 2080. Cultivated.
Seed.
- PI 509734 donor id: Gp-24264. origin: UNKNOWN. cultivar: UNKN
LGVR (PI439198?). other id: 82? BMT 9342. Cultivated.
Seed.
- PI 509735 donor id: Gp-24272. origin: UNKNOWN. cultivar: UNKN
LGVR (PI439718?). other id: 82 BMT 9405. Cultivated.
Seed.
- PI 509736 donor id: Gp-24346. origin: UNKNOWN. cultivar: UNKN
SGVR (PI400040?). other id: NSL 10/79. Cultivated.
Seed.
- PI 509737 donor id: Gp-24348. origin: UNKNOWN. cultivar: UNKN
SGVR (PI400041?). other id: 82 BMT 9297. Cultivated.
Seed.
- PI 509738 donor id: Gp-24355. origin: UNKNOWN. cultivar: UNKN
LGVR (PI400051?). other id: NSL 10/78. remarks: US
type?. Cultivated. Seed.
- PI 509739 donor id: Gp-24445. origin: UNKNOWN. cultivar: UNKN
MGVR (PI402749?). other id: 72 CRO. Cultivated. Seed.
- PI 509740 donor id: Gp-24447. origin: UNKNOWN. cultivar: UNKN
LGVR. Cultivated. Seed.
- PI 509741 donor id: Gp-24448. origin: UNKNOWN. cultivar: UNKN
MGVR. other id: 72 CRO. Cultivated. Seed.
- PI 509742 donor id: Gp-24449. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459366). other id: 72 CRO. Cultivated.
Seed.
- PI 509743 donor id: Gp-24450. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459539). other id: 69 BMT. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509744 donor id: Gp-24451. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459502). other id: 69 BMT. Cultivated.
Seed.
- PI 509745 donor id: Gp-24452. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459501). other id: 70 CRO. Cultivated.
Seed.
- PI 509746 donor id: Gp-24453. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459545). remarks: BMT. Cultivated. Seed.
- PI 509747 donor id: Gp-24454. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459546). remarks: BMT. Cultivated. Seed.
- PI 509748 donor id: Gp-24455. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459548). other id: 69 BMT. Cultivated.
Seed.
- PI 509749 donor id: Gp-24456. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459558). other id: 69 BMT. Cultivated.
Seed.
- PI 509750 donor id: Gp-24457. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459581). other id: 69 BMT. Cultivated.
Seed.
- PI 509751 donor id: Gp-24458. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459596). other id: 69 BMT. Cultivated.
Seed.
- PI 509752 donor id: Gp-24459. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI459609). other id: 72 CRO. Cultivated.
Seed.
- PI 509753 donor id: Gp-24462. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI459637). other id: 76 BMT 2003. Cultivated.
Seed.
- PI 509754 donor id: Gp-24464. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459732). other id: 72 CRO. Cultivated.
Seed.
- PI 509755 donor id: Gp-24465. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459761). other id: 74 CRO 9319. Cultivated.
Seed.
- PI 509756 donor id: Gp-24466. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459834). other id: 69 BMT. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509757 donor id: Gp-24467. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459846). other id: 69 BMT. Cultivated.
Seed.
- PI 509758 donor id: Gp-24468. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459851). other id: 69 BMT. Cultivated.
Seed.
- PI 509759 donor id: Gp-24469. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460176). other id: 69 BMT. Cultivated.
Seed.
- PI 509760 donor id: Gp-24470. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460372). other id: 76 BMT 2004. Cultivated.
Seed.
- PI 509761 donor id: Gp-24471. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460432). other id: 69 BMT. Cultivated.
Seed.
- PI 509762 donor id: Gp-24473. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI460616). other id: 70 CRO. Cultivated.
Seed.
- PI 509763 donor id: Gp-24474. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460637). Cultivated. Seed.
- PI 509764 donor id: Gp-24475. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI460637). Cultivated. Seed.
- PI 509765 donor id: Gp-24476. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460642). Cultivated. Seed.
- PI 509766 donor id: Gp-24477. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460642). Cultivated. Seed.
- PI 509767 donor id: Gp-24478. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460650). other id: 69 BMT. Cultivated.
Seed.
- PI 509768 donor id: Gp-24479. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460658). Cultivated. Seed.
- PI 509769 donor id: Gp-24481. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460679). other id: 69 BMT. Cultivated.
Seed.
- PI 509770 donor id: Gp-24483. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI460715). other id: 74 CRO 7407. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509771 donor id: Gp-24484. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI460753). other id: 74 CRO 9358. Cultivated.
Seed.
- PI 509772 donor id: Gp-24485. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460762-CI8446?). other id: 74 CRO 9366.
Cultivated. Seed.
- PI 509773 donor id: Gp-24490. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI460917). other id: 72 BMT 110. Cultivated.
Seed.
- PI 509774 donor id: Gp-24491. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI460919). other id: 77 BMT 184. Cultivated.
Seed.
- PI 509775 donor id: Gp-24492. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI460920). other id: 72 CRO. Cultivated.
Seed.
- PI 509776 donor id: Gp-24493. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI460938). other id: 76 BMT 2008. Cultivated.
Seed.
- PI 509777 donor id: Gp-24494. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460978). other id: 70 CRO. Cultivated.
Seed.
- PI 509778 donor id: Gp-24495. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461019). Cultivated. Seed.
- PI 509779 donor id: Gp-24496. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461021). Cultivated. Seed.
- PI 509780 donor id: Gp-24497. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461026). other id: 72 CRO. Cultivated.
Seed.
- PI 509781 donor id: Gp-24498. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461045). other id: 76 BMT 2014. Cultivated.
Seed.
- PI 509782 donor id: Gp-24499. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461046). other id: 68 CRO. Cultivated.
Seed.
- PI 509783 donor id: Gp-24501. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461047). other id: 76 BMT 2015. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509784 donor id: Gp-24502. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461053). other id: 70 BMT. Cultivated.
Seed.
- PI 509785 donor id: Gp-24503. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461057). other id: 70 BMT. Cultivated.
Seed.
- PI 509786 donor id: Gp-24504. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461058). other id: 73 BMT 2016. Cultivated.
Seed.
- PI 509787 donor id: Gp-24505. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461060). other id: 70 BMT. Cultivated.
Seed.
- PI 509788 donor id: Gp-24506. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461064). other id: 76 BMT 2016. Cultivated.
Seed.
- PI 509789 donor id: Gp-24507. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461079). other id: 72 CRO. Cultivated.
Seed.
- PI 509790 donor id: Gp-24508. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461085). other id: 74 CRO 9402. Cultivated.
Seed.
- PI 509791 donor id: Gp-24509. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461096). other id: 70 CRO. Cultivated.
Seed.
- PI 509792 donor id: Gp-24510. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461098). other id: 70 CRO. Cultivated.
Seed.
- PI 509793 donor id: Gp-24511. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461103). other id: 70 BMT. Cultivated.
Seed.
- PI 509794 donor id: Gp-24512. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461117). remarks: CRO?. Cultivated. Seed.
- PI 509795 donor id: Gp-24513. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461118). other id: 70 BMT. Cultivated.
Seed.
- PI 509796 donor id: Gp-24514. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461120). other id: 64 BMT. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509797 donor id: Gp-24516. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461129). other id: 64 BMT. Cultivated.
Seed.
- PI 509798 donor id: Gp-24517. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461130). other id: 76 BMT 2019. Cultivated.
Seed.
- PI 509799 donor id: Gp-24518. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461138). other id: 68 CRO. Cultivated.
Seed.
- PI 509800 donor id: Gp-24521. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461174). other id: 70 BMT. Cultivated.
Seed.
- PI 509801 donor id: Gp-24522. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461176). other id: 70 BMT. Cultivated.
Seed.
- PI 509802 donor id: Gp-24523. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461177). other id: 70 BMT. Cultivated.
Seed.
- PI 509803 donor id: Gp-24524. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461179). other id: 70 BMT. Cultivated.
Seed.
- PI 509804 donor id: Gp-24525. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461189). other id: 70 BMT. Cultivated.
Seed.
- PI 509805 donor id: Gp-24526. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461194). other id: 70 BMT. Cultivated.
Seed.
- PI 509806 donor id: Gp-24527. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461202). other id: 70 BMT. remarks:
("421202")-n.v. Cultivated. Seed.
- PI 509807 donor id: Gp-24528. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461204). other id: 70 BMT. Cultivated.
Seed.
- PI 509808 donor id: Gp-24529. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461209). Cultivated. Seed.
- PI 509809 donor id: Gp-24530. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461214). other id: 70 BMT. Cultivated.
Seed.

PI 509550 to 510520-continued

PI 509810 donor id: Gp-24531. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461223). Cultivated. Seed.

PI 509811 donor id: Gp-24534. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461238). Cultivated. Seed.

PI 509812 donor id: Gp-24535. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461240). other id: 74 CRO 9514. Cultivated.
Seed.

PI 509813 donor id: Gp-24536. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461241). other id: 70 BMT. Cultivated.
Seed.

PI 509814 donor id: Gp-24537. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461242). remarks: 70 BMT 1664?. Cultivated.
Seed.

PI 509815 donor id: Gp-24538. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461244). other id: CRO. Cultivated. Seed.

PI 509816 donor id: Gp-24539. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461245). Cultivated. Seed.

PI 509817 donor id: Gp-24541. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461247). other id: 70 BMT. Cultivated.
Seed.

PI 509818 donor id: Gp-24542. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461249). other id: 70 BMT. Cultivated.
Seed.

PI 509819 donor id: Gp-24544. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461271). Cultivated. Seed.

PI 509820 donor id: Gp-24545. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461275). other id: 70 BMT. Cultivated.
Seed.

PI 509821 donor id: Gp-24546. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461276). other id: 74 CRO 9586. Cultivated.
Seed.

PI 509822 donor id: Gp-24547. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461278). Cultivated. Seed.

PI 509823 donor id: Gp-24548. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461279). other id: 74 CRO 9597. Cultivated.
Seed.

PI 509824 donor id: Gp-24549. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461280). Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509825 donor id: Gp-24550. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461282). Cultivated. Seed.
- PI 509826 donor id: Gp-24551. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461283). Cultivated. Seed.
- PI 509827 donor id: Gp-24552. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461288). Cultivated. Seed.
- PI 509828 donor id: Gp-24554. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461300). other id: 74 CRO 9536. Cultivated.
Seed.
- PI 509829 donor id: Gp-24555. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461316). other id: 74 CRO 9583. Cultivated.
Seed.
- PI 509830 donor id: Gp-24556. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461321). Cultivated. Seed.
- PI 509831 donor id: Gp-24558. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461324). Cultivated. Seed.
- PI 509832 donor id: Gp-24559. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461325). Cultivated. Seed.
- PI 509833 donor id: Gp-24566. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461333). other id: 74 CRO 9440. Cultivated.
Seed.
- PI 509834 donor id: Gp-24567. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461334). Cultivated. Seed.
- PI 509835 donor id: Gp-24568. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461340). other id: 74 CRO 9433. Cultivated.
Seed.
- PI 509836 donor id: Gp-24584. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461357). Cultivated. Seed.
- PI 509837 donor id: Gp-24594. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461367). Cultivated. Seed.
- PI 509838 donor id: Gp-24596. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461369). Cultivated. Seed.
- PI 509839 donor id: Gp-24597. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461371). Cultivated. Seed.
- PI 509840 donor id: Gp-24604. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461376). other id: 75 PR 120-9724.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509841 donor id: Gp-24611. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI412162). other id: 83 DAV. Cultivated.
Seed.
- PI 509842 donor id: Gp-24612. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI417100). other id: 83 DAV. Cultivated.
Seed.
- PI 509843 donor id: Gp-24613. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI436354). Cultivated. Seed.
- PI 509844 donor id: Gp-24614. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI402279). other id: NSL 9/79. Cultivated.
Seed.
- PI 509845 donor id: Gp-24615. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI404098). other id: NSL 9/79. Cultivated.
Seed.
- PI 509846 donor id: Gp-24616. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400052). other id: 83 BMT 2197. Cultivated.
Seed.
- PI 509847 donor id: Gp-24617. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400113). other id: NSL 10/78 US type.
Cultivated. Seed.
- PI 509848 donor id: Gp-24618. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400018). other id: NSL 10/79. Cultivated.
Seed.
- PI 509849 donor id: Gp-24619. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI5883). other id: 72 SWC 149. Cultivated.
Seed.
- PI 509850 donor id: Gp-24621. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9674). other id: 72 CRO 4704. Cultivated.
Seed.
- PI 509851 donor id: Gp-24623. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9728-PI400772?). other id: 66 BMT 9728.
Cultivated. Seed.
- PI 509852 donor id: Gp-24624. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI8935? or PI400423?). Cultivated. Seed.
- PI 509853 donor id: Gp-24625. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400460). other id: 73 DAV 9007. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509854 donor id: Gp-24627. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI8994 or PI400448). other id: 70 BMT.
Cultivated. Seed.
- PI 509855 donor id: Gp-24628. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI8915). remarks: BLTS. Cultivated. Seed.
- PI 509856 donor id: Gp-24629. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI8902). remarks: BLTS. Cultivated. Seed.
- PI 509857 donor id: Gp-24630. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI8901?). remarks: BLTS. Cultivated. Seed.
- PI 509858 donor id: Gp-24632. origin: UNKNOWN. cultivar: UNKN
SGVR (Not CI8858?). remarks: BLTS. Cultivated. Seed.
- PI 509859 donor id: Gp-24634. origin: UNKNOWN. cultivar: UNKN
MGVR (WC 1128?). other id: GP-966. Cultivated. Seed.
- PI 509860 donor id: Gp-24635. origin: UNKNOWN. cultivar: UNKN
MGVR (WC5423?-PI346838?). other id: 82 EC 677.
Cultivated. Seed.
- PI 509861 donor id: Gp-24638. origin: UNKNOWN. cultivar: UNKN
LGVR (WC2990?-PI233894?). remarks: BLTS. Cultivated.
Seed.
- PI 509862 donor id: Gp-24639. origin: UNKNOWN. cultivar: UNKN
MGVR (WC2937?-PI175026?). remarks: BLTS. Cultivated.
Seed.
- PI 509863 donor id: Gp-24641. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9855). other id: 83 DAV 11774. Cultivated.
Seed.
- PI 509864 donor id: Gp-24648. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9755). remarks: BLTS. Cultivated. Seed.
- PI 509865 donor id: Gp-24655. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9723?). remarks: BLTS. Cultivated. Seed.
- PI 509866 donor id: Gp-24656. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI 9714). other id: 85 BLTS. Cultivated.
Seed.
- PI 509867 donor id: Gp-24657. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9510 or PI400675). other id: 70 BMT 9510.
Cultivated. Seed.
- PI 509868 donor id: Gp-24658. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9502 or PI400619). other id: CRO.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509869 donor id: Gp-24662. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9495?). remarks: BLTS. Cultivated. Seed.
- PI 509870 donor id: Gp-24667. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9144). remarks: BLTS. Cultivated. Seed.
- PI 509871 donor id: Gp-24670. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9029 or PI400471). other id: 73 DAV 9029.
Cultivated. Seed.
- PI 509872 donor id: Gp-24671. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9025 or PI400469). other id: 73 DAV 9025.
Cultivated. Seed.
- PI 509873 donor id: Gp-24672. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9506? or PI183699?). other id: 72 SWC 127.
Cultivated. Seed.
- PI 509874 donor id: Gp-24673. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400079? Not Caloro). other id: NSL 9/79.
Cultivated. Seed.
- PI 509875 donor id: Gp-24674. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9520 or PI400694). other id: 74 CRO 9520.
Cultivated. Seed.
- PI 509876 donor id: Gp-24675. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9137 or PI400525). other id: 73 BMT 9137.
Cultivated. Seed.
- PI 509877 donor id: Gp-24676. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9020 or PI400466). other id: 73 DAV 9020.
Cultivated. Seed.
- PI 509878 donor id: Gp-24677. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9019 or PI400465). other id: 73 DAV 9019.
Cultivated. Seed.
- PI 509879 donor id: Gp-24678. origin: UNKNOWN. cultivar: UNKN
LGVR (PI338583? Not IR8). other id: 77 BIGGS 30010.
Cultivated. Seed.
- PI 509880 donor id: Gp-24679. origin: UNKNOWN. cultivar: UNKN
SGVR (PI338483? Not IR8). other id: 79 EC 3.
Cultivated. Seed.
- PI 509881 donor id: Gp-24681. origin: UNKNOWN. cultivar: UNKN
LGVR (PI392133? Not IR8). other id: 77 EC 3582.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509882 donor id: Gp-24682. origin: UNKNOWN. cultivar: UNKN
MGVR (PI400287? Not IR8). other id: 78 EC 8754.
Cultivated. Seed.
- PI 509883 donor id: Gp-24683. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400523). other id: 68 BMT or CRO 9130.
Cultivated. Seed.
- PI 509884 donor id: Gp-24684. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400524). other id: 70 BMT 9136. Cultivated.
Seed.
- PI 509885 donor id: Gp-24685. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400527). other id: 64 BMT 9143. Cultivated.
Seed.
- PI 509886 donor id: Gp-24686. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400537). other id: 70 BMT 9180. Cultivated.
Seed.
- PI 509887 donor id: Gp-24687. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400539). other id: 70 CRO 9551. Cultivated.
Seed.
- PI 509888 donor id: Gp-24688. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400542). other id: 70 BMT 9186. Cultivated.
Seed.
- PI 509889 donor id: Gp-24689. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400544). other id: 70 BMT 9188. Cultivated.
Seed.
- PI 509890 donor id: Gp-24690. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400545). other id: 74 CRO 9398. Cultivated.
Seed.
- PI 509891 donor id: Gp-24691. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400547). other id: 77 CRO 9401. Cultivated.
Seed.
- PI 509892 donor id: Gp-24692. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400548). other id: 74 CRO 9399. Cultivated.
Seed.
- PI 509893 donor id: Gp-24694. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400555). other id: 77 CRO 5826. Cultivated.
Seed.
- PI 509894 donor id: Gp-24695. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400555). other id: 70 BMT 9209. Cultivated.
Seed.

PI 509550 to 510520-continued

PI 509895 donor id: Gp-24696. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400557). other id: 70 BMT 9213. Cultivated.
Seed.

PI 509896 donor id: Gp-24697. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400558). other id: 70 BMT 9215. Cultivated.
Seed.

PI 509897 donor id: Gp-24698. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400559). other id: 70 BMT 9216. Cultivated.
Seed.

PI 509898 donor id: Gp-24699. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400560). other id: 76 BMT 2017. Cultivated.
Seed.

PI 509899 donor id: Gp-24701. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400562). other id: 70 BMT 9227. Cultivated.
Seed.

PI 509900 donor id: Gp-24702. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400566). other id: 64 BMT 9240. Cultivated.
Seed.

PI 509901 donor id: Gp-24703. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400568). remarks: PR? 081. Cultivated.
Seed.

PI 509902 donor id: Gp-24704. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400569). other id: 64 BMT 9255. Cultivated.
Seed.

PI 509903 donor id: Gp-24705. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400574). other id: 64 BMT 9266. Cultivated.
Seed.

PI 509904 donor id: Gp-24706. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400575). other id: 70 BMT 9267. Cultivated.
Seed.

PI 509905 donor id: Gp-24707. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400584). other id: 70 BMT 9292. Cultivated.
Seed.

PI 509906 donor id: Gp-24708. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400587). other id: 72 BIGGS 17827.
Cultivated. Seed.

PI 509907 donor id: Gp-24710. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400589). other id: 73 BIGGS 9308.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509908 donor id: Gp-24714. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400593). other id: 72 BIGGS 17833.
Cultivated. Seed.
- PI 509909 donor id: Gp-24717. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400597). other id: 72 BIGGS 17838.
Cultivated. Seed.
- PI 509910 donor id: Gp-24718. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400600). other id: 73 BIGGS 9324.
Cultivated. Seed.
- PI 509911 donor id: Gp-24721. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400608). other id: 73 BIGGS 9737.
Cultivated. Seed.
- PI 509912 donor id: Gp-24722. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400610). other id: 72 BIGGS 17846.
Cultivated. Seed.
- PI 509913 donor id: Gp-24723. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400620). other id: 70 BMT 9357. Cultivated.
Seed.
- PI 509914 donor id: Gp-24724. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400621). other id: 70 BMT 9352. Cultivated.
Seed.
- PI 509915 donor id: Gp-24725. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400621?). other id: 77 BMT 2061.
Cultivated. Seed.
- PI 509916 donor id: Gp-24726. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400622). other id: 70 BMT 9353. Cultivated.
Seed.
- PI 509917 donor id: Gp-24727. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400623). other id: 70 BMT 9354. Cultivated.
Seed.
- PI 509918 donor id: Gp-24728. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400629). other id: 70 BMT 9362. Cultivated.
Seed.
- PI 509919 donor id: Gp-24729. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400630). other id: 70 BMT 9364. Cultivated.
Seed.
- PI 509920 donor id: Gp-24730. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400631). other id: 70 BMT 9365. Cultivated.
Seed.

PI 509550 to 510520-continued

PI 509921 donor id: Gp-24731. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400632). other id: 70 BMT 9366. Cultivated.
Seed.

PI 509922 donor id: Gp-24732. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400633). other id: 70 BMT 9367. Cultivated.
Seed.

PI 509923 donor id: Gp-24733. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400635). other id: 64 BMT 9369. Cultivated.
Seed.

PI 509924 donor id: Gp-24735. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400637). other id: 70 BMT 9371. Cultivated.
Seed.

PI 509925 donor id: Gp-24737. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400640). other id: 70 BMT 9379. Cultivated.
Seed.

PI 509926 donor id: Gp-24739. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400642). other id: 70 BMT 9385. Cultivated.
Seed.

PI 509927 donor id: Gp-24741. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400666). other id: 70 BMT 9479. Cultivated.
Seed.

PI 509928 donor id: Gp-24742. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400667). other id: 70 BMT 9480. Cultivated.
Seed.

PI 509929 donor id: Gp-24743. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400668). other id: 70 BMT 9486. Cultivated.
Seed.

PI 509930 donor id: Gp-24744. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400670). other id: 70 BMT 9489. Cultivated.
Seed.

PI 509931 donor id: Gp-24745. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400671). other id: 64 BMT 9497. Cultivated.
Seed.

PI 509932 donor id: Gp-24746. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI430080). other id: 82 EC 189. Cultivated.
Seed.

PI 509933 donor id: Gp-24747. origin: UNKNOWN. cultivar: UNKN
LGVR (431424? Not IR8). other id: 79 EC 1549.
Cultivated. Seed.

PI 509550 to 510520-continued

PI 509934 donor id: Gp-24748. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI433512). other id: 82 EC 212. Cultivated.
Seed.

PI 509935 donor id: Gp-24749. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460381). other id: 77 PR. Cultivated.
Seed.

PI 509936 donor id: Gp-24750. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI460482). other id: 77 BIGGS 5606.
Cultivated. Seed.

PI 509937 donor id: Gp-24751. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460742). other id: 79 PR. Cultivated.
Seed.

PI 509938 donor id: Gp-24752. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460742). other id: 79 PR. Cultivated.
Seed.

PI 509939 donor id: Gp-24753. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI460931). other id: 78 DAV 25602.
Cultivated. Seed.

PI 509940 donor id: Gp-24754. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460972). other id: 78 DAV 25607.
Cultivated. Seed.

PI 509941 donor id: Gp-24755. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI460973). other id: 78 DAV 25608.
Cultivated. Seed.

PI 509942 donor id: Gp-24756. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI460973). other id: 73 DAV. Cultivated.
Seed.

PI 509943 donor id: Gp-24758. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460977). remarks: 66 EC?. Cultivated.
Seed.

PI 509944 donor id: Gp-24759. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461011). remarks: BLTS?. Cultivated. Seed.

PI 509945 donor id: Gp-24761. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461027). remarks: BLTS?. Cultivated. Seed.

PI 509946 donor id: Gp-24762. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461032). other id: 76 BMT 2012. Cultivated.
Seed.

PI 509947 donor id: Gp-24763. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461038). remarks: BLTS?. Cultivated. Seed.

PI 509550 to 510520-continued

PI 509948 donor id: Gp-24764. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461058). remarks: PR 066?. Cultivated.
Seed.

PI 509949 donor id: Gp-24765. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461092). remarks: BLTS?. Cultivated. Seed.

PI 509950 donor id: Gp-24766. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461095). other id: 73 BMT 2017. Cultivated.
Seed.

PI 509951 donor id: Gp-24767. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461113). Cultivated. Seed.

PI 509952 donor id: Gp-24768. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461120). remarks: PR 080?. Cultivated.
Seed.

PI 509953 donor id: Gp-24769. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461122). remarks: PR 082?. Cultivated.
Seed.

PI 509954 donor id: Gp-24770. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461124). other id: 76 BMT 2018. Cultivated.
Seed.

PI 509955 donor id: Gp-24771. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461127). remarks: PR 085?. Cultivated.
Seed.

PI 509956 donor id: Gp-24772. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461134). remarks: PR 089?. Cultivated.
Seed.

PI 509957 donor id: Gp-24773. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461137). remarks: PR 090?. Cultivated.
Seed.

PI 509958 donor id: Gp-24774. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI461142). remarks: BLTS?. Cultivated. Seed.

PI 509959 donor id: Gp-24775. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461147). remarks: BLTS?. Cultivated. Seed.

PI 509960 donor id: Gp-24776. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461171). other id: 70 BMT. Cultivated.
Seed.

PI 509961 donor id: Gp-24777. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461195). other id: 70 BMT. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509962 donor id: Gp-24778. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461197). other id: 70 BMT. Cultivated.
Seed.
- PI 509963 donor id: Gp-24779. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461216). other id: 70 BMT. Cultivated.
Seed.
- PI 509964 donor id: Gp-24781. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461250). other id: 70 BMT. Cultivated.
Seed.
- PI 509965 donor id: Gp-24783. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI461352). other id: 78 DAV 25629.
Cultivated. Seed.
- PI 509966 donor id: Gp-24786. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461380). other id: 66 BMT. Cultivated.
Seed.
- PI 509967 donor id: Gp-24790. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400487). remarks: 68 STG?. Cultivated.
Seed.
- PI 509968 donor id: Gp-24791. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400487). other id: 78 DAV 25612.
Cultivated. Seed.
- PI 509969 donor id: Gp-24792. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400490). other id: 70 BMT. Cultivated.
Seed.
- PI 509970 donor id: Gp-24793. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400499). remarks: BLTS. Cultivated. Seed.
- PI 509971 donor id: Gp-24794. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400500). other id: BMT 2013. Cultivated.
Seed.
- PI 509972 donor id: Gp-24795A. origin: UNKNOWN. cultivar: UNKN
LGVR (L) (Not PI400516). other id: 70 BMT 9122.
Cultivated. Seed.
- PI 509973 donor id: Gp-24795B. origin: UNKNOWN. cultivar: UNKN
LGVR(E) (Not PI400516). other id: 70 BMT 9122.
Cultivated. Seed.
- PI 509974 donor id: Gp-24796. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400530?). remarks: BLTS. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 509975 donor id: Gp-24797. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400530). other id: 70 BIGGS 9149.
Cultivated. Seed.
- PI 509976 donor id: Gp-24798. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400645). other id: 70 BMT 9390. Cultivated.
Seed.
- PI 509977 donor id: Gp-24799. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400646). other id: 70 BMT 9391. Cultivated.
Seed.
- PI 509978 donor id: Gp-24802. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400649). other id: 70 BMT. Cultivated.
Seed.
- PI 509979 donor id: Gp-24804. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400650). other id: 70 BMT 9424. Cultivated.
Seed.
- PI 509980 donor id: Gp-24805. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400651). other id: 70 BMT 9425. Cultivated.
Seed.
- PI 509981 donor id: Gp-24807. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400652). other id: 70 BMT 9426. Cultivated.
Seed.
- PI 509982 donor id: Gp-24808. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400655). other id: 70 BMT 9430. Cultivated.
Seed.
- PI 509983 donor id: Gp-24809. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400656). other id: 70 BMT 9431. Cultivated.
Seed.
- PI 509984 donor id: Gp-24810. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400657). other id: 72 BMT 9439. Cultivated.
Seed.
- PI 509985 donor id: Gp-24811. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400658). other id: 70 BMT 9440. Cultivated.
Seed.
- PI 509986 donor id: Gp-24812. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400659). other id: 70 BMT 9441. Cultivated.
Seed.
- PI 509987 donor id: Gp-24813. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400660). remarks: BMT 9444?. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 509988 donor id: Gp-24814. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400662). other id: 74 BMT or CRO 9432.
Cultivated. Seed.
- PI 509989 donor id: Gp-24815. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400663). other id: 70 BMT 9470. Cultivated.
Seed.
- PI 509990 donor id: Gp-24816. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI400665). other id: 70 BMT 9472. Cultivated.
Seed.
- PI 509991 donor id: Gp-24817. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400672). other id: 64 BMT 9498. Cultivated.
Seed.
- PI 509992 donor id: Gp-24818. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400673). other id: 64 BMT 9507. Cultivated.
Seed.
- PI 509993 donor id: Gp-24819. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400674). other id: 70 BMT 9508. Cultivated.
Seed.
- PI 509994 donor id: Gp-25071. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI373786?). other id: 83 BMT 2189.
Cultivated. Seed.
- PI 509995 donor id: Gp-25197. origin: UNKNOWN. cultivar: UNKN
MGVR (PI392776?). other id: NSL 10/78. remarks: Single
plant. Cultivated. Seed.
- PI 509996 donor id: Gp-25209. origin: UNKNOWN. cultivar: UNKN
MGVR (PI393023?). other id: NSL 10/78 and 9/79.
remarks: Single plant. Cultivated. Seed.
- PI 509997 donor id: Gp-25384. origin: UNKNOWN. cultivar: UNKN
MGVR (PI109367 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 509998 donor id: Gp-25385. origin: UNKNOWN. cultivar: UNKN
LGVR (PI109885 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 509999 donor id: Gp-25387. origin: UNKNOWN. cultivar: UNKN
MGVR (PI150014 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510000 donor id: Gp-25388. origin: UNKNOWN. cultivar: UNKN
MGVR (PI150017 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510001 donor id: Gp-25389. origin: UNKNOWN. cultivar: UNKN
SGVR (PI150582 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510002 donor id: Gp-25390. origin: UNKNOWN. cultivar: BOLERO
SEED PALAY? (PI159697?). other id: BLTS 4085. remarks:
Single plant. Cultivated. Seed.
- PI 510003 donor id: Gp-25391. origin: UNKNOWN. cultivar: UNKN
MGVR (PI160059 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510004 donor id: Gp-25392. origin: UNKNOWN. cultivar: UNKN
MGVR (PI160077 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510005 donor id: Gp-25397. origin: UNKNOWN. cultivar: ASKAM
36/14K? (PI160473?). other id: BLTS 4085. remarks:
Single plant. Cultivated. Seed.
- PI 510006 donor id: Gp-25410. origin: UNKNOWN. cultivar: YEN FANG
CHU? (PI160749?). other id: BLTS 4085. remarks: Single
plant. Cultivated. Seed.
- PI 510007 donor id: Gp-25428. origin: UNKNOWN. cultivar: KOREA
56? (PI162217?). other id: BLTS 4085. remarks: Single
plant. Cultivated. Seed.
- PI 510008 donor id: Gp-25430. origin: UNKNOWN. cultivar: KOREA
146? (PI162220?). other id: BLTS 4085. remarks: Single
plant. Cultivated. Seed.
- PI 510009 donor id: Gp-25436. origin: UNKNOWN. cultivar: KOREA
89? (PI162323?). other id: BLTS 4085. remarks: Single
plant. Cultivated. Seed.
- PI 510010 donor id: Gp-25450. origin: UNKNOWN. cultivar: UNKN
MGVR (PI163351 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510011 donor id: Gp-25452. origin: UNKNOWN. cultivar: UNKN
MGVR (PI165025 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510012 donor id: Gp-25453. origin: UNKNOWN. cultivar: UNKN
MGVR (PI165026 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510013 donor id: Gp-25454. origin: UNKNOWN. cultivar: UNKN
LGVR (PI165029 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 509550 to 510520-continued

PI 510014 donor id: Gp-25455. origin: UNKNOWN. cultivar: UNKN
MGVR (PI165030 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510015 donor id: Gp-25456. origin: UNKNOWN. cultivar: UNKN
MGVR (PI165032 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510016 donor id: Gp-25458. origin: UNKNOWN. cultivar: UNKN
MGVR (PI165568 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510017 donor id: Gp-25459. origin: UNKNOWN. cultivar: UNKN
MGVR (PI166666 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510018 donor id: Gp-25462. origin: UNKNOWN. cultivar: UNKN
MGVR (PI167019 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510019 donor id: Gp-25465. origin: UNKNOWN. cultivar: UNKN
MGVR (PI170020 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510020 donor id: Gp-25466. origin: UNKNOWN. cultivar: UNKN
MGVR (PI173613 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510021 donor id: Gp-25467. origin: UNKNOWN. cultivar: UNKN
LGVR (PI180660 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510022 donor id: Gp-25475. origin: UNKNOWN. cultivar: UNKN
MGVR (PI184674 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510023 donor id: Gp-25481. origin: UNKNOWN. cultivar: UNKN
LGVR (PI189917 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510024 donor id: Gp-25482. origin: UNKNOWN. cultivar: UNKN
SGVR (PI190136 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510025 donor id: Gp-25503. origin: UNKNOWN. cultivar: UNKN
LGVR (PI202203 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 510026 donor id: Gp-25504. origin: UNKNOWN. cultivar: UNKN
SGVR (PI202917 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510027 donor id: Gp-25516. origin: UNKNOWN. cultivar: KINSAKU MOCHI L.48?(PI202972?). other id: BLTS 4085. remarks: Single plant. Cultivated. Seed.
- PI 510028 donor id: Gp-25533. origin: UNKNOWN. cultivar: UNKN MGVR (PI205918 non-valid). other id: BLTS 4085. remarks: Single plant. Cultivated. Seed.
- PI 510029 donor id: Gp-25537. origin: UNKNOWN. cultivar: UNKN MGVR (PI209801 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510030 donor id: Gp-25541. origin: UNKNOWN. cultivar: KAOHSIANG 24? (PI209990?). other id: BLTS 4085. remarks: Single plant. Cultivated. Seed.
- PI 510031 donor id: Gp-25542. origin: UNKNOWN. cultivar: UNKN MGVR (PI214007 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510032 donor id: Gp-25544. origin: UNKNOWN. cultivar: UNKN MGVR (PI214213 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510033 donor id: 9800. origin: UNKNOWN. origin institute id: IND-81-118. cultivar: UNKN SGVR (PI214480 non-valid). Cultivated. Seed.
- PI 510034 donor id: Gp-25547. origin: UNKNOWN. cultivar: UNKN MGVR (PI215488 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510035 donor id: Gp-25589. origin: UNKNOWN. cultivar: TAINAN IKU 489? (PI215938?). other id: BLTS 4085. remarks: Single plant. Cultivated. Seed.
- PI 510036 donor id: Gp-25595. origin: UNKNOWN. cultivar: TAINAN IKU 513? (PI215955?). other id: BLTS 4085. Cultivated. Seed.
- PI 510037 donor id: Gp-25619. origin: UNKNOWN. cultivar: UNKN MGVR (PI219276 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510038 donor id: Gp-25652. origin: UNKNOWN. cultivar: UNKN SGVR (PI220974 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510039 donor id: Gp-25654. origin: UNKNOWN. cultivar: UNKN MGVR (PI221224 non-valid). other id: BLTS 4085. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510040 donor id: Gp-25655. origin: UNKNOWN. cultivar: UNKN
MGVR (PI221678 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510041 donor id: Gp-25669. origin: UNKNOWN. cultivar: UNKN
MGVR (PI223362 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510042 donor id: Gp-25672. origin: UNKNOWN. cultivar: UNKN
SGVR (PI224462 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510043 donor id: Gp-25683. origin: UNKNOWN. cultivar: HARUTA
ASAHI? (PI224812?). other id: BLTS 4085. remarks:
Single plant. Cultivated. Seed.
- PI 510044 donor id: Gp-25701. origin: UNKNOWN. cultivar: TONO 4?
(PI224925?). other id: BLTS 4085. remarks: Single
plant. Cultivated. Seed.
- PI 510045 donor id: Gp-25704. origin: UNKNOWN. cultivar: WASE
AKIOKU3? (PI224932?). other id: BLTS 4085. remarks:
Single plant. Cultivated. Seed.
- PI 510046 donor id: Gp-25707. origin: UNKNOWN. cultivar: UNKN
MGVR (PI225191 non-valid). other id: BLTS 4085.
remarks: Single plant. Cultivated. Seed.
- PI 510047 donor id: Gp-25708. origin: UNKNOWN. cultivar: UNKN
MGVR (PI226094 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510048 donor id: Gp-25726A. origin: UNKNOWN. cultivar: AGAME
MONTAKHAE 1? (PI226304?). other id: BLTS 4085 EY CROP.
remarks: Early crop. Cultivated. Seed.
- PI 510049 donor id: Gp-25726B. origin: UNKNOWN. cultivar: AGAME
MONTAKHAE 1? (PI226304?). other id: BLTS 4085 LATE CROP.
remarks: Late Crop. Cultivated. Seed.
- PI 510050 donor id: Gp-25792. origin: UNKNOWN. cultivar: C2 56 1
1? (PI226412?). other id: BLTS 4085. remarks: Single
plant. Cultivated. Seed.
- PI 510051 donor id: Gp-25822. origin: UNKNOWN. cultivar: UNKN
MGVR (PI231114 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510052 donor id: Gp-25841. origin: UNKNOWN. cultivar: UNKN
SGVR (PI233489 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510053 donor id: Gp-25859. origin: UNKNOWN. cultivar: ZAIRE 21199? (PI247693 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510054 donor id: Gp-25866. origin: UNKNOWN. cultivar: UNKN MGVR (PI248162 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510055 donor id: Gp-25869. origin: UNKNOWN. cultivar: UNKN MGVR (PI254758 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510056 donor id: Gp-25872. origin: UNKNOWN. cultivar: UNKN LGVR (PI260059 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510057 donor id: Gp-25873. origin: UNKNOWN. cultivar: UNKN MGVR (PI260079 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510058 donor id: Gp-25878. origin: UNKNOWN. cultivar: UNKN MGVR (PI262979 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510059 donor id: Gp-25901. origin: UNKNOWN. cultivar: UNKN LGVR (PI265340 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510060 donor id: Gp-25902. origin: UNKNOWN. cultivar: UNKN MGVR (PI265986 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510061 donor id: Gp-25903. origin: UNKNOWN. cultivar: UNKN LGVR (PI266069 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510062 donor id: Gp-25904. origin: UNKNOWN. cultivar: UNKN MGVR (PI266188 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510063 donor id: Gp-25905. origin: UNKNOWN. cultivar: UNKN MGVR (PI266816 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510064 donor id: Gp-25906. origin: UNKNOWN. cultivar: UNKN MGVR (PI266817 non-valid). other id: BLTS 4085. Cultivated. Seed.
- PI 510065 donor id: Gp-25907. origin: UNKNOWN. cultivar: SML ACORNI? (PI267251 non-valid). other id: BLTS 4085. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510066 donor id: Gp-25908. origin: UNKNOWN. cultivar: UNKN
MGVR (PI267253 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510067 donor id: Gp-25913. origin: UNKNOWN. cultivar: UNKN
MGVR (PI270680 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510068 donor id: Gp-25914. origin: UNKNOWN. cultivar: UNKN
SGVR (PI271114 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510069 donor id: Gp-25919. origin: UNKNOWN. cultivar: UNKN
MGVR (PI274225 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510070 donor id: Gp-25921. origin: UNKNOWN. cultivar: UNKN
MGVR (PI274425 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510071 donor id: Gp-25922. origin: UNKNOWN. cultivar: UNKN
MGVR (PI274434 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510072 donor id: Gp-25923. origin: UNKNOWN. cultivar: UNKN
MGVR (PI274443 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510073 donor id: Gp-25924. origin: UNKNOWN. cultivar: SUWON
143?(PI274471?). other id: BLTS 4085. remarks: Single
plant. Cultivated. Seed.
- PI 510074 donor id: Gp-25927. origin: UNKNOWN. cultivar: UNKN
MGVR (PI274725 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510075 donor id: Gp-25928. origin: UNKNOWN. cultivar: UNKN
LGVR (PI274948 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510076 donor id: Gp-25941. origin: UNKNOWN. cultivar: UNKN
MGVR (PI277119 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510077 donor id: Gp-25952. origin: UNKNOWN. cultivar: TAICHUNG
170? (PI277240?). other id: BLTS 4085. remarks: Single
plant. Cultivated. Seed.
- PI 510078 donor id: Gp-25958. origin: UNKNOWN. cultivar: TAITUNG
24? (PI277254?). other id: BLTS 4085. remarks: Single
plant. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510079 donor id: Gp-25959. origin: UNKNOWN. cultivar: UNKN
MGVR (PI277378 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510080 donor id: Gp-25971. origin: UNKNOWN. cultivar: UNKN
MGVR (PI279581 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510081 donor id: Gp-25972. origin: UNKNOWN. cultivar: UNKN
LGVR (PI279901 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510082 donor id: Gp-25981. origin: UNKNOWN. cultivar: UNKN
SGVR (PI280687 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510083 donor id: Gp-25985. origin: UNKNOWN. cultivar: UNKN
SGVR (PI281634 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510084 donor id: Gp-25986. origin: UNKNOWN. cultivar: UNKN
MGVR (PI281635 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510085 donor id: Gp-25987. origin: UNKNOWN. cultivar: UNKN
MGVR (PI281636 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510086 donor id: Gp-26030. origin: UNKNOWN. cultivar: UNKN
MGVR (PI289893 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510087 donor id: Gp-26031. origin: UNKNOWN. cultivar: UNKN
SGVR (PI291384 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510088 donor id: Gp-26035. origin: UNKNOWN. cultivar: UNKN
MGVR (PI294290 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510089 donor id: Gp-26045. origin: UNKNOWN. cultivar: UNKN
LGVR (PI297961 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510090 donor id: Gp-26046. origin: UNKNOWN. cultivar: UNKN
MGVR (PI294578 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510091 donor id: Gp-26048. origin: UNKNOWN. cultivar: UNKN
MGVR (PI299821 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510092 donor id: Gp-26050. origin: UNKNOWN. cultivar: UNKN
LGVR (PI306646 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510093 donor id: Gp-26062. origin: UNKNOWN. cultivar: UNKN
MGVR (PI318313 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510094 donor id: Gp-26067. origin: UNKNOWN. cultivar: UNKN
LGVR (PI319579 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510095 donor id: Gp-26073. origin: UNKNOWN. cultivar: UNKN
MGVR (Not BBLE). other id: BLTS 4085. Cultivated.
Seed.
- PI 510096 donor id: Gp-26074. origin: UNKNOWN. cultivar: UNKN
MGVR (PI321525 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510097 donor id: Gp-26075. origin: UNKNOWN. cultivar: UNKN
LGVR (PI321526 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510098 donor id: Gp-26082. origin: UNKNOWN. cultivar: UNKN
LGVR (PI329638 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510099 donor id: Gp-26084. origin: UNKNOWN. cultivar: UNKN
MGVR (PI330629 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510100 donor id: Gp-26088. origin: UNKNOWN. cultivar: UNKN
SGVR (PI336126 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510101 donor id: Gp-26089. origin: UNKNOWN. cultivar: UNKN
MGVR (PI336137 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510102 donor id: Gp-26090. origin: UNKNOWN. cultivar: UNKN
MGVR (PI336139 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510103 donor id: Gp-26091. origin: UNKNOWN. cultivar: UNKN
MGVR (PI338387 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510104 donor id: Gp-26093. origin: UNKNOWN. cultivar: UNKN
LGVR (PI340042 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510105 donor id: Gp-26094. origin: UNKNOWN. cultivar: UNKN
MGVR (PI340392 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510106 donor id: Gp-26096. origin: UNKNOWN. cultivar: UNKN
MGVR (PI343091 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510107 donor id: Gp-26097. origin: UNKNOWN. cultivar: UNKN
MGVR (PI345702 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510108 donor id: Gp-26099. origin: UNKNOWN. cultivar:
H74-14-1? (PI346853?). other id: BLTS 4085. remarks:
Single plant. Cultivated. Seed.
- PI 510109 donor id: Gp-26101. origin: UNKNOWN. cultivar: UNKN
SGVR (PI346951 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510110 donor id: Gp-26102. origin: UNKNOWN. cultivar: UNKN
MGVR (PI350109 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510111 donor id: Gp-26104. origin: UNKNOWN. cultivar: UNKN
MGVR (PI350110 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510112 donor id: Gp-26106. origin: UNKNOWN. cultivar: UNKN
MGVR (PI351650 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510113 donor id: Gp-26125. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400590?). other id: NSL 10/79. Cultivated.
Seed.
- PI 510114 donor id: Gp-26171. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI400688?). other id: 83 DAV. Cultivated.
Seed.
- PI 510115 donor id: Gp-26224. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI401424?). other id: NSL 10/78. Cultivated.
Seed.
- PI 510116 donor id: Gp-26226. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI401424?). other id: 83 DAV and 83 BMT 2042.
Cultivated. Seed.
- PI 510117 donor id: Gp-26235. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI401430?). other id: 83 DAV. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 510118 donor id: Gp-26245. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI401442?). other id: 83 DAV. Cultivated.
Seed.
- PI 510119 donor id: Gp-26249. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI401446?). other id: NSL 10/78. remarks:
Single plant. Cultivated. Seed.
- PI 510120 donor id: Gp-26262. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI401452?). other id: 83 DAV. Cultivated.
Seed.
- PI 510121 donor id: Gp-26264. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI401453?). other id: 78 ADN 1159.
Cultivated. Seed.
- PI 510122 donor id: Gp-26267. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI401455?). remarks: 77 MS-146?. Cultivated.
Seed.
- PI 510123 donor id: Gp-26292. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI408661?). other id: 8 IT 374. Cultivated.
Seed.
- PI 510124 donor id: Gp-26341. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI420970?). remarks: Not MOCHI GOMI.
Cultivated. Seed.
- PI 510125 donor id: Gp-26581. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI439638?). remarks: 83 BMT 2221?.
Cultivated. Seed.
- PI 510126 donor id: Gp-26589. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI439654?). other id: 82 BMT 9364.
Cultivated. Seed.
- PI 510127 donor id: Gp-26598. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI439662?). other id: 83 BMT 2229.
Cultivated. Seed.
- PI 510128 donor id: Gp-26605. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI439670?). other id: 83 BMT 2232.
Cultivated. Seed.
- PI 510129 donor id: Gp-26607. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI439671?). other id: 83 BMT 2233.
Cultivated. Seed.
- PI 510130 donor id: Gp-26628. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI439720?). other id: 83 BMT 9405.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510131 donor id: Gp-26703. origin: UNKNOWN. cultivar: UNKN
LGVR (PI173626 non-valid). other id: NSL 10/78.
Cultivated. Seed.
- PI 510132 donor id: Gp-26763. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI173603). other id: 83 BMT 2155. Cultivated.
Seed.
- PI 510133 donor id: Gp-26765. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI176370). other id: 83 DAV. Cultivated.
Seed.
- PI 510134 donor id: Gp-26766. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI176370). other id: 83 BMT 2156. Cultivated.
Seed.
- PI 510135 donor id: Gp-26818. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI385743?). other id: NSL 6/77. Cultivated.
Seed.
- PI 510136 donor id: Gp-26829. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI385756?). other id: NSL 6/77. Cultivated.
Seed.
- PI 510137 donor id: Gp-26831. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI385757?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510138 donor id: Gp-26888. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI392611?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510139 donor id: Gp-26896. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI392620?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510140 donor id: Gp-26897. origin: UNKNOWN. cultivar: UNKN
MGVR (PI392623?, Not NIRA). other id: NSL 10/78 and
9/79. Cultivated. Seed.
- PI 510141 donor id: Gp-27018. origin: UNKNOWN. cultivar: UNKN
LGVR (PI366383? 1 PLT)2. other id: BLTS 4085.
Cultivated. Seed.
- PI 510142 donor id: Gp-27244. origin: UNKNOWN. cultivar: UNKN
MGVR (PI374224 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510143 donor id: Gp-27245. origin: UNKNOWN. cultivar: UNKN
MGVR (PI374678 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510144 donor id: Gp-27247. origin: UNKNOWN. cultivar: UNKN
MGVR (PI374824 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510145 donor id: Gp-27248. origin: UNKNOWN. cultivar: UNKN
MGVR (PI376096 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510146 donor id: Gp-27264. origin: UNKNOWN. cultivar: UNKN
MGVR (PI376876 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510147 donor id: Gp-27265. origin: UNKNOWN. cultivar: UNKN
LGVR (PI378120 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510148 donor id: Gp-27267. origin: UNKNOWN. cultivar: UNKN
MGVR (PI378758 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510149 donor id: Gp-27268. origin: UNKNOWN. cultivar: UNKN
MGVR (PI378759 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510150 donor id: Gp-27270. origin: UNKNOWN. cultivar: UNKN
MGVR (PI378763 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510151 donor id: Gp-27271. origin: UNKNOWN. cultivar: UNKN
MGVR (PI378764 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510152 donor id: Gp-27272. origin: UNKNOWN. cultivar: UNKN
MGVR (PI378770 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510153 donor id: Gp-27273. origin: UNKNOWN. cultivar: UNKN
LGVR (PI378771 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510154 donor id: Gp-27274. origin: UNKNOWN. cultivar: UNKN
LGVR (PI378772 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510155 donor id: Gp-27278. origin: UNKNOWN. cultivar: UNKN
SGVR (PI382939 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510156 donor id: Gp-27314. origin: UNKNOWN. cultivar: UNKN
MGVR (PI388083 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510157 donor id: Gp-27315. origin: UNKNOWN. cultivar: UNKN
MGVR (PI388227 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510158 donor id: Gp-27337. origin: UNKNOWN. cultivar: UNKN
MGVR (PI388872 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510159 donor id: Gp-27371. origin: UNKNOWN. cultivar: UNKN
(PI388948?). other id: BLTS 4085. Cultivated. Seed.
- PI 510160 donor id: Gp-27604. origin: UNKNOWN. cultivar: UNKN
LGVR (PI391121 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510161 donor id: Gp-27605. origin: UNKNOWN. cultivar: UNKN
SGVR (PI391135 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510162 donor id: Gp-27676. origin: UNKNOWN. cultivar: UNKN
LGVR (PI391492 non-valid). other id: BLTS 4085.
remarks: Improved type. Cultivated. Seed.
- PI 510163 donor id: Gp-27784. origin: UNKNOWN. cultivar: UNKN
MGVR (PI392269 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510164 donor id: Gp-27819. origin: UNKNOWN. cultivar: UNKN
MGVR (PI392624? Not RXOR). other id: BLTS 4085.
Cultivated. Seed.
- PI 510165 donor id: Gp-27821. origin: UNKNOWN. cultivar: UNKN
MGVR (PI392625? Not RXAR). other id: BLTS 4085.
Cultivated. Seed.
- PI 510166 donor id: Gp-27953. origin: UNKNOWN. cultivar: UNKN
MGVR (PI393903 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510167 donor id: Gp-27954. origin: UNKNOWN. cultivar: UNKN
MGVR (PI393904 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510168 donor id: Gp-27955. origin: UNKNOWN. cultivar: UNKN
SGVR (PI393908 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510169 donor id: Gp-27956. origin: UNKNOWN. cultivar: UNKN
MGVR (PI393909 non-valid). other id: BLTS 4085.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510170 donor id: Gp-27961. origin: UNKNOWN. cultivar: UNKN
LGVR (PI399637 non-valid). other id: BLTS 4085.
Cultivated. Seed.
- PI 510171 donor id: Gp-28057. origin: UNKNOWN. cultivar: UNKN
MGVR (PI402664? 1 PLT). other id: BLTS 4085.
Cultivated. Seed.
- PI 510172 donor id: Gp-28075. origin: UNKNOWN. cultivar: DULAR
TYPE (PI402687? TAIPEI 177?). other id: BLTS 4085.
Cultivated. Seed.
- PI 510173 donor id: Gp-28663. origin: UNKNOWN. cultivar: UNKN
MGVR (PI403442? DAMAGUM?). other id: BLTS 4085.
Cultivated. Seed.
- PI 510174 donor id: Gp-28731. origin: UNKNOWN. cultivar: UNKN
MGVR (WC 9005?). other id: NSL 3/77. Cultivated. Seed.
- PI 510175 donor id: Gp-28732. origin: UNKNOWN. cultivar: UNKN
MGVR (WC 9074?). other id: NSL 3/77. Cultivated. Seed.
- PI 510176 donor id: Gp-28734. origin: UNKNOWN. cultivar: UNKN
MGVR (WC 9138?). other id: NSL 3/77. Cultivated. Seed.
- PI 510177 donor id: Gp-28743. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9504). other id: Gp-4326. Cultivated.
Seed.
- PI 510178 donor id: Gp-28744. origin: UNKNOWN. cultivar: UNKN
MGVR. remarks: 455-?. Cultivated. Seed.
- PI 510179 donor id: Gp-28746. origin: UNKNOWN. cultivar: RGUE FR
PI345915. remarks: From Gp-10919. Cultivated. Seed.
- PI 510180 donor id: Gp-28747. origin: UNKNOWN. cultivar: UNKN
MGVR (PI180172 non-valid). other id: NSL 1/79.
Cultivated. Seed.
- PI 510181 donor id: Gp-28748. origin: UNKNOWN. cultivar: RGUE FR
PI391346. Cultivated. Seed.
- PI 510182 donor id: Gp-28749. origin: UNKNOWN. cultivar: RGUE FR
PI392559. Cultivated. Seed.
- PI 510183 donor id: Gp-28750. origin: UNKNOWN. cultivar: RGUE FR
PI392576. Cultivated. Seed.
- PI 510184 donor id: Gp-28751. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI280678). other id: 83 CRO 670 (US Type).
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510185 donor id: Gp-28753. origin: UNKNOWN. cultivar: UNKN
MGVR (PI350109 non-valid). other id: NSL 9/79.
Cultivated. Seed.
- PI 510186 donor id: Gp-28783. origin: UNKNOWN. cultivar: UNKN
MGVR (PI376931 non-valid). other id: NSL 9/77.
Cultivated. Seed.
- PI 510187 donor id: Gp-28788. origin: UNKNOWN. cultivar: RGUE FR
PI388400. remarks: Improved. Long-grain. Cultivated.
Seed.
- PI 510188 donor id: Gp-28794. origin: UNKNOWN. cultivar: UNKN
MGVR (PI389089?). other id: NSL 1/79. Cultivated.
Seed.
- PI 510189 donor id: Gp-28808. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400288? Not CALO). other id: NSL 9/79.
Cultivated. Seed.
- PI 510190 donor id: Gp-28809. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI400526). other id: 70 BMT 9138. Cultivated.
Seed.
- PI 510191 donor id: Gp-28836. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI459839). other id: 69 BMT. Cultivated.
Seed.
- PI 510192 donor id: Gp-28837. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI460205). other id: 69 BMT. Cultivated.
Seed.
- PI 510193 donor id: Gp-28838. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460625). other id: 69 CRO. Cultivated.
Seed.
- PI 510194 donor id: Gp-28839. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460664). remarks: 69 CRO?. Cultivated.
Seed.
- PI 510195 donor id: Gp-28841. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI460804). other id: 64 BMT. Cultivated.
Seed.
- PI 510196 donor id: Gp-28842. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460853). other id: 74 CRO 9322. Cultivated.
Seed.
- PI 510197 donor id: Gp-28857. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI431304, Not IR 20). other id: 79 EC 1423.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510198 donor id: Gp-28876. origin: UNKNOWN. cultivar: UNKN LGVR (Not PI312765). other id: NSL 9/79. Cultivated. Seed.
- PI 510199 donor id: Gp-28877. origin: UNKNOWN. cultivar: UNKN LGVR FR PI303680. other id: NSL 9/79. Cultivated. Seed.
- PI 510200 donor id: Gp-28881. origin: UNKNOWN. cultivar: UNKN LGVR (Not PI331432). other id: 83 DAV. Cultivated. Seed.
- PI 510201 donor id: Gp-28882. origin: UNKNOWN. cultivar: ULGV RGUE FR PI331644. other id: 83 WCM-57. Cultivated. Seed.
- PI 510202 donor id: Gp-28883. origin: UNKNOWN. cultivar: ULGV RGUE FR PI338167. other id: NSL 3/77. remarks: 83 WMC? 401. Cultivated. Seed.
- PI 510203 donor id: Gp-28884. origin: UNKNOWN. cultivar: UNKN SGVR (Not PI 346925). other id: 83 DAV 11831. Cultivated. Seed.
- PI 510204 donor id: Gp-28885. origin: UNKNOWN. cultivar: UNKN MGVR (Not PI349410). other id: NSL 3/77. Cultivated. Seed.
- PI 510205 donor id: Gp-28886. origin: UNKNOWN. cultivar: UNKN LGVR (Not PI353760). other id: NSL 9/79. Cultivated. Seed.
- PI 510206 donor id: Gp-28887. origin: UNKNOWN. cultivar: UNKN SGVR (Not PI365203). other id: NSL 3/73 Stp 10153. Cultivated. Seed.
- PI 510207 donor id: Gp-28888. origin: UNKNOWN. cultivar: ULGV RGUE FR PI372990. other id: NSL 3/77. Cultivated. Seed.
- PI 510208 donor id: Gp-28890. origin: UNKNOWN. cultivar: UNKN SGVR. other id: NSL 3/77. Cultivated. Seed.
- PI 510209 donor id: Gp-28891. origin: UNKNOWN. cultivar: UNKN LGVR(Not PI388502). other id: NSL 10/79. Cultivated. Seed.
- PI 510210 donor id: Gp-28892. origin: UNKNOWN. cultivar: ULGV FR PI388528. other id: NSL 6/77. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510211 donor id: Gp-28893. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI388556). other id: NSL 1/79. Cultivated.
Seed.
- PI 510212 donor id: Gp-28894. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI388587). other id: 83 BMT 2398. Cultivated.
Seed.
- PI 510213 donor id: Gp-28895. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI389316). Cultivated. Seed.
- PI 510214 donor id: Gp-28896. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI389366). other id: NSL 9/79. Cultivated.
Seed.
- PI 510215 donor id: Gp-28897. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI389417). Cultivated. Seed.
- PI 510216 donor id: Gp-28898. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI392634). other id: NSL 10/78. Cultivated.
Seed.
- PI 510217 donor id: Gp-28899. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI461071). other id: 72 CRO. Cultivated.
Seed.
- PI 510218 donor id: Gp-28901. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI460619). other id: 74 CRO 9320. Cultivated.
Seed.
- PI 510219 donor id: Gp-28902. origin: UNKNOWN. cultivar: EY RGUE
FR PI417847. remarks: From Gp-884. Cultivated. Seed.
- PI 510220 donor id: Gp-28903. origin: UNKNOWN. cultivar: EY RGUE
FR CI8110. remarks: From Gp-2442. Cultivated. Seed.
- PI 510221 donor id: Gp-28904. origin: UNKNOWN. cultivar: EY RGUE
FR CI8369. remarks: From Gp-2574. Cultivated. Seed.
- PI 510222 donor id: Gp-28905. origin: UNKNOWN. cultivar: RGUE FR
CI8483. remarks: From Gp-2729. Cultivated. Seed.
- PI 510223 donor id: Gp-28906. origin: UNKNOWN. cultivar: RGUE FR
CI8513. remarks: From Gp-2753. Cultivated. Seed.
- PI 510224 donor id: Gp-28907. origin: UNKNOWN. cultivar: RGUE FR
CI8564. remarks: From Gp-2790. Cultivated. Seed.
- PI 510225 donor id: Gp-28908. origin: UNKNOWN. cultivar: RGUE FR
CI8614. remarks: From Gp-2812. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510226 donor id: Gp-28909. origin: UNKNOWN. cultivar: RGUE FR CI8660. remarks: From Gp-2910. Cultivated. Seed.
- PI 510227 donor id: Gp-28910. origin: UNKNOWN. cultivar: RGUE FR CI8900. remarks: From Gp-3226. Cultivated. Seed.
- PI 510228 donor id: Gp-28911. origin: UNKNOWN. cultivar: RGUE FR CI9018?. remarks: From Gp-3419. Cultivated. Seed.
- PI 510229 donor id: Gp-28912. origin: UNKNOWN. cultivar: RGUE FR CI9422. remarks: From Gp-4151. Cultivated. Seed.
- PI 510230 donor id: Gp-28913. origin: UNKNOWN. cultivar: RGUE FR CI9500. remarks: From Gp-4317. Cultivated. Seed.
- PI 510231 donor id: Gp-28914. origin: UNKNOWN. cultivar: RGUE FR CI11055. remarks: From Gp-5105. Cultivated. Seed.
- PI 510232 donor id: Gp-28915. origin: UNKNOWN. cultivar: RGUE FR CI12443. remarks: From Gp-5113. Cultivated. Seed.
- PI 510233 donor id: Gp-28916. origin: UNKNOWN. cultivar: RGUE FR PI160862-1. remarks: From Gp-5136. Cultivated. Seed.
- PI 510234 donor id: Gp-28917. origin: UNKNOWN. cultivar: RGUE FR PI208456-2 (Late). remarks: From Gp-5221. Cultivated. Seed.
- PI 510235 donor id: Gp-28918. origin: UNKNOWN. cultivar: RGUE FR PI208456-2 (Early). remarks: From Gp-5221. Cultivated. Seed.
- PI 510236 donor id: Gp-28919. origin: UNKNOWN. cultivar: RGUE FR PI162153 (DWRP). remarks: From Gp-5226. Cultivated. Seed.
- PI 510237 donor id: Gp-28921. origin: UNKNOWN. cultivar: RGUE FR PI215936 (T487). remarks: From Gp-5273. Cultivated. Seed.
- PI 510238 donor id: Gp-28922. origin: UNKNOWN. cultivar: RGUE FR PI280681 (TDCN). remarks: From Gp-5275. Cultivated. Seed.
- PI 510239 donor id: Gp-28923. origin: UNKNOWN. cultivar: RGUE FR PI160568. remarks: From Gp-5573. Cultivated. Seed.
- PI 510240 donor id: Gp-28924. origin: UNKNOWN. cultivar: RGUE FR PI160925. remarks: From Gp-6149. Cultivated. Seed.
- PI 510241 donor id: Gp-28925. origin: UNKNOWN. cultivar: RGUE FR NTAI CI9836. remarks: From Gp-6500. Cultivated. Seed.

PI 509550 to 510520-continued

PI 510242 donor id: Gp-28926. origin: UNKNOWN. cultivar: RGUE FR
PI177223. remarks: From Gp-6976. Cultivated. Seed.

PI 510243 donor id: Gp-28927. origin: UNKNOWN. cultivar: RGUE FR
PI177223. remarks: From Gp-6978. Cultivated. Seed.

PI 510244 donor id: Gp-28928. origin: UNKNOWN. cultivar: RGUE FR
PI183700. remarks: From Gp-7034. Cultivated. Seed.

PI 510245 donor id: Gp-28929. origin: UNKNOWN. cultivar: RGUE FR
PI184124. remarks: From Gp-7038. Cultivated. Seed.

PI 510246 donor id: Gp-28930. origin: UNKNOWN. cultivar: RGUE FR
PI187092. remarks: From Gp-7115. Cultivated. Seed.

PI 510247 donor id: Gp-28931. origin: UNKNOWN. cultivar: RGUE FR
PI189452. remarks: From Gp-7130. Cultivated. Seed.

PI 510248 donor id: Gp-28932. origin: UNKNOWN. cultivar: RGUE FR
PI193152. remarks: from Gp-7166. Cultivated. Seed.

PI 510249 donor id: Gp-28933. origin: UNKNOWN. cultivar: RGUE FR
PI198139. remarks: from Gp-7205. Cultivated. Seed.

PI 510250 donor id: Gp-28934. origin: UNKNOWN. cultivar: RGUE FR
PI202956. remarks: From Gp-7332. Cultivated. Seed.

PI 510251 donor id: Gp-28935. origin: UNKNOWN. cultivar: RGUE FR
PI215970 (L-3). remarks: From Gp-7787. Cultivated.
Seed.

PI 510252 donor id: Gp-28936. origin: UNKNOWN. cultivar: RGUE FR
PI215970 (S-3). remarks: From Gp-7787. Cultivated.
Seed.

PI 510253 donor id: Gp-28937. origin: UNKNOWN. cultivar: RGUE FR
PI215999-2. remarks: From Gp-7826. Cultivated. Seed.

PI 510254 donor id: Gp-28938. origin: UNKNOWN. cultivar: RGUE FR
PI218194 (M-3). remarks: From Gp-7859. Cultivated.
Seed.

PI 510255 donor id: Gp-28939. origin: UNKNOWN. cultivar: RGUE FR
PI218194 (L-3). remarks: From Gp-7859. Cultivated.
Seed.

PI 510256 donor id: Gp-28941. origin: UNKNOWN. cultivar: RGUE FR
PI218194 (S-3). remarks: From Gp-7859. Cultivated.
Seed.

PI 510257 donor id: Gp-28942. origin: UNKNOWN. cultivar: RGUE FR
PI220727. remarks: From Gp-7928. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510258 donor id: Gp-28943. origin: UNKNOWN. cultivar: RGUE FR
PI220745. remarks: From Gp-7949. Cultivated. Seed.
- PI 510259 donor id: Gp-28944. origin: UNKNOWN. cultivar: RGUE FR
PI224839(S-B). remarks: From Gp-8218. Cultivated.
Seed.
- PI 510260 donor id: Gp-28945. origin: UNKNOWN. cultivar: RGUE FR
PI224839(M-B). remarks: From Gp-8218. Cultivated.
Seed.
- PI 510261 donor id: Gp-28946. origin: UNKNOWN. cultivar: RGUE FR
PI226159. remarks: From Gp-8464. Cultivated. Seed.
- PI 510262 donor id: Gp-28947. origin: UNKNOWN. cultivar: RGUE FR
PI226159. remarks: From Gp-8465. Cultivated. Seed.
- PI 510263 donor id: Gp-28948. origin: UNKNOWN. cultivar: RGUE FR
PI226165-2. remarks: From Gp-8476. Cultivated. Seed.
- PI 510264 donor id: Gp-28949. origin: UNKNOWN. cultivar: RGUE FR
LBLT CI9708. remarks: From Gp-8520. Cultivated. Seed.
- PI 510265 donor id: Gp-28950. origin: UNKNOWN. cultivar: RGUE FR
PI226207. remarks: From Gp-8566. Cultivated. Seed.
- PI 510266 donor id: Gp-28951. origin: UNKNOWN. cultivar: RGUE FR
PI226214. remarks: From Gp-8578. Cultivated. Seed.
- PI 510267 donor id: Gp-28952. origin: UNKNOWN. cultivar: RGUE FR
PI245078. remarks: From Gp-10042. Cultivated. Seed.
- PI 510268 donor id: Gp-28953. origin: UNKNOWN. cultivar: RGUE FR
PI247889. remarks: From GP-10056. Cultivated. Seed.
- PI 510269 donor id: Gp-28955. origin: UNKNOWN. cultivar: RGUE FR
PI263818. remarks: From Gp-10091. Cultivated. Seed.
- PI 510270 donor id: Gp-28956. origin: UNKNOWN. cultivar: RGUE FR
PI325910?. remarks: From Gp-10414. Cultivated. Seed.
- PI 510271 donor id: Gp-28957. origin: UNKNOWN. cultivar: RGUE FR
PI331631?. remarks: From Gp-10475. Cultivated. Seed.
- PI 510272 donor id: Gp-28958. origin: UNKNOWN. cultivar: RGUE FR
PI338075. remarks: From Gp-10547. Cultivated. Seed.
- PI 510273 donor id: Gp-28959. origin: UNKNOWN. cultivar: RGUE FR
PI338081. remarks: From Gp-10558. Cultivated. Seed.
- PI 510274 donor id: Gp-28961. origin: UNKNOWN. cultivar: RGUE FR
PI338106. remarks: From Gp-10574. Cultivated. Seed.

PI 509550 to 510520-continued

PI 510275 donor id: Gp-28962. origin: UNKNOWN. cultivar: RGUE FR
PI338107. remarks: From Gp-10576. Cultivated. Seed.

PI 510276 donor id: Gp-28966. origin: UNKNOWN. cultivar: RGUE FR
PI338927. remarks: From Gp-10694. Cultivated. Seed.

PI 510277 donor id: Gp-28967. origin: UNKNOWN. cultivar: RGUE FR
PI338933. remarks: From Gp-10698. Cultivated. Seed.

PI 510278 donor id: Gp-28968. origin: UNKNOWN. cultivar: RGUE FR
PI338966. remarks: From Gp-10711. Cultivated. Seed.

PI 510279 donor id: Gp-28969. origin: UNKNOWN. cultivar: RGUE FR
PI345802. remarks: From Gp-10802. Cultivated. Seed.

PI 510280 donor id: Gp-28970. origin: UNKNOWN. cultivar: RGUE FR
PI345823. remarks: From Gp-10829. Cultivated. Seed.

PI 510281 donor id: Gp-28971. origin: UNKNOWN. cultivar: RGUE FR
PI385462. remarks: From Gp-11217. Cultivated. Seed.

PI 510282 donor id: Gp-28972. origin: UNKNOWN. cultivar: RGUE FR
PI388924. remarks: From GP-11247. Cultivated. Seed.

PI 510283 donor id: Gp-28973. origin: UNKNOWN. cultivar: RGUE FR
PI389074. remarks: From Gp-11277. Cultivated. Seed.

PI 510284 donor id: Gp-28974. origin: UNKNOWN. cultivar: RGUE FR
PI389451. remarks: From Gp-11377. Cultivated. Seed.

PI 510285 donor id: Gp-28975. origin: UNKNOWN. cultivar: RGUE FR
PI282947. remarks: From GP-12285. Cultivated. Seed.

PI 510286 donor id: Gp-28976. origin: UNKNOWN. cultivar: RGUE FR
PI312518. remarks: From Gp-12683. Cultivated. Seed.

PI 510287 donor id: Gp-28977. origin: UNKNOWN. cultivar: RGUE FR
PI313567. remarks: From GP-12883. Cultivated. Seed.

PI 510288 donor id: Gp-28978. origin: UNKNOWN. cultivar: RGUE FR
PI321161?. remarks: From Gp-12966. Cultivated. Seed.

PI 510289 donor id: Gp-28979. origin: UNKNOWN. cultivar: RGUE FR
PI321161+. remarks: From Gp-12968. Cultivated. Seed.

PI 510290 donor id: Gp-28981. origin: UNKNOWN. cultivar: RGUE FR
PI321212. remarks: From Gp-12996. Cultivated. Seed.

PI 510291 donor id: Gp-28982. origin: UNKNOWN. cultivar: RGUE FR
PI345926. remarks: From Gp-13802. Cultivated. Seed.

PI 509550 to 510520-continued

PI 510292 donor id: Gp-28983. origin: UNKNOWN. cultivar: RGUE FR
PI373053. remarks: From Gp-14895. Cultivated. Seed.

PI 510293 donor id: Gp-28984. origin: UNKNOWN. cultivar: RGUE FR
PI373053. remarks: From Gp-14895. Cultivated. Seed.

PI 510294 donor id: Gp-28985. origin: UNKNOWN. cultivar: RGUE FR
PI373800. remarks: From Gp-15225. Cultivated. Seed.

PI 510295 donor id: Gp-28986. origin: UNKNOWN. cultivar: RGUE FR
PI374814. remarks: From Gp-15314. Cultivated. Seed.

PI 510296 donor id: Gp-28987. origin: UNKNOWN. cultivar: RGUE FR
PI385345. remarks: From Gp-15539. Cultivated. Seed.

PI 510297 donor id: Gp-28988. origin: UNKNOWN. cultivar: RGUE FR
PI385399. remarks: From Gp-15543. Cultivated. Seed.

PI 510298 donor id: Gp-28989. origin: UNKNOWN. cultivar: RGUE FR
PI385461. remarks: From Gp-15616. Cultivated. Seed.

PI 510299 donor id: Gp-28990. origin: UNKNOWN. cultivar: RGUE FR
PI389170. remarks: From Gp-16863. Cultivated. Seed.

PI 510300 donor id: Gp-28991. origin: UNKNOWN. cultivar: RGUE FR
PI389220. remarks: From Gp-16888. Cultivated. Seed.

PI 510301 donor id: Gp-28992. origin: UNKNOWN. cultivar: RGUE FR
PI389356. remarks: From Gp-17024. Cultivated. Seed.

PI 510302 donor id: Gp-28993. origin: UNKNOWN. cultivar: RGUE FR
PI389555. remarks: From Gp-17257. Cultivated. Seed.

PI 510303 donor id: Gp-28994. origin: UNKNOWN. cultivar: RGUE FR
PI391268. remarks: From Gp-18058. Cultivated. Seed.

PI 510304 donor id: Gp-28995. origin: UNKNOWN. cultivar: RGUE FR
PI391369?. remarks: From Gp-18148. Cultivated. Seed.

PI 510305 donor id: Gp-28996. origin: UNKNOWN. cultivar: RGUE FR
PI391830. remarks: from Gp-18190. Cultivated. Seed.

PI 510306 donor id: Gp-28997. origin: UNKNOWN. cultivar: RGUE FR
PI391830. remarks: From Gp-18190. Cultivated. Seed.

PI 510307 donor id: Gp-28998. origin: UNKNOWN. cultivar: RGUE FR
PI391836. remarks: From Gp-18201. Cultivated. Seed.

PI 510308 donor id: Gp-29001. origin: UNKNOWN. cultivar: RGUE FR
PI392135. remarks: From Gp-18313. Cultivated. Seed.

PI 509550 to 510520-continued

PI 510309 donor id: Gp-29002. origin: UNKNOWN. cultivar: RGUE FR
PI392146. remarks: From Gp-18316. Cultivated. Seed.

PI 510310 donor id: Gp-29003. origin: UNKNOWN. cultivar: RGUE FR
PI392207. remarks: From Gp-18371. Cultivated. Seed.

PI 510311 donor id: Gp-29004. origin: UNKNOWN. cultivar: RGUE FR
PI392211. remarks: From Gp-18376. Cultivated. Seed.

PI 510312 donor id: Gp-29005. origin: UNKNOWN. cultivar: RGUE FR
PI392214. remarks: From Gp-18382. Cultivated. Seed.

PI 510313 donor id: Gp-29006. origin: UNKNOWN. cultivar: RGUE FR
PI392551. remarks: From Gp-18439. Cultivated. Seed.

PI 510314 donor id: Gp-29007. origin: UNKNOWN. cultivar: RGUE FR
PI392558. remarks: From Gp-18449. Cultivated. Seed.

PI 510315 donor id: Gp-29008. origin: UNKNOWN. cultivar: RGUE FR
PI392559. remarks: From Gp-18450. Cultivated. Seed.

PI 510316 donor id: Gp-29009. origin: UNKNOWN. cultivar: RGUE FR
PI392572. remarks: From Gp-18470. Cultivated. Seed.

PI 510317 donor id: Gp-29010. origin: UNKNOWN. cultivar: RGUE FR
PI392576. remarks: From Gp-18479. Cultivated. Seed.

PI 510318 donor id: Gp-29011. origin: UNKNOWN. cultivar: RGUE FR
PI392706. remarks: From Gp-18629. Cultivated. Seed.

PI 510319 donor id: Gp-29013. origin: UNKNOWN. cultivar: RGUE FR
PI392755. remarks: From Gp-18699. Cultivated. Seed.

PI 510320 donor id: Gp-29014. origin: UNKNOWN. cultivar: RGUE FR
PI291649. remarks: From Gp-19117. Cultivated. Seed.

PI 510321 donor id: Gp-29015. origin: UNKNOWN. cultivar: RGUE FR
PI294360. remarks: From Gp-19150. Cultivated. Seed.

PI 510322 donor id: Gp-29016. origin: UNKNOWN. cultivar: RGUE FR
PI294360. remarks: From Gp-19150. Cultivated. Seed.

PI 510323 donor id: Gp-29017. origin: UNKNOWN. cultivar: RGUE FR
PI330640. remarks: From Gp-19186. Cultivated. Seed.

PI 510324 donor id: Gp-29018. origin: UNKNOWN. cultivar: RGUE FR
PI330640. remarks: From Gp-19186. Cultivated. Seed.

PI 510325 donor id: Gp-29019. origin: UNKNOWN. cultivar: RGUE FR
PI392756. remarks: From Gp-19399. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510326 donor id: Gp-29021. origin: UNKNOWN. cultivar: RGUE FR
PI392771. remarks: From Gp-19414. Cultivated. Seed.
- PI 510327 donor id: Gp-29022. origin: UNKNOWN. cultivar: RGUE FR
PI392799. remarks: From Gp-19452. Cultivated. Seed.
- PI 510328 donor id: Gp-29079. origin: UNKNOWN. cultivar: UNKN
LGVR FR PI388555?. other id: 82 CRO 3187. Cultivated.
Seed.
- PI 510329 donor id: Gp-29101. origin: UNKNOWN. cultivar: UNKN
LGVR (PI389071?). other id: 82 CRO 3331. Cultivated.
Seed.
- PI 510330 donor id: Gp-29154. origin: UNKNOWN. cultivar: IRR1
SELN. other id: 3 SWC 73. Cultivated. Seed.
- PI 510331 donor id: Gp-29272. origin: UNKNOWN. cultivar: TA POO
CHOZ? PI410932? 1 PLT. remarks: Single plant.
Cultivated. Seed.
- PI 510332 donor id: Gp-29279. origin: UNKNOWN. cultivar:
JINHEUNG? PI412908? 1 PLT. remarks: Single plant.
Cultivated. Seed.
- PI 510333 donor id: Gp-29284. origin: UNKNOWN. cultivar: UNKN
MGVR (PI413438 non-valid). Cultivated. Seed.
- PI 510334 donor id: Gp-29329. origin: UNKNOWN. cultivar: UNKN
MGVR (PI415309 non-valid). Cultivated. Seed.
- PI 510335 donor id: Gp-29366. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI 431158?). Cultivated. Seed.
- PI 510336 donor id: Gp-29472. origin: UNKNOWN. cultivar: UNKN
MGVR RGUE FR BAY 3. other id: 85 GP. Cultivated. Seed.
- PI 510337 donor id: Gp-29473. origin: UNKNOWN. cultivar: UNKN
MGVR RGUE. other id: STG 03-07. Cultivated. Seed.
- PI 510338 donor id: Gp-29474. origin: UNKNOWN. cultivar: LGVR
RGUE FR NTAI. other id: 85 GP. Cultivated. Seed.
- PI 510339 donor id: Gp-29475. origin: UNKNOWN. cultivar: UNKN
MGVR RGUE. other id: 85 GP. Cultivated. Seed.
- PI 510340 donor id: Gp-29476. origin: UNKNOWN. cultivar: UNKN
MGVR EY RGUE. other id: 85 GP. Cultivated. Seed.
- PI 510341 donor id: Gp-29477. origin: UNKNOWN. cultivar: UNKN
MGVR SHSTR RGUE. other id: 85 GP. Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510342 donor id: Gp-29478. origin: UNKNOWN. cultivar: UNKN
MGVR. other id: 83 DAV. Cultivated. Seed.
- PI 510343 donor id: Gp-29479. origin: UNKNOWN. cultivar: UNKN
LGVR FR PI245077. Cultivated. Seed.
- PI 510344 donor id: Gp-29481. origin: UNKNOWN. cultivar: UNKN
LGVR FR PI245078. other id: NSL 9/79. Cultivated.
Seed.
- PI 510345 donor id: Gp-29482. origin: UNKNOWN. cultivar: UNKN
LGVR FR PI245080. other id: NSL 9/79. Cultivated.
Seed.
- PI 510346 donor id: Gp-29483. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI245717). other id: NSL 9/79. Cultivated.
Seed.
- PI 510347 donor id: Gp-29484. origin: UNKNOWN. cultivar: UNKN
LGVR RGUE FR PI247871. other id: NSL 1/79. Cultivated.
Seed.
- PI 510348 donor id: Gp-29485. origin: UNKNOWN. cultivar: UNKN
MGVR FR PI247872. other id: NSL 9/79. Cultivated.
Seed.
- PI 510349 donor id: Gp-29486. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI247888?). other id: NSL 3/77. Cultivated.
Seed.
- PI 510350 donor id: Gp-29488. origin: UNKNOWN. cultivar: UNKN
MGVR FR PI260659. other id: NSL 3/77. Cultivated.
Seed.
- PI 510351 donor id: Gp-29489. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI266114). other id: 82 BMT 9247. Cultivated.
Seed.
- PI 510352 donor id: Gp-29490. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI268004). other id: 83 CRO 920. Cultivated.
Seed.
- PI 510353 donor id: Gp-29491. origin: UNKNOWN. cultivar: UNKN
MGVR FR PI271889. other id: NSL 3/77. Cultivated.
Seed.
- PI 510354 donor id: Gp-29492. origin: UNKNOWN. cultivar: UNKN
LGVR FR PI275451. other id: 83 MI-98. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 510355 donor id: Gp-29493. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI275542?). other id: 83 CRO 887. Cultivated.
Seed.
- PI 510356 donor id: Gp-29494. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI279122?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510357 donor id: Gp-29495. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI279129). other id: NSL 9/79. Cultivated.
Seed.
- PI 510358 donor id: Gp-29496. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI279129). other id: 83 CRO 752. Cultivated.
Seed.
- PI 510359 donor id: Gp-29497. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI281278). other id: 83 BMT 2172. Cultivated.
Seed.
- PI 510360 donor id: Gp-29501. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI282400). other id: 83 CRO 683. Cultivated.
Seed.
- PI 510361 donor id: Gp-29502. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI291487). other id: 83 CRO 854. Cultivated.
Seed.
- PI 510362 donor id: Gp-29503. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI291545). other id: NSL 3/77. Cultivated.
Seed.
- PI 510363 donor id: Gp-29504. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI291545). other id: 83 CRO 869. Cultivated.
Seed.
- PI 510364 donor id: Gp-29505. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI291666). other id: 83 DAV. Cultivated.
Seed.
- PI 510365 donor id: Gp-29506. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI294461). other id: NSL 9/79. Cultivated.
Seed.
- PI 510366 donor id: Gp-29508. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI297556). other id: 82 WCS 1043. Cultivated.
Seed.
- PI 510367 donor id: Gp-29509. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI312517). other id: NSL 9/79. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 510368 donor id: Gp-10036. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI242809). other id: NSL 10/79. Cultivated.
Seed.
- PI 510369 donor id: Gp-10064. origin: UNKNOWN. cultivar: UNKN
MGVR (PI248162 non-valid). other id: NSL 3/77 and 9/79.
Cultivated. Seed.
- PI 510370 donor id: Gp-10157. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI280680). other id: NSL 3/77. Cultivated.
Seed.
- PI 510371 donor id: Gp-10239. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI303643). other id: NSL 9/79. Cultivated.
Seed.
- PI 510372 donor id: Gp-10243. origin: UNKNOWN. cultivar: UNKN
LGVR (PI303646?). other id: BB50 Type, NSL 3/77.
Cultivated. Seed.
- PI 510373 donor id: Gp-10244. origin: UNKNOWN. cultivar: UNKN
LGVR (PI303646?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510374 donor id: Gp-10329. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI312710). other id: NSL 9/79. Cultivated.
Seed.
- PI 510375 donor id: Gp-10442. origin: UNKNOWN. cultivar: IRR1
MGVR (PI331511 ghl?). other id: NSL 10/79. Cultivated.
Seed.
- PI 510376 donor id: Gp-10443. origin: UNKNOWN. cultivar: IRR1
MGVR (PI331511 sth?). other id: NSL 10/79. Cultivated.
Seed.
- PI 510377 donor id: Gp-10482. origin: UNKNOWN. cultivar: IRR1
SELN (PI331647?). other id: 83 WCM-61. Cultivated.
Seed.
- PI 510378 donor id: Gp-10488. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI338048). other id: 83 WCM-167. Cultivated.
Seed.
- PI 510379 donor id: Gp-10570. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI338102?). other id: 83 WCM-265. Cultivated.
Seed.
- PI 510380 donor id: Gp-10579. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI338108?). other id: NSL 9/79. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 510381 donor id: Gp-10586. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI338123). other id: 83 WMC-307. Cultivated.
Seed.
- PI 510382 donor id: Gp-10597. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI338130?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510383 donor id: Gp-10604. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI338132?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510384 donor id: Gp-10705. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI338946). other id: 83 WCM-495. Cultivated.
Seed.
- PI 510385 donor id: Gp-10710. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI338966). other id: NSL 9/79. Cultivated.
Seed.
- PI 510386 donor id: Gp-10758. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI345781?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510387 donor id: Gp-10777. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI345793?). other id: NSL 3/77. Cultivated.
Seed.
- PI 510388 donor id: Gp-10778. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI345793). other id: NSL 3/79. Cultivated.
Seed.
- PI 510389 donor id: Gp-10779. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI345793). other id: 83 WCP-37. Cultivated.
Seed.
- PI 510390 donor id: Gp-10790. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI345797). other id: 83 WCP-45. Cultivated.
Seed.
- PI 510391 donor id: Gp-10929. origin: UNKNOWN. cultivar: IRR1
SELN (Not PI346373?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510392 donor id: Gp-11179. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI372056). other id: 83 BMT 11600.
Cultivated. Seed.
- PI 510393 donor id: Gp-11219. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI385577?). other id: NSL 6/77. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 510394 donor id: Gp-11223. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI385740?). other id: NSL 3/77. Cultivated.
Seed.
- PI 510395 donor id: Gp-11224. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI385740?). other id: NSL 6/77. Cultivated.
Seed.
- PI 510396 donor id: Gp-11532. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI389694). Cultivated. Seed.
- PI 510397 donor id: Gp-11569. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI385576?). other id: NSL 6/77. Cultivated.
Seed.
- PI 510398 donor id: Gp-11573. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI385780?). other id: NSL 3/77. Cultivated.
Seed.
- PI 510399 donor id: Gp-11579. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI385786?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510400 donor id: Gp-11605. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI385424?). other id: NSL 3/77. Cultivated.
Seed.
- PI 510401 donor id: Gp-11916. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI260661). other id: NSL 3/77. Cultivated.
Seed.
- PI 510402 donor id: Gp-11982. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI275423). other id: BMT 66-67 4744.
Cultivated. Seed.
- PI 510403 donor id: Gp-11984. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI275424). other id: NSL 3/77. Cultivated.
Seed.
- PI 510404 donor id: Gp-11991. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI275428). other id: 83 DAV. Cultivated.
Seed.
- PI 510405 donor id: Gp-12035. origin: UNKNOWN. cultivar: UNKN
MGVR (PI276896 non-valid). other id: NSL 10/79.
Cultivated. Seed.
- PI 510406 donor id: Gp-12227. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI280683?). other id: NSL 3/77 and 83 CRO 675.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510407 donor id: Gp-12229. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI280683?). other id: 83 DAV and NSL 10/79.
Cultivated. Seed.
- PI 510408 donor id: Gp-12236. origin: UNKNOWN. cultivar: UNKN
SGVR (PI281634 non-valid). other id: NSL 3/77.
Cultivated. Seed.
- PI 510409 donor id: Gp-12237. origin: UNKNOWN. cultivar: UNKN
SGVR (PI281636 non-valid). other id: NSL 3/77.
Cultivated. Seed.
- PI 510410 donor id: Gp-12261. origin: UNKNOWN. cultivar: UNKN
LGVR (PI281811 non-valid). other id: NSL 9/79.
Cultivated. Seed.
- PI 510411 donor id: Gp-12375. origin: UNKNOWN. cultivar: UNKN
MGVR (PI282943?). other id: 83 CRO 780. Cultivated.
Seed.
- PI 510412 donor id: Gp-12414. origin: UNKNOWN. cultivar: UNKN
SGVR (PI291384 non-valid). other id: NSL 9/79.
Cultivated. Seed.
- PI 510413 donor id: Gp-12473. origin: UNKNOWN. cultivar: UNKN
MGVR (PI291618 non-valid). other id: NSL 9/79.
Cultivated. Seed.
- PI 510414 donor id: Gp-12570. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI294399?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510415 donor id: Gp-12867. origin: UNKNOWN. cultivar: UNKN
MGVR (PI313079 non-valid). other id: NSL 9/79.
Cultivated. Seed.
- PI 510416 donor id: Gp-12886. origin: UNKNOWN. cultivar: UNKN
LGVR (PI314441 non-valid). other id: NSL 10/79.
Cultivated. Seed.
- PI 510417 donor id: Gp-13204. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI329238). other id: NSL 9/79. Cultivated.
Seed.
- PI 510418 donor id: Gp-13238. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI330625?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510419 donor id: Gp-13242. origin: UNKNOWN. cultivar: UNKN
MGVR (PI330649 non-valid). other id: 83 DAV.
Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510420 donor id: Gp-13630. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI340892). other id: 83 WCM 523. Cultivated.
Seed.
- PI 510421 donor id: Gp-13633. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI340893). other id: 83 WCM 525. Cultivated.
Seed.
- PI 510422 donor id: Gp-13654. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI341928). other id: 83 WCM 537. Cultivated.
Seed.
- PI 510423 donor id: Gp-13833. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI346444). other id: NSL 9/79. Cultivated.
Seed.
- PI 510424 donor id: Gp-13845. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI346447). other id: 83 WCP 229. Cultivated.
Seed.
- PI 510425 donor id: Gp-13878. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI346831). other id: 83 WCP 323. Cultivated.
Seed.
- PI 510426 donor id: Gp-14803. origin: UNKNOWN. cultivar: IRRI
SELN (PI372994). other id: NSL 3/77. Cultivated. Seed.
- PI 510427 donor id: Gp-15073. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI373203?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510428 donor id: Gp-15109. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI373339?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510429 donor id: Gp-15192. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI373689?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510430 donor id: Gp-15831. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI385591?). other id: NSL 6/77. Cultivated.
Seed.
- PI 510431 donor id: Gp-15836. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI385595?). other id: NSL 6/77. Cultivated.
Seed.
- PI 510432 donor id: Gp-15957. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI385722?). other id: NSL 6/77. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 510433 donor id: Gp-15997. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI385776?). other id: NSL 3/77. Cultivated.
Seed.
- PI 510434 donor id: Gp-16008. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI385789?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510435 donor id: Gp-16014. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI385795?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510436 donor id: Gp-16036. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI385823?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510437 donor id: Gp-16594. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI388569?). other id: 83 BMT 2399.
Cultivated. Seed.
- PI 510438 donor id: Gp-16619. origin: UNKNOWN. cultivar: UNKN
LGVR (Not IR 8, PI388583?). other id: NSL 6/77 and 1/79.
Cultivated. Seed.
- PI 510439 donor id: Gp-16708. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI388984?). other id: 83 DAV. Cultivated.
Seed.
- PI 510440 donor id: Gp-17404. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI389615?). Cultivated. Seed.
- PI 510441 donor id: Gp-17457. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI389639). Cultivated. Seed.
- PI 510442 donor id: Gp-17524. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI389710). Cultivated. Seed.
- PI 510443 donor id: Gp-17551. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI389722). other id: NSL 6/77. Cultivated.
Seed.
- PI 510444 donor id: Gp-17611. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI389797). other id: NSL 9/79, NATO-type.
Cultivated. Seed.
- PI 510445 donor id: Gp-17701. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI389883). other id: NSL 10/78. Cultivated.
Seed.
- PI 510446 donor id: Gp-17717. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI389902?). other id: NSL 9/79. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 510447 donor id: Gp-17734. origin: UNKNOWN. cultivar: UNKN
LGVR (PI389925?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510448 donor id: Gp-17735. origin: UNKNOWN. cultivar: UNKN
SGVR (PI389925?). Cultivated. Seed.
- PI 510449 donor id: Gp-17785. origin: UNKNOWN. cultivar: UNKN
SGVR (PI389997?). other id: NSL 9/79. remarks: Not
NATO. Cultivated. Seed.
- PI 510450 donor id: Gp-18068. origin: UNKNOWN. cultivar: UNKN
MGVR (PI391277?). other id: NSL 10/78 and 9/79.
Cultivated. Seed.
- PI 510451 donor id: Gp-18229. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI391343). other id: NSL 10/78. Cultivated.
Seed.
- PI 510452 donor id: Gp-18492. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI392588?). other id: NSL 10/79. Cultivated.
Seed.
- PI 510453 donor id: Gp-18556. origin: UNKNOWN. cultivar: UNKN
LGVR (PI392658?). other id: NSL 9/79. Cultivated.
Seed.
- PI 510454 donor id: Gp-18774. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI264243). other id: 83 DAV 11346.
Cultivated. Seed.
- PI 510455 donor id: Gp-18821. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI266162). other id: 83 DAV. Cultivated.
Seed.
- PI 510456 donor id: Gp-18883. origin: UNKNOWN. cultivar: UNKN
LGVR (PI274575?). Cultivated. Seed.
- PI 510457 donor id: Gp-18944. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI279993?). other id: 83 CRO 893. Cultivated.
Seed.
- PI 510458 donor id: Gp-18947. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI280667). other id: NSL 048008.01 and 83 DAV.
Cultivated. Seed.
- PI 510459 donor id: Gp-18954. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI281628). other id: 83 BMT 2299. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 510460 donor id: Gp-18964. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI281632). other id: NSL 3/77. Cultivated.
Seed.
- PI 510461 donor id: Gp-18988. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI282176). other id: NSL 9/79. Cultivated.
Seed.
- PI 510462 donor id: Gp-18991. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI282178). other id: 83 DAV. Cultivated.
Seed.
- PI 510463 donor id: Gp-19011. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI282200). other id: NSL 3/77. Cultivated.
Seed.
- PI 510464 donor id: Gp-19066. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI291478). other id: 83 DAV 11605.
Cultivated. Seed.
- PI 510465 donor id: Gp-19108. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI291639). other id: 83 DAV. Cultivated.
Seed.
- PI 510466 donor id: Gp-19122. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI291651). other id: 83 DAV. Cultivated.
Seed.
- PI 510467 donor id: Gp-19129. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI291654). other id: 83 DAV. Cultivated.
Seed.
- PI 510468 donor id: Gp-19151. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI294360). other id: NSL 9/79. Cultivated.
Seed.
- PI 510469 donor id: Gp-19165. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI294398). other id: NSL 9/79. Cultivated.
Seed.
- PI 510470 donor id: Gp-19181. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI330472). other id: 83 DAV. Cultivated.
Seed.
- PI 510471 donor id: Gp-19226. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI342638). other id: 83 WCM 555. Cultivated.
Seed.
- PI 510472 donor id: Gp-19231. origin: UNKNOWN. cultivar: UNKN
SGVR (Not PI343836). other id: 83 WCM 579. Cultivated.
Seed.

PI 509550 to 510520-continued

- PI 510473 donor id: Gp-19234. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI343837). other id: 83 WCM 581. Cultivated.
Seed.
- PI 510474 donor id: Gp-19345. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI388489). other id: NSL 10/79. Cultivated.
Seed.
- PI 510475 donor id: Gp-19347. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI388509). other id: NSL 10/79. Cultivated.
Seed.
- PI 510476 donor id: Gp-19354. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI388519). other id: NSL 6/77. Cultivated.
Seed.
- PI 510477 donor id: Gp-19362. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI388540). other id: NSL 6/77and 9/79.
Cultivated. Seed.
- PI 510478 donor id: Gp-19367. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI388555?). other id: NSL 6/77. Cultivated.
Seed.
- PI 510479 donor id: Gp-19368. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI388555?). other id: NSL 6/77. Cultivated.
Seed.
- PI 510480 donor id: Gp-20355. origin: UNKNOWN. cultivar: UNKN
LGVR (PI431303?). remarks: Not IR5. Cultivated. Seed.
- PI 510481 donor id: Gp-20357. origin: UNKNOWN. cultivar: UNKN
MGVR (PI431303?). remarks: Not IR8. Cultivated. Seed.
- PI 510482 donor id: Gp-20530. origin: UNKNOWN. cultivar: UNKN
MGVR (PI431304?). remarks: Not IR20. Cultivated. Seed.
- PI 510483 donor id: Gp-20692. origin: UNKNOWN. cultivar: UNKN
MGVR (1160?). Cultivated. Seed.
- PI 510484 donor id: Gp-20697. origin: UNKNOWN. cultivar:
CAROLINA? (2060?). remarks: From Gp-496 Source.
Cultivated. Seed.
- PI 510485 donor id: Gp-20724. origin: UNKNOWN. cultivar: UNKN
LGVR (5304?). remarks: From Gp-1768. Cultivated. Seed.
- PI 510486 donor id: Gp-20734. origin: UNKNOWN. cultivar: UNKN
LGVR (5947?). Cultivated. Seed.
- PI 510487 donor id: Gp-20735. origin: UNKNOWN. cultivar: BASMATI?
(6002?). Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510488 donor id: Gp-20745. origin: UNKNOWN. cultivar: UNKN
MGVR (7095?). Cultivated. Seed.
- PI 510489 donor id: Gp-21066. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9056?). remarks: Comp. to Gp-21065. Cultivated.
Seed.
- PI 510490 donor id: Gp-21107. origin: UNKNOWN. cultivar: RGUE FR
CI9107. Cultivated. Seed.
- PI 510491 donor id: Gp-21125. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9128). Cultivated. Seed.
- PI 510492 donor id: Gp-21126. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9128). Cultivated. Seed.
- PI 510493 donor id: Gp-21173. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9260?). remarks: Comp. to Gp-21172.
Cultivated. Seed.
- PI 510494 donor id: Gp-21190. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9283?). remarks: Comp. to Gp-2119.
Cultivated. Seed.
- PI 510495 donor id: Gp-21217. origin: UNKNOWN. cultivar: UNKN
MGVR (Not CI9471). Cultivated. Seed.
- PI 510496 donor id: Gp-21330. origin: UNKNOWN. cultivar: UNKN
LGVR (CI9662?). remarks: Single plant. Cultivated.
Seed.
- PI 510497 donor id: Gp-21418. origin: UNKNOWN. cultivar: UNKN
MGVR (CI9754?). remarks: Single plant. Cultivated.
Seed.
- PI 510498 donor id: Gp-21511. origin: UNKNOWN. cultivar: UNKN
LGVR (CI9890?). Cultivated. Seed.
- PI 510499 donor id: Gp-21668. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI12378?). Cultivated. Seed.
- PI 510500 donor id: Gp-21913. origin: UNKNOWN. cultivar: UNKN
LGVR (PI279901 non-valid). Cultivated. Seed.
- PI 510501 donor id: Gp-22228. origin: UNKNOWN. cultivar: UNKN
MGVR (PI417096 non-valid). Cultivated. Seed.
- PI 510502 donor id: Gp-22694. origin: UNKNOWN. cultivar: UNKN
MGVR (PI373252 non-valid). Cultivated. Seed.
- PI 510503 donor id: Gp-22894. origin: UNKNOWN. cultivar: UNKN
MGVR (PI439014 non-valid). Cultivated. Seed.

PI 509550 to 510520-continued

- PI 510504 donor id: Gp-23049. origin: UNKNOWN. cultivar: UNKN
MGVR (PI418827 non-valid). Cultivated. Seed.
- PI 510505 donor id: Gp-20915. origin: UNKNOWN. cultivar:
Late.ROGUE FR CI8484. Cultivated. Seed.
- PI 510506 donor id: Gp-24626. origin: UNKNOWN. cultivar: UNKN
MGVR (WC9007?). Cultivated. Seed.
- PI 510507 donor id: Gp-24636. origin: UNKNOWN. cultivar: UNKN
MGVR (PI346442?). remarks: Single Plant. Cultivated.
Seed.
- PI 510508 donor id: Gp-24645. origin: UNKNOWN. cultivar: UNKN
SGVR (Not CI9782?). Cultivated. Seed.
- PI 510509 donor id: Gp-24661. origin: UNKNOWN. cultivar: UNKN
LGVR (Not CI9497?). Cultivated. Seed.
- PI 510510 donor id: Gp-24757. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI460974). Cultivated. Seed.
- PI 510511 donor id: Gp-26227. origin: UNKNOWN. cultivar: UNKN
MGVR (Not PI401424). remarks: Comp. to GP-26226.
Cultivated. Seed.
- PI 510512 donor id: Gp-26637. origin: UNKNOWN. cultivar: UNKN
LGVR (Not PI439729?). Cultivated. Seed.
- PI 510513 donor id: Gp-28184R. origin: UNKNOWN. cultivar: EARLY
RGUE FR PI402865. remarks: RGUE from GP-28184.
Cultivated. Seed.
- PI 510514 donor id: Gp-28197R. origin: UNKNOWN. cultivar: EARLY
RGUE FR PI402888. remarks: RGUE from GP-28197.
Cultivated. Seed.
- PI 510515 donor id: Gp-28453. origin: UNKNOWN. cultivar: UNKN
MGVR (NOT ASAHI). Cultivated. Seed.
- PI 510516 donor id: Gp-28954. origin: UNKNOWN. cultivar: RGUE FR
GP-10088. Cultivated. Seed.
- PI 510517 donor id: Gp-28963. origin: UNKNOWN. cultivar: RGUE FR
GP-10598. Cultivated. Seed.
- PI 510518 donor id: Gp-28965. origin: UNKNOWN. cultivar: RGUE FR
GP-10625. Cultivated. Seed.
- PI 510519 donor id: Gp-26911. origin: UNKNOWN. cultivar: UNKN
MGVR (PI392794?). Cultivated. Seed.

PI 509550 to 510520-continued

PI 510520 **donor id:** Gp-26912. **origin:** UNKNOWN. **cultivar:** UNKN
MGVR (PI392794?). Cultivated. Seed.

PI 510521 to 510524. *Avena sativa* L. POACEAE Common oat

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional
Tecnica del Altiplano, Casilla 291, Puno, Peru. **remarks:** Local names
refer to Indian Tribal and/or Spanish (Span.) names. Received
August 29, 1985.

PI 510521 **donor id:** RB-32. **origin:** Peru. **local name:** Ancco Avena
(Aymara), Avena Blanco (Span.). **collected:** July 28,
1985. **locality:** Chatuma Community, Pomata District,
Chucuito Province, Puno Department. **latitude:** 16 deg. 17
min. S. **longitude:** 69 deg. 17 min. W. **remarks:** Stems 2m
tall. Sown in September, harvested in March or April.
Hail resistance. Used as cattle feed. Producer: Gabino
Perez Palacios. **cold tolerance:** Frost. Cultivated.
Seed.

PI 510522 **donor id:** RB-34. **origin:** Peru. **local name:** Chiara avena
(Aymara), Avena Negra (Span.). **collected:** July 28, 1985.
locality: Chatuma Community, Pomata District, Chucuito
Province, Puno Department. **latitude:** 16 deg. 17 min. S.
longitude: 69 deg. 17 min. W. **remarks:** Sown in October,
harvested in early April. Yields well on sandy soil as
well as in fertile soil. Ten kg harvested from planting
one kg. Not resistant to hail. Use as livestock feed.
Producer: Teodoro Aguiñe Larico. Seeds black. **cold
tolerance:** Frost. Cultivated. Seed.

PI 510523 **donor id:** RB-78. **origin:** Peru. **local name:** Jancco Avena
(Aymara), Avena Blanca (Span.). **collected:** July 29,
1985. **locality:** Molloko Community, Acora District, Puno
Province, Puno Department. **latitude:** 16 deg. 0 min. S.
longitude: 69 deg. 47 min. W. **elevation:** 3810m.
remarks: White with some black oats. Sown in late
October, harvested in late April, in spots protected from
frost. Producer: Anastacio Charrja. Cold tolerance.
Cultivated. Seed.

PI 510524 **donor id:** RB-81. **origin:** Peru. **local name:** Jancco Avena
(Aymara), Avena Negra (Span.). **collected:** July 29, 1985.
locality: Molloko Community, Acora District, Puno
Province, Puno Department. **latitude:** 16 deg. 0 min. S.
longitude: 69 deg. 47 min. W. **elevation:** 3810m.
remarks: Plants 1.5-2.0m tall. Sown in November,
harvested in May. Straw used as fodder. Producer:
Anastacio Charrja. Seeds black. Cold tolerance.
Cultivated. Seed.

PI 510525 to 510531. *Chenopodium pallidicaule* Aellen CHENOPODIACEAE
Canihua

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnicadel Altiplano, Puno, Peru. **remarks:** Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

PI 510525 **donor id:** RB-21. **origin:** Peru. **local name:** Chupica Canihua (Aymara), Canihua Rojo (Span.). **collected:** July 27, 1985. **locality:** Chatuma Community, Pomata Province, Puno Department. **latitude:** 16 deg. 17 min. S. **longitude:** 69 deg. 17 min. W. **remarks:** Sown late October, harvest early March. Yields 11 or more kg from planting one kg. Not hail resistant. **Producer:** Ascencio Quispe Ccota. **cold tolerance:** Frost. **Cultivated.** Seed.

PI 510526 **donor id:** RB-36. **origin:** Peru. **local name:** Ancco Ccanahua (Aymara), Canihua Blanco (Span.). **collected:** July 28, 1985. **locality:** Chatuma Community, Pomata District, Chucuito Province, Puno Department. **latitude:** 16 deg. 17 min. S. **longitude:** 69 deg. 17 min. W. **remarks:** Four to five month growing period. Claimed medicinal value for tuberculosis and altitude sickness. **Producer:** Juana Nina Huanca. **cold tolerance:** Frost. **Cultivated.** Seed.

PI 510527 **donor id:** RB-72. **origin:** Peru. **local name:** Janccoll Cayoni Caniba (Aymara), Canihua (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **elevation:** 3810m. **remarks:** Sown in November, harvested in April. **Producer:** Anastacio Charaja. **cold tolerance:** Frost. **Cultivated.** Seed.

PI 510528 **donor id:** RB-88. **origin:** Peru. **local name:** Og'e g'anua (Quechua), Canihua Plomo (Span.). **collected:** August 3, 1985. **locality:** Corisuyo Community, 32.8km from Lake Titicaca, on a cold plain, fork of mpa and Cabanillas, San Ramon Province, Puno Department. **latitude:** 16 deg. 27 min. S. **longitude:** 70 deg. 14 min. W. **remarks:** Sown late September, in furrows, harvested from March to May. Used as flour and as porridge. **cold tolerance:** Frost. **Cultivated.** Seed.

PI 510529 **donor id:** RB-89. **origin:** Peru. **local name:** Rontosa (Quechua), Canihua Huevo (Span.). **collected:** August 3, 1985. **locality:** Corisuyo Community, 32.8km from Lake Titicaca on a cold plain, fork of Rios Lampa and Cabanillas, San Ramon Province, Puno Department. **latitude:** 16 deg. 27 min. S. **longitude:** 70 deg. 14 min. W. **cold tolerance:** Very frost resistant. **Cultivated.** Seed.

PI 510525 to 510531-continued

PI 510530 donor id: RB-90. origin: Peru. local name: Q'ello Q'anua (Quechua), Yuraj Q'anua (Quechua), Canihua Amarillo y Blanca (Span.). collected: August 3, 1985. locality: Corisuyo Community, 32.8km from Lake Titicaca on a cold plain, fork of Rios Lampa and Cabanillas, San Ramon Province, Puno Department. latitude: 16 deg. 27 min. S. longitude: 70 deg. 14 min. W. remarks: Only a few crops grown with success here due to extreme weather conditions. cold tolerance: Frost. Cultivated. Seed.

PI 510531 donor id: RB-102. origin: Peru. local name: K'ahua (Quechua) Canihua var. Cunacuto Negro (span.). collected: August 10, 1985. locality: Pesqueria Community, Arapa District, Azangaro Province, Puno Department. latitude: 15 deg. 18 min. S. longitude: 70 deg. 7 min. W. elevation: 3810m. remarks: Plants 20-40cm tall. Cold tolerance. Drought tolerance. Cultivated. Seed.

PI 510532 to 510551. *Chenopodium quinoa* Willd. CHENOPODIACEAE Quinoa

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnica del Altiplano, Puno, Peru. remarks: Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

PI 510532 donor id: RB-6. origin: Peru. local name: Quinoa de Quiaca. collected: May 12, 1985. locality: Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Variety tolerant of area's 1700mm rainfall. Bitter type. Cultivated. Seed.

PI 510533 donor id: RB-19. origin: Peru. local name: K'ello Quinoa (Quechua). collected: May 12, 1985. locality: Phoquera Chico Sector, Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 30 min. S. longitude: 69 deg. 20 min. W. elevation: 3650m. remarks: Bitter type. Plants tolerant of high rainfall, dampness, cold climate with heavy cloud cover. Cultivated. Seed.

PI 510534 donor id: RB-30. origin: Peru. local name: Witolla Joira, Ccoita Joira, Mollo Joira (Aymara), Quino Mezclada Tres Variedades (Span.). collected: July 28, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Four to five months planting to maturity. Sweet in taste. Three varieties of mixed quinoa. Producer: Gabino Perez Palacios. cold tolerance: Frost. Cultivated. Seed.

PI 510532 to 510551-continued

- PI 510535 donor id: RB-33. origin: Peru. local name: Mollo Joira (Aymara), Quinoa Amarillo Mollo (Span.). collected: July 28, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Sown in October, harvest in March, in frost protected areas. Sweet in taste. Producer: Anastacio Condori Vda. de Pari. Not frost resistant. Cultivated. Seed.
- PI 510536 donor id: RB-35. origin: Peru. local name: Quinoa Negra (Span.). collected: July 28, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Early maturing variety recently brought under cultivation. Claim high yield. Bitter taste. Medicinal value for broken bones and women following birth. Producer: Juana Nina Huanca. cold tolerance: Very frost resistant. Cultivated. Seed.
- PI 510537 donor id: RB-52. origin: Peru. local name: Koito Jaira (Aymara), Quinoa Plomo or Quinoa Dulce (Span.). collected: July 28, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Sown in October, harvested in March, on hillsides and protected corners. Not hail resistant. Lead colored. Not very frost resistant. Producer: Juana Flores Mamani. Cultivated. Seed.
- PI 510538 donor id: RB-56. origin: Peru. local name: Jaro Juira (Aymara), Quinoa Amarga (Span.). collected: July 28, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Sown in September, harvested in March. Twenty kgs harvested from one sown. Bitter to taste, with a hull that is removed with stones. Producer: Aurelio Huanchi Palacios. cold tolerance: Frost resistance. Cultivated. Seed.
- PI 510539 donor id: RB-57. origin: Peru. local name: Tejjei Ancco Joira (Aymara), Quinoa Blanca de Grano Pequeno (Span.). collected: July 29, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Stems up to 1.0 m tall. Sown in October, harvested in March. Hail resistant. Producer: Juana Flores Mamani. cold tolerance: Slightly frost resistant. Cultivated. Seed.

PI 510532 to 510551-continued

- PI 510540 donor id: RB-58. origin: Peru. local name: Jacha Naka Jaro Joira (Aymara), Quinoa Amarga de Grano Grande (Span.). collected: July 29, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Sown in October, harvested in March. Small bitter husk, used as principle ingredient in a medicated plaster for broken bones. Cooked as porridge, sometimes with lime. Producer: Juana Flores Mamani. cold tolerance: Frost resistant. Cultivated. Seed.
- PI 510541 donor id: RB-59. origin: Peru, local name: Jacha Naka Jancco Jorra (Aymara), Quinoa Sajama; Quinoa Blanca de Grano Grande (Span.). collected: July 29, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Stems grow to 1.0m tall. Sown in October, harvested in March, in frost protected areas. Sweet in taste. Not frost resistant. Producer: Juana Flores Mamani. Cultivated. Seed.
- PI 510542 donor id: RB-65. origin: Peru. local name: Villa Juirra (Aymara), Quinoa Rojo (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. elevation: 3810m. remarks: Sown in November, harvested in March or April, in frost protected areas. Locale has cool summers and variable rainfall. Not frost resistant. Producer: Lorenzo Pari. Cultivated. Seed.
- PI 510543 donor id: RB-70. origin: Peru. local name: Kello Juirra (Aymara), Quinoa Amarillo (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. elevation: 3810m. remarks: Sown in November, harvested in April. Common variety to this community, which has cool summers. Not frost resistant. Producer: Lorenzo Pari. Cultivated. Seed.
- PI 510544 donor id: RB-71. origin: Peru. local name: Juirra Sajama (Aymara), Quinoa Sajama (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. elevation: 3810m. remarks: Stems 1.0 to 1.5m tall. Sown in October, harvested in April. Considered to be a good producer. Sweet in taste; can be eaten plain. Producer: Anastacio Charaja. cold tolerance: Frost resistant. Cultivated. Seed.

PI 510532 to 510551-continued

- PI 510545 donor id: RB-73. origin: Peru. local name: Ccankolla (Aymara), Quinoa Sajama Jusi (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. remarks: Stems 1.2 to 1.5m tall. Leaves large, green. Sown in November, harvested in late April. Plant in areas somewhat frost protected. cold tolerance: Some frost resistance. Cultivated. Seed.
- PI 510546 donor id: RB-80. origin: Peru. local name: Jancco Juira (Aymara), Quinoa Blanca (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. remarks: Sown in October, harvested in April. Common variety that produces well in frost protected areas. Producer: Ignacio Huarcaya. cold tolerance: Some frost resistance. Cultivated. Seed.
- PI 510547 donor id: RB-87. origin: Peru. local name: Ara Juira (Aymara), Quinoa Silvestre (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. remarks: Sown in November and December, harvest in March. Producer: Patricio Cutipa. cold tolerance: Very frost resistant. Cultivated. Seed.
- PI 510548 donor id: RB-91. origin: Peru. local name: Yulaj Q'ang'olla (Quechua), Quinoa Blanca (Span.). collected: August 3, 1985. locality: Corisuyo Community, fork of Rios Lampa and Cabanillas, San Ramon Province, Puno Department. latitude: 16 deg. 27 min. S. longitude: 70 deg. 14 min. W. remarks: Higher yield than Canihua in this area. cold tolerance: Probable cold resistance. Cultivated. Seed.
- PI 510549 donor id: RB-92. origin: Peru. local name: Yulaj K'oyto (Quechua), Quinoa Plomo (Span.). collected: August 3, 1985. locality: Corisuyo Community, fork of Rios Lampa and Cabanillas, San Ramon Province, Puno Department. latitude: 16 deg. 27 min. S. longitude: 70 deg. 14 min. W. remarks: Sown from September 15 to October 15, depending on rainfall, harvested in March and April. Used as flour and in porridge. Cultivated. Seed.

PI 510532 to 510551-continued

PI 510550 **donor id:** RB-93. **origin:** Peru. **local name:** Q'ello Quinoa (Quechua), Quinoa Amarilla (Span.). **collected:** August 3, 1985. **locality:** Corisuyo Community, fork of Rios Lampa and Cabanillas, San Ramon Province, Puno Department. **latitude:** 16 deg. 27 min. S. **longitude:** 70 deg. 14 min. W. **remarks:** Sown from September 15 to October 15, depending on rainfall, harvested in March and April. Cultivated. Seed.

PI 510551 **donor id:** RB-104. **origin:** Peru. **local name:** Quinoa (Quechua), Quinoa var. K'anko'lla Ammarilla (Span.). **collected:** August 10, 1985. **locality:** Pesqueria Community, Arapa District, Azangaro Province, Puno Department. **latitude:** 15 deg. 8 min. S. **longitude:** 70 deg. 7 min. W. **remarks:** Plants .18 to 1.5m tall. Sown in October, harvested in March and April. Produces well in dry areas; does poorly in wet years. **cold tolerance:** Low level of frost resistance. Cultivated. Seed.

PI 510552. *Cyphomandra betacea* (Cav.) Sendtner SOLANACEAE Tree tomato

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnicadel Altiplano, Puno, Peru. **remarks:** Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

donor id: RB-96. **origin:** Peru. **local name:** Sach'a Tomate (Quechua), Tomate (Span.). **collected:** August 9, 1985. **locality:** Quiaca District, Sandia Province, Puno Department. **latitude:** 14 deg. 25 min. S. **longitude:** 69 deg. 20 min. W. **elevation:** 1500-3000m. **remarks:** Tree 5m tall. Fruits year round. Grows only between Quiaca and Sandia between the elevations of 1500 to 3000m. Fruit eaten raw. Not frost resistant. **received as:** *Lycopersicon lycopersicum*. Cultivated. Seed.

PI 510553 to 510568. *Hordeum vulgare* L. POACEAE Barley

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnicadel Altiplano, Puno, Peru. **remarks:** Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

PI 510553 to 510568-continued

- PI 510553 **donor id:** RB-22. **origin:** Peru. **local name:** Doctorcito Kara Cebada (Aymara), Ccara Cebada Pelada (Span.).
collected: July 27, 1985. **locality:** Chatuma Community, Pomata Province, Puno Department,. **latitude:** 16 deg. 17 min. S. **longitude:** 69 deg. 17 min. W. **remarks:** Stems 50 to 70cm tall. Heads grow hanging down, long beards resist hail. Hulless. Sown in September. Early ripening variety. Harvest four to five months after sowing. One kg yields five to six kg. Producer: Maria Flores Mamani. Cultivated. Seed.
- PI 510554 **donor id:** RB-23. **origin:** Peru. **local name:** Carton Kara Cebada (Aymara), Cebada Pelada en Grano (Span.).
collected: July 27, 1985. **locality:** Chatuma Community, Pomata District, Chucuito Province, Puno Department.
latitude: 16 deg. 17 min. S. **longitude:** 69 deg. 17 min. W. **remarks:** Stems 1.0 to 1.4m tall. Grain regular size. Hulless. Sown in October, harvested in March or early April, in frost protected area. Three to four kg harvested form one kg. Usually eaten toasted. Producer: Maria Flores Mamani. Cultivated. Seed.
- PI 510555 **donor id:** RB-31. **origin:** Peru. **local name:** Ccara Cebada Motte (Aymara), Cebada Motte Pelada Blanco (Span.).
collected: July 28, 1985. **locality:** Chatuma Community, Pomata District, Chucuito Province, Puno Department.
latitude: 16 deg. 17 min. S. **longitude:** 69 deg. 17 min. W. **remarks:** Hulless and beardless. Sown in September, harvested in April and May. Hail resistant. Usually eaten toasted. Producer: Gabin Perez Palacios. **cold tolerance:** Frost resistant. Cultivated. Seed.
- PI 510556 **donor id:** RB-53. **origin:** Peru. **local name:** Ccell Peni Cebada (Aymara), Cebada Grano con Cascara (Span.).
collected: July 28, 1985. **locality:** Chatuma Community, Pomata District, Chucuito Province, Puno Department.
latitude: 16 deg. 17 min. S. **longitude:** 69 deg. 17 min. W. **elevation:** 3810m. **remarks:** Plants to 1.5m tall in good soil, to 1.0m in sandy soil. Sown in September, harvested in April, on cold plains, in region with cool summers. Used as feed for hogs and cattle. Producer: Ascencio Quispe Ccota. **cold tolerance:** Frost resistant. Cultivated. Seed.

PI 510553 to 510568-continued

- PI 510557 **donor id:** RB-55. **origin:** Peru. **local name:** Cheara Kara Cebada (Aymara), Cebada Pelada Negra (Span.). **collected:** July 28, 1985. **locality:** Chatuma Community, Pomata District, Chucuito Province, Puno Department. **latitude:** 16 deg. 17 min. S. **longitude:** 69 deg. 17 min. W. **elevation:** 3810m. **remarks:** Seeds purple, hullless. Sown in October, harvested in late March. Twenty kg harvested from one kg. Years with ordinary rainfall yield best. Eaten toasted. **Producer:** Domingo Gonzalo Flores. **cold tolerance:** Frost resistant. Cultivated. Seed.
- PI 510558 **donor id:** RB-64. **origin:** Peru. **local name:** Chile Miricano (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **elevation:** 3810m. **remarks:** Hullless. Sown in October, harvested in early April. Eaten toasted. **Producer:** Anastacio Charaja. **cold tolerance:** Frost resistant. Cultivated. Seed.
- PI 510559 **donor id:** RB-67. **origin:** Peru. **local name:** Say Rana (Aymara), Cebada con Espina (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **elevation:** 3810m. **remarks:** Sown in late September, harvested in April and May in areas with cool summers. Five to six kg harvested from one kg. Straw used for roof thatching. **Producer:** Pascual Charaja. **cold tolerance:** Frost resistant. Cultivated. Seed.
- PI 510560 **donor id:** RB-68. **origin:** Peru. **local name:** Soyto Chile (Aymara), Cebada Chile (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **elevation:** 3810m. **remarks:** Hullless. Sown in November, harvested first week of May, in region with cool summers. Four to five kg harvested from one. **Producer:** Juana Ccallalla. **cold tolerance:** Frost resistant. Cultivated. Seed.
- PI 510561 **donor id:** RB-74. **origin:** Peru. **local name:** Chiara Chile (Aymara), Chile Negro (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **remarks:** Seeds purple, hullless. Sown in late November, harvested in late April. Good producer. Straw used as livestock fodder and for roof thatching. **Producer:** Abraham Quispe. **cold tolerance:** Frost resistant. Cultivated. Seed.

PI 510553 to 510568-continued

- PI 510562 **donor id:** RB-75. **origin:** Peru. **local name:** Humata Chile (Aymara), Chile Borracho (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **remarks:** Stems 0.5 to 0.8m tall. Hulless. Sown in late October, early November, harvested in April, in protected spots with moisture-holding soil. Valuable in cooking because hulless. Not frost resistant. Producer: Luis Ramos. Cultivated. Seed.
- PI 510563 **donor id:** RB-84. **origin:** Peru. **local name:** Umata Cebada (Aymara), Cebada (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **remarks:** Sown in October, harvested in late March. Six kg harvested from one. Producer: Anastacio Charaja. **cold tolerance:** Frost resistant. Cultivated. Seed.
- PI 510564 **donor id:** RB-94. **origin:** Peru. **local name:** Chupaj'rano (Quechua), Cebada Blanca (Span.). **collected:** August 3, 1985. **locality:** Corisuyo Community, San Ramon Province, Puno Department. **latitude:** 16 deg. 27 min. S. **longitude:** 70 deg. 14 min. W. **remarks:** Sown from August to October, harvested in May and June. Used for consumption by humans, pigs, poultry, cattle and sheep. **cold tolerance:** Frost resistant. Cultivated. Seed.
- PI 510565 **donor id:** RB-100. **origin:** Peru. **local name:** Yanakala Cebada (Quechua), Cebada Negra (Span.). **collected:** August 10, 1985. **locality:** Pesqueria Community, Arapa District, Azangaro Province, Puno Department. **latitude:** 15 deg. 8 min. S. **longitude:** 70 deg. 7 min. W. **remarks:** Seeds mixed color, hulless. No hail resistance. Not frost resistant. Cultivated. Seed.
- PI 510566 **donor id:** RB-103. **origin:** Peru. **local name:** K'ala Cebada (Quechua), Grano Cebada var. Melon Grano (Span.). **collected:** August 10, 1985. **locality:** Pesqueria Community, Arapa District, Azangaro Province, Puno Department. **latitude:** 15 deg. 8 min. S. **longitude:** 70 deg. 7 min. W. **remarks:** Plant height 1.2 to 1.5m. Hulless. Cultivated. Seed.

PI 510553 to 510568-continued

PI 510567 donor id: RB-107. origin: Peru. local name: K'isca Ch'achara Cebada (Quechua), Charhara Cebada Peludo var. Chachara (Span.). collected: August 10, 1985. locality: Pesqueria Community, Arapa District, Azangaro Province, Puno Department. latitude: 15 deg. 8 min. S. longitude: 70 deg. 7 min. W. remarks: Plant height 1.1 - 1.4m tall. Very common variety in this community. Cultivated. Seed.

PI 510568 donor id: RB-108. origin: Peru. local name: K'isca Cebada. (Quechua), Cebada Peludo var. Grano Negroide (Span.). collected: August 10, 1985. locality: Pesqueria Community, Arapa District, Azangaro Province, Puno Department. latitude: 15 deg. 8 min. S. longitude: 70 deg. 7 min. W. remarks: Plant height 1.2 - 1.7m. Used as grain for pigs and chicken; straw used for cattle fodder and roof thatching. Not frost or drought resistant. Cultivated. Seed.

PI 510569 to 510573. *Lupinus mutabilis* Sweet FABACEAE Tarwi

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnicadel Altiplano, Puno, Peru. remarks: Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

PI 510569 donor id: RB-37. origin: Peru. local name: Tauri Chajlo (Aymara), Tarwi Mezclado (Span.). collected: July 28, 1985. locality: Field, sandy soil, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Sown in October, harvested in May. Seeds mixed color, very bitter, leachate used to treat skin parasites in animals. Producer: Eduardo Apaza Ancco. Cultivated. Seed.

PI 510570 donor id: RB-54. origin: Peru. local name: Ancco Tauri (Aymara), Tarwi Blanco (Span.). collected: July 28, 1985. locality: Hillside, sandy soil, Chatuma Community, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Sown in August, September, harvested in April, May. Seeds white, bitter, must be leached. Used as a soil improver. Not frost resistant. Producer: Benedicto Gonzalo Palacios. Cultivated. Seed.

PI 510569 to 510573-continued

PI 510571 donor id: RB-61. origin: Peru. local name: Jancco Tauri (Aymara), Tarwi Blanco (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. remarks: Plants good for nitrogen fixation. Sown in October, harvested in March or April. Producer: Emeliano Cutipa. cold tolerance: Frost resistant. Cultivated. Seed.

PI 510572 donor id: RB-77. origin: Peru. local name: Chigje Tauri (Aymara), Tarwi Bayrurit (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. elevation: 3810m. remarks: Sown in November, seed harvested in May. Grown for seed and its fertilizing qualities. Producer: Emeliano Cutipa. cold tolerance: Some frost resistance. Cultivated. Seed.

PI 510573 donor id: RB-99. origin: Peru. local name: Tarbe (Quechua), Tarwi var. Blanquesa Regular (Span.). collected: August 10, 1985. locality: Pesqueria Community, Arapa District, Azangaro Province, Puno Department. latitude: 15 deg. 8 min. S. longitude: 70 deg. 7 min. W. remarks: Sown on moist soils. Used as a soil improver. Not frost resistant. Cultivated. Seed.

PI 510574 to 510579. Phaseolus vulgaris L. FABACEAE Garden bean

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnicadel Altiplano, Puno, Peru. remarks: Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

PI 510574 donor id: RB-1. origin: Peru. local name: Puka Poroto or Quisa Acho. collected: May 12, 1985. locality: Area of 1700mm rainfall, Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Climbing type grown with corn. Seeds red to brown. Cultivated. Seed.

PI 510575 donor id: RB-8. origin: Peru. local name: Oge Hank'a or Lekecho Runtu (Quechua), Poroto (Span.). collected: May 12, 1985. locality: Area of 1700mm rainfall, Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Plants grown with corn. Cultivated. Seed.

PI 510574 to 510579-continued

- PI 510576 donor id: RB-12. origin: Peru. local name: Yuraq Hank'a (Quechua), Poroto (Span.). collected: May 12, 1985. locality: Area of 1700mm rainfall, Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Plants grown with corn. Cultivated. Seed.
- PI 510577 donor id: RB-14. origin: Peru. local name: K'ello Hank'a (Quechua), Poroto (Span.). collected: May 12, 1985. locality: Area of 1700mm rainfall, Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Plants grown with corn. Cultivated. Seed.
- PI 510578 donor id: RB-17. origin: Peru. local name: Puka Purutu (Quechua), Poroto (Span.). collected: May 12, 1985. locality: Area of 1700mm rainfall, Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. Cultivated. Seed.
- PI 510579 donor id: RB-95. origin: Peru. local name: Poroto (Quechua), Poroto para Cocinar (Span.). collected: August 9, 1985. locality: Area of 1700mm rainfall, Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Plants sown in remote area with access only by foot trail. Cultivated. Seed.

PI 510580 to 510586. *Pisum sativum* L. FABACEAE Pea

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnicadel Altiplano, Puno, Peru. remarks: Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

- PI 510580 donor id: RB-20. origin: Peru. local name: Chupica Alberja (Aymara), Alberja Rojo (Span.). collected: July 27, 1985. locality: Chatuma Community, Pomata Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Vines 1.5m long. Flowers red. Seeds red. Sown in September, harvested in April. Yields three to four kg from one. Not hail resistant. Local producer: Bravlio Gonzalo Condori. Cultivated. Seed.

PI 510580 to 510586-continued

- PI 510581 donor id: RB-27. origin: Peru. local name: Jancco Alberja (Aymara), Alberja Blanca (Span.). collected: July 28, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Vines 1.1 to 1.5m long. Sown in September, mature in six to seven months. Yield high. Plants sensitive to frost and hail. Producer: Braclio Gonzalo Condori. Seeds white. Cultivated. Seed.
- PI 510582 donor id: RB-29. origin: Peru. local name: Jancco Alberja Mestsa (Aymara), Alberja Blanco de Granos Grandes. (Span.). collected: July 28, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Flowers white. Seeds white, large. Not hail or frost resistant. Producer: Bravlio Gonzalo Flores. Cultivated. Seed.
- PI 510583 donor id: RB-62. origin: Peru. local name: Chusjna Alverja (Aymara), Alverja Verde (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. elevation: 3810m. remarks: Flowers of various colors. Seeds green. Sown in August and September, harvested in March and April. Summers cool. Producer: Dionicio Pari. Cultivated. Seed.
- PI 510584 donor id: RB-66. origin: Peru. local name: Jancco Alverja (Aymara), Alverja Blanco (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. elevation: 3810m. remarks: Seeds white. Sown in October, harvested in March. Yields four to five kg from one. Producer: Leoncio Ramos. Cultivated. Seed.
- PI 510585 donor id: RB-79. origin: Peru. local name: Murado Alverja (Aymara), Alverja Violeta (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. elevation: 3810m. remarks: Seeds violet. Sown in October, harvested in March. Summers cool with frequent droughts. Producer: Luis Ramos. cold tolerance: Frost resistant. Drought tolerance. Cultivated. Seed.

PI 510580 to 510586-continued

PI 510586 donor id: RB-106. origin: Peru. local name: Alberjas (Quechua), Alberjas var. Simple-Regular (Span.). collected: August 10, 1985. locality: Pesqueria Community, Arapa District, Azangaro Province, Puno Department. latitude: 15 deg. 8 min. S. longitude: 70 deg. 7 min. W. remarks: Stems short. Sown in October to November, harvested in April, on sandy or clay soil. Common yield is 10 kg harvested for every one planted; sometimes thirty to one. Not hail or frost resistant. Cultivated. Seed.

PI 510587 to 510589. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnicadel Altiplano, Puno, Peru. remarks: Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

PI 510587 donor id: RB-25. origin: Peru. local name: Jani Espini Trigo (Aymara), Trigo sin Espiga (Span.). locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Stems 1.0m tall. Spikes beardless. Sown in late August, early September, harvested in late April, early May. Producer: Maria Flores Mamani. Cultivated. Seed.

PI 510588 donor id: RB-63. origin: Peru. local name: Jancco Trigo (Aymara), Trigo Blanco (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. elevation: 3810m. remarks: Sown in October, harvested in April and May. Cool summers with varied rainfall, frequent droughts. Seeds white. Producer: Lius Ramos. Drought tolerance. Cultivated. Seed.

PI 510589 donor id: RB-101. origin: Peru. local name: Trigo (Quechua), Trigo var. Mentana (Span.). collected: August 10, 1985. locality: Pesqueria Community, Arapa District, Azangaro Province, Puno Department. latitude: 15 deg. 8 min. S. longitude: 70 deg. 7 min. W. elevation: 3810m. remarks: Plants grow to 1.5m tall. Yields well on sandy soil. Cultivated. Seed.

PI 510590 to 510603. *Vicia faba* L. FABACEAE Broad bean

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnica del Altiplano, Puno, Peru. **remarks:** Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

- PI 510590 **donor id:** RB-3. **origin:** Peru. **local name:** Yuraq habas. **collected:** May 12, 1985. **locality:** Terraces with sandy, loam soil, Quiaca District, Sandia Province, Puno Department. **latitude:** 14 deg. 25 min. S. **longitude:** 69 deg. 20 min. W. **elevation:** 3000m. **remarks:** Planting not fertilized. Annual rainfall 1700mm. Cultivated. Seed.
- PI 510591 **donor id:** RB-9. **origin:** Peru. **local name:** Puka Hawas (Quechua), Habas Rojas (Span.). **collected:** May 12, 1985. **locality:** Quiaca District, Sandia Province, Puno Department. **latitude:** 14 deg. 25 min. S. **longitude:** 69 deg. 20 min. W. **elevation:** 3000m. **remarks:** Grown interspersed among ten types of wild potatoes. Area has 1700mm rainfall per annum. Cultivated. Seed.
- PI 510592 **donor id:** RB-15. **origin:** Peru. **local name:** Wallwaqu (Quechua), Habas (Span.). **collected:** May 12, 1985. **locality:** Quiaca District, Sandia Province, Puno Department. **latitude:** 14 deg. 25 min. S. **longitude:** 69 deg. 20 min. W. **elevation:** 3000m. **remarks:** Grown in pure stands. Area has 1700 mm. rainfall per annum. Cultivated. Seed.
- PI 510593 **donor id:** RB-18. **origin:** Peru. **local name:** Puka Pinta (Quechua), Peruano (Quechua). **collected:** May 12, 1985. **locality:** Phoquera Chico Sector, Quaica District, Sandia Province, Puno Department. **latitude:** 14 deg. 30 min. S. **longitude:** 69 deg. 20 min. W. **elevation:** 3650m. **remarks:** Grown in pure stands. Seeds red and white. Climate cold, damp with heavy cloud cover. Cultivated. Seed.
- PI 510594 **donor id:** RB-24. **origin:** Peru. **local name:** Ochocolo Jeska Jabasa (Aymara), Habas Blanco Pequenos (Span.). **collected:** July 27, 1985. **locality:** Chatuma Community, Pomata District, Chucuito Province, Puno Department. **latitude:** 16 deg. 17 min. S. **longitude:** 69 deg. 17 min. W. **remarks:** Plants to 1.0m. Flowers rapidly, matures early. Seeds small. Sown in September, harvested in March, in frost protected areas. One kg yields six to seven. Not hail or frost resistant. Producer: Julian Condori Quispe. Cultivated. Seed.

PI 510590 to 510603-continued

- PI 510595 donor id: RB-26. origin: Peru. local name: Jancco Hosnayo Jabasa (Aymara), Habas Blanca de Granos Grandes (Span.). collected: July 27, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Stems 1.5 to 1.8m tall. Sown in early September, harvested in April in protected areas. Flowers very sensitive to hail. Medium yield, late ripener. Frost sensitive. Producer: Domingo Gonzalo Flores. Cultivated. Seed.
- PI 510596 donor id: RB-28. origin: Peru. local name: Wila Jabasa (Aymara), Habas Rojo (Span.). collected: July 28, 1985. locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Stems 1.0m tall. Sown in August or September, harvested in March or April. Flowers very sensitive to hail. Plants not frost resistant. Producer: Julian Condori. Cultivated. Seed.
- PI 510597 donor id: RB-60. origin: Peru. local name: Chasjlo Jawasa (Aymara), Habas Sortido (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. remarks: Sown in September, harvested in March or April. One kg of seed yields eight or nine kg. Not frost resistant. Producer: Dioncio Pari. Cultivated. Seed.
- PI 510598 donor id: RB-76. origin: Peru. local name: Allcca Jawasa (Aymara), Habas Peruanito (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. elevation: 3810m. remarks: Sown in August and September, harvested in March or April. Considered good producer of quality beans. Cool climate, chronic frosts. Not frost resistant. Producer: Mauro Pari. Cultivated. Seed.
- PI 510599 donor id: RB-82. origin: Peru. local name: Chimi Jawasa or Uchuela Jawasa (Aymara), Habas Blanca Chico (Span.). collected: July 29, 1985. locality: Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. remarks: Sown in October, harvested in late March and April. Seeds small, white. Producer: Luis Ramos. cold tolerance: Some frost resistance. Cultivated. Seed.

PI 510590 to 510603-continued

- PI 510600 **donor id:** RB-83. **origin:** Peru. **local name:** Usnayo Jawa (Aymara), Habas Blanca Grande (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **remarks:** Sown in September, harvested in March, in frost protected spots. Seeds large, white. Producer: Luis Ramos. Cultivated. Seed.
- PI 510601 **donor id:** RB-85. **origin:** Peru. **local name:** Vila Jawa (Aymara), Habas Rojo (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **remarks:** Sown in October, harvested in March. Seeds red. Not frost resistant. Producer: Luis Ramos. Cultivated. Seed.
- PI 510602 **donor id:** RB-86. **origin:** Peru. **local name:** Murado Jawa (Aymara), Habas Violeta (Span.). **collected:** July 29, 1985. **locality:** Molloko Community, Acora District, Puno Province, Puno Department. **latitude:** 16 deg. 0 min. S. **longitude:** 69 deg. 47 min. W. **remarks:** Flowers black and white. Seeds violet. Sown in September, harvested in March. Not frost resistant. Producer: Cornelio Ali. Cultivated. Seed.
- PI 510603 **donor id:** RB-105. **origin:** Peru. **local name:** Jahuas (Quechua), Habas (Span.). **collected:** August 10, 1985. **locality:** Pesqueria Community, Arapa District, Azangaro Province, Puno Department. **latitude:** 15 deg. 8 min. S. **longitude:** 70 deg. 7 min. W. **remarks:** Stems 80 to 100cm. Maturity early. Good producer in years with abundant rainfall. Cultivated. Seed.

PI 510604 to 510628. *Zea mays* L. POACEAE Corn

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnicadel Altiplano, Puno, Peru. **remarks:** Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.

- PI 510604 **donor id:** RB-2. **origin:** Peru. **local name:** Waka Mullu (Quechua), Maiz (Span.). **collected:** May 12, 1985. **locality:** Quiaca District, Sandia Province, Puno Department. **latitude:** 14 deg. 25 min. S. **longitude:** 69 deg. 20 min. W. **elevation:** 3000m. **remarks:** Native to locality. Annual rainfall 1700mm. Cultivated. Seed.

PI 510604 to 510628-continued

- PI 510605 donor id: RB-4. origin: Peru. local name: Puka Hank'a (Quechua), Maiz (Span.). collected: May 12, 1985. locality: Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Grown without fertilizers and insecticides. Annual rainfall 1700mm. Cultivated. Seed.
- PI 510606 donor id: RB-5. origin: Peru. local name: Yuraq Wallis (Quechua), Maiz (Span.). collected: May 12, 1985. locality: Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Grown without fertilizers or pest control. Annual rainfall 1700mm. Cultivated. Seed.
- PI 510607 donor id: RB-7. origin: Peru. local name: Paraqaya (Quechua), Maiz (Span.). collected: May 12, 1985. locality: Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Annual rainfall 1700 mm. Cultivated. Seed.
- PI 510608 donor id: RB-10. origin: Peru. local name: Wanuri (Quechua), Maiz (Span.). collected: May 12, 1985. locality: Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Annual rainfall 1700 mm. Cultivated. Seed.
- PI 510609 donor id: RB-11. origin: Peru. local name: Wallis Sara or Yuraq Wallis (Quechua). collected: May 12, 1985. locality: Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Grown in association with wild potatoes. Annual rainfall 1700mm. Cultivated. Seed.
- PI 510610 donor id: RB-13. origin: Peru. local name: Oqe Sara (Quechua), Maiz (Span.). collected: May 12, 1985. locality: Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Annual rainfall 1700mm. Cultivated. Seed.
- PI 510611 donor id: RB-16. origin: Peru. local name: Ch'eqchi Hank'a or Uspha Wallis (Quechua). collected: May 12, 1985. locality: Quiaca District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Toasted and used for human consumption. Annual rainfall 1700mm. Cultivated. Seed.

PI 510604 to 510628-continued

- PI 510612 donor id: RB-38. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Sown in August, harvested in April or May in protected areas. Not frost resistant. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510613 donor id: RB-39. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito District, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Sown in August, harvested in April or May, in protected areas. Not frost resistant. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510614 donor id: RB-40. origin: Peru. local name: Tonka (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. remarks: Seeds purple. Sown in August, harvested in April or May, in protected areas. Not frost resistant. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510615 donor id: RB-41. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3810m. remarks: Sown in August, harvested in April or May, in protected areas. Night frosts. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510616 donor id: RB-42. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3810m. remarks: Seeds black. Grown in protected areas. Summers cool. Used to prepare Chica Morada, a regional beverage. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.

PI 510604 to 510628-continued

- PI 510617 donor id: RB-43. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3810m. remarks: Seeds yellow. Grown in protected areas. Cooked and eaten off cob. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510618 donor id: RB-44. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3800m. remarks: Sown in August, harvested in April or May, in protected areas. Chronic frosts. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510619 donor id: RB-45. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3800m. remarks: Grown in protected areas. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510620 donor id: RB-46. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3810m. remarks: Sown in August, harvested in April or May in protected areas. Not frost resistant. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510621 donor id: RB-47. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3810m. remarks: Sown in August, harvested in April or May, in protected areas. Cool summers with chronic frosts. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.

PI 510604 to 510628-continued

- PI 510622 donor id: RB-48. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3810m. remarks: Sown in August, harvested in April or May in protected areas. Cool summers with chronic frosts. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510623 donor id: RB-49. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3810m. remarks: Grown in protected areas. Cool summers. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510624 donor id: RB-50. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3810m. remarks: Seeds yellow. Grown in protected areas. Cool summers with chronic frosts. Cooked and eaten off cob. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510625 donor id: RB-51. origin: Peru. local name: Tonko (Aymara), Maiz (Span.). collected: July 28, 1985. locality: Protected areas in proximity of Lake Titicaca, Chatuma Community, Pomata District, Chucuito Province, Puno Department. latitude: 16 deg. 17 min. S. longitude: 69 deg. 17 min. W. elevation: 3810m. remarks: Seeds yellow. Grown in protected areas. Cool summers. Not frost resistant. Eaten off cob. Producers: Juan Condori and Santiago Perez Perez. Cultivated. Seed.
- PI 510626 donor id: RB-69. origin: Peru. local name: Jancco Toncco (Aymara), Maiz Blanco (Span.). collected: July 29, 1985. locality: About 10km from Lake Titicaca, Molloko Community, Acora District, Puno Province, Puno Department. latitude: 16 deg. 0 min. S. longitude: 69 deg. 47 min. W. remarks: Sown in November, harvested in May, on hillside nooks with concentrated solar radiation. Not frost resistant. Producer: Marcelo Marco Zapana. Cultivated. Seed.

PI 510604 to 510628-continued

PI 510627 donor id: RB-97. origin: Peru. local name: Toana (Quechua), Maiz Rojo (Span.). collected: August 9, 1985. locality: Quaica District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Annual rainfall 1700mm. Cultivated. Seed.

PI 510628 donor id: RB-98. origin: Peru. local name: Liso Hank'a (Quechua), Maiz (Span.). collected: August 9, 1985. locality: Quaica District, Sandia Province, Puno Department. latitude: 14 deg. 25 min. S. longitude: 69 deg. 20 min. W. elevation: 3000m. remarks: Annual rainfall 1700mm. Not frost resistant. Cultivated. Seed.

PI 510629 to 510633. Cucurbita moschata (Duch.) Duch. ex Poir.
CUCURBITACEAE Summer squash

Donated by: Gentry, H.S., Desert Botanical Gardens, 37100 Los Alamos Road, Murrieta, California, United States. Received February 14, 1985.

PI 510629 donor id: 23769. origin: Mexico. local name: Chichicarjote. collected: October 30, 1984. collector: Gentry, Middleman. locality: Sandy roadside soil, 9 and 11km SW of San Bernardo, along road from Alamos. remarks: Vine, climbing (in Celtis tree). Pepos green with white stripes and blotches. Peduncle pointed. Wild. Seed.

PI 510630 donor id: 23773A. origin: Mexico. local name: Calabasa. collected: October 30, 1984. collector: Gentry, Middleman. locality: San Bernardo, Mun de Alamos. remarks: Pepos with swollen peduncle, long ovoid to thick necked, green. Old landrace cultivated around village. Landrace. Seed.

PI 510631 donor id: 23778. origin: Mexico. local name: Calabaca cehualoa. collected: October 31, 1984. collector: Gentry, Middleman. locality: Market in Navojoa. Cultivated. Seed.

PI 510632 donor id: 23782. origin: Mexico. local name: Calabaca cehualoa. collected: November 01, 1984. collector: Gentry, Middleman. locality: Market in Mazatlan. remarks: Pepos large, long, horseshoe or collar shaped. Cultivated. Seed.

PI 510629 to 510633-continued

PI 510633 donor id: 23797B. origin: Mexico. local name: Calabaza de Castillo. collected: November 03, 1984. collector: Gentry, Mittleman. locality: Market in cd. Durango. elevation: 1829m. remarks: Mixed collection with PI 510635. Cultivated. Seed.

PI 510634 to 510635. Cucurbita pepo L. CUCURBITACEAE

Donated by: Gentry, H.S., Desert Botanical Gardens, 37100 Los Alamos Road, Murrieta, California, United States. Received February 14, 1985.

PI 510634 donor id: 23796. origin: Mexico. local name: Calabaza de aqua. collected: November 03, 1984. collector: Gentry, Mittleman. locality: Market in cd. Durango. elevation: 1829m. remarks: Seeds roasted and eaten. Cultivated. Seed.

PI 510635 donor id: 23797A. origin: Mexico. local name: Calabaza de Castillo. collected: November 03, 1984. collector: Gentry, Mittleman. locality: Market in cd. Durango. elevation: 1829m. remarks: Mixed collection with PI 510633. Cultivated. Seed.

PI 510636. Phaseolus acutifolius A. Gray FABACEAE Tepary bean

Donated by: Gentry, H.S., Desert Botanical Gardens, 37100 Los Alamos Road, Murrieta, California, United States. Received February 14, 1985.

donor id: 23774. origin: Mexico. local name: Tepary. collected: November 31, 1984. collector: Gentry, Mittleman. locality: Market in Navojoa. remarks: White tepary bean, locally grown. received as: P. angustifolius var. latifolius. Cultivated. Seed.

PI 510637. Phaseolus lunatus L. FABACEAE Lima bean

Donated by: Gentry, H.S., Desert Botanical Gardens, 37100 Los Alamos Road, Murrieta, California, United States. Received February 14, 1985.

donor id: 23794. origin: Mexico. collected: November 03, 1984. collector: Gentry, Mittleman. locality: Market in cd. Durango. elevation: 1829m. Cultivated. Seed.

PI 510638 to 510649. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Gentry, H.S., Desert Botanical Gardens, 37100 Los Alamos Road, Murrieta, California, United States. Received February 14, 1985.

- PI 510638 donor id: 23775. origin: Mexico. local name: Frijol azufrado. collected: October 31, 1984. collector: Gentry, Middleman. locality: Market in Navojoa. remarks: Beans small, yellowish. Cultivated. Seed.
- PI 510639 donor id: 23776. origin: Mexico. local name: Frijol bayo. collected: October 31, 1984. collector: Gentry, Middleman. locality: Market in Navojoa. remarks: Beans pink, various sizes. Long cultivated in Sonora. Cultivated. Seed.
- PI 510640 donor id: 23779. origin: Mexico. local name: Frijol Mayocoba. collected: November 01, 1984. collector: Gentry, Middleman. locality: Market in Culiacan. remarks: Beans yellowish, pale. Locally cultivated. Cultivated. Seed.
- PI 510641 donor id: 23786. origin: Mexico. local name: Jo de cabra. collected: November 03, 1984. collector: Gentry, Middleman. locality: Market in Cd. Durango. elevation: 1829m. Cultivated. Seed.
- PI 510642 donor id: 23787. origin: Mexico. local name: Pinto mexicano. collected: November 03, 1984. collector: Gentry, Middleman. locality: Market in Cd. Durango. Cultivated. Seed.
- PI 510643 donor id: 23788. origin: Mexico. local name: Bayo blanco. collected: November 03, 1984. collector: Gentry, Middleman. locality: Market in Cd. Durango. Cultivated. Seed.
- PI 510644 donor id: 23789. origin: Mexico. local name: Bayo rata.o. collected: November 03, 1984. collector: Gentry, Middleman. locality: Market in Cd. Durango. elevation: 1829m. Cultivated. Seed.
- PI 510645 donor id: 23790. origin: Mexico. local name: Canario chiquito. collected: November 03, 1984. collector: Gentry, Middleman. locality: Market in Cd. Durango. elevation: 1829m. Cultivated. Seed.
- PI 510646 donor id: 23791. origin: Mexico. local name: Flor de Mayo. collected: November 03, 1984. collector: Gentry, Middleman. locality: Market in Cd. Durango. elevation: 1829m. Cultivated. Seed.

PI 510638 to 510649-continued

- PI 510647 donor id: 23792. origin: Mexico. local name: Frijol aluvia. collected: November 03, 1984. collector: Gentry, Mittleman. locality: Market in Cd. Durango. elevation: 1829m. Cultivated. Seed.
- PI 510648 donor id: 23793. origin: Mexico. local name: Sangre de Toro. collected: November 03, 1984. collector: Gentry, Mittleman. locality: Market in Cd. Durango. Cultivated. Seed.
- PI 510649 donor id: 23795. origin: Mexico. local name: Frijol de Queretaro. collected: November 03, 1984. collector: Gentry, Mittleman. locality: Market in Cd. Durango. remarks: Brought from state of Queretaro. Cultivated. Seed.

PI 510650 to 510652. *Urginea maritima* (L.) Baker LILIACEAE

Donated by: Gentry, H.S., Desert Botanical Gardens, 37100 Los Alamos Road, Murrieta, California, United States. Received February 14, 1985.

- PI 510650 donor id: UNKNOWN. origin: United States. collected: 1981. collector: Gentry, Mittleman. locality: Gentry Experimental Farm, Murrieta. remarks: From several plants. White squill. Cultivated. Seed.
- PI 510651 donor id: 638. origin: United States. collected: 1981. collector: Gentry, Mittleman. locality: Gentry Experimental Farm, Murrieta. remarks: Seed pollinated by pollen from other high toxicity clones. Red squill. Cultivated. Seed.
- PI 510652 donor id: 841. origin: United States. collected: 1981. collector: Gentry, Mittleman. locality: Gentry Experimental Farm, Murrieta. Cultivated. Seed.

PI 510653. *Cucumis sativus* L. CUCURBITACEAE Cucumber

Donated by: VIR, 44 Herzen Street, Leningrad, Soviet Union. Received July 10, 1987.

origin: Soviet Union. cultivar: Cakama VIR. remarks: Forms two true leaves at each node. Cultivar. Seed.

PI 510654. *Cicer pinnatifidum* Jaub. & Spach FABACEAE

Donated by: Pundir, R.P.S., ICRISAT, Patancheru P.O., Andhra Pradesh, India. **remarks:** Received through the Western Regional Plant Introduction Station, Washington State University, Pullman, Washington. Received May 18, 1987.

donor id: No. 199. origin: Turkey. Wild. Seed.

PI 510655 to 510656. *Cicer reticulatum* Ladiz. FABACEAE

Donated by: Pundir, R.P.S., ICRISAT, Patancheru P.O., Andhra Pradesh, India. **remarks:** Received through the Western Regional Plant Introduction Station, Washington State University, Pullman, Washington. Received May 18, 1987.

PI 510655 donor id: JM 2100. origin: Turkey. Wild. Seed.

PI 510656 donor id: JM 2105. origin: Turkey. Wild. Seed.

PI 510657. *Cicer yamashitae* Kitam. FABACEAE

Donated by: Pundir, R.P.S., ICRISAT, Patancheru P.O., Andhra Pradesh, India. **remarks:** Received through the Western Regional Plant Introduction Station, Washington State University, Pullman, Washington. Received May 18, 1987.

donor id: JM 2021. origin: Afghanistan. Wild. Seed.

PI 510658 to 510662. *Cicer judaicum* Boiss. FABACEAE

Donated by: Singh, K.B., ICARDA, P.O. Box 5466, Aleppo, Syria. **remarks:** Received through the Western Regional Plant Introduction Station, Washington State University, Pullman, Washington. Received May 18, 1987.

PI 510658 donor id: ILWC 4. origin: Lebanon. locality: Byblos. Wild. Seed.

PI 510659 donor id: ILWC 20. origin: Israel. locality: Kuds. Wild. Seed.

PI 510660 donor id: ILWC 29a. origin: Israel. remarks: Seeds small, light brown. Wild. Seed.

PI 510661 donor id: ILWC 29b. origin: Israel. remarks: Seeds large, dark brown. Wild. Seed.

PI 510662 donor id: ILWC 30. origin: Israel. Wild. Seed.

PI 510663. *Cicer pinnatifidum* Jaub. & Spach FABACEAE

Donated by: Singh, K.B., ICARDA, P.O. Box 5466, Aleppo, Syria.
remarks: Received through the Western Regional Plant Introduction Station, Washington State University, Pullman, Washington. Received May 18, 1987.

donor id: ILWC 19. **origin:** Turkey. **Wild. Seed.**

PI 510664. *Cicer yamashitae* Kitam. FABACEAE

Donated by: Singh, K.B., ICARDA, P.O. Box 5466, Aleppo, Syria.
remarks: Received through the Western Regional Plant Introduction Station, Washington State University, Pullman, Washington. Received May 18, 1987.

donor id: ILWC 3. **origin:** Afghanistan. **locality:** Kabul.
Wild. Seed.

PI 510665. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Merkle, O.G., USDA-ARS Southern Plains Area, Plant Science & Water Conservation Lab., P.O. Box 1029, Stillwater, Oklahoma, United States. Received July 14, 1987.

origin: United States. **pedigree:** Chinese Spring/WIS 2001//Chinese Spring. **remarks:** Similar in height, maturity and general phenotype to Chinese Spring. **insect resistance:** Tolerant to yellow sugarcane aphid. **Breeding Material. Seed.**

PI 510666. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Hurley, R.H., Lofts Seed, Inc, P.O. Box 146, Bound Brook, New Jersey, United States; and Jones, S.K., Hubbard Seed and Supply Co., P.O. Box 310, Hubbard, Oregon, United States. **remarks:** Joint contribution of Lofts Seed, Inc., Hubbard Seed and Supply Co., and the New Jersey Agr. Experiment Station. Received July 15, 1987.

donor id: BT-1. **origin:** United States. **cultivar:** Tara.
pedigree: Synthetic selected from progenies of 6 clones.
other id: CV-109. **group:** CSR-OTHER GRASSES. **other id:** PVP No. 8400085. **remarks:** Leafy turf-type of medium maturity. Plants produce persistent, moderately dense, attractive, low-growing, fine textured turf with bright, medium dark green color and improved mowing qualities. Seedling vigor excellent. Shade tolerance moderate. **heat tolerance:** Good with above average summer performance. **cold tolerance:** Above average winter hardiness. **disease resistance:** Races of crown rust, large brown patch, winter netblotch. **Perennial. Cultivar. Seed.**

PI 510667. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Smith, W.C., Department of Soil and Crop Science, Texas A & M University, College Station, Texas, United States. Received July 15, 1987.

donor id: UArk 2402. **origin:** United States. **cultivar:** Arkot 518. **pedigree:** Rex 713/Coker 304. **other id:** CV-91. **group:** CSR-COTTON. **other id:** UArk-75182402. **remarks:** Maturity earlier than other available cultivars. Open-canopy growth habit because of longer main stem internodes. Stems and leaves pubescent. Bolls and bracts large. Lint yield potential excellent. Fiber longer than other mid-south cultivars. **disease resistance:** Fusarium wilt. Cultivar. Seed.

PI 510668 to 510669. *Beta vulgaris* L. CHENOPODIACEAE Sugarbeet

Donated by: Campbell, L.G., USDA-ARS, North Dakota State University, Fargo, North Dakota, United States. **remarks:** Joint contribution of USDA-ARS and the North Dakota Agr. Experiment Station. Received July 15, 1987.

PI 510668 **donor id:** F1007. **origin:** United States. **pedigree:** Selection from population formed from interpollinating 44 low internal CO₂ individuals from 29 accessions. **other id:** GP-120. **group:** CSR-SUGARBEET. **remarks:** Multigerm, green hypocotyl type. Postharvest storage-respiration rate substantially below current commercial hybrids. Pair cross maternal parents were PIs 171515 and 176872 from Turkey. Breeding Material. Seed.

PI 510669 **donor id:** F1008. **origin:** United States. **pedigree:** Selection from population formed from interpollinating 44 low internal CO₂ individuals from 29 accessions. **other id:** GP-121. **group:** CSR-SUGARBEET. **remarks:** Multigerm, green hypocotyl type. Postharvest storage-respiration rate substantially below current commercial hybrids. Pair cross maternal parents were PIs 169016 from Turkey and 181716 from Lebanon. Breeding Material. Seed.

PI 510670. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Kenworthy, W.J., Dept. of Agronomy, University of Maryland, College Park, Maryland, United States. Received July 15, 1987.

PI 510670-continued

donor id: Md 79-5043. origin: United States. cultivar: Morgan. pedigree: Union/Miles. other id: CV-208. group: CSR-SOYBEAN. remarks: Maturity Group IV. Plants indeterminate, tawny pubescence. Flowers white. Pod walls tan. Seeds dull yellow with black hila. Cotyledons yellow. No known resistance to Phytophthora root rot or cyst nematode. disease resistance: Phomopsis seed decay, purple seed stain, and brown spot. Cultivar. Seed.

PI 510671 to 510674. Zea mays L. POACEAE Corn

Donated by: Cross, H.Z., Agronomy Department, North Dakota State University, Fargo, North Dakota, United States. Received July 15, 1987.

PI 510671 donor id: NDSCD. origin: United States. pedigree: Synthetic from one cycle of full-sib family sel. among 78 full-sib families between NDSC(FS)C1 and NDSD(FS)C1. other id: GP-161. group: CSR-MAIZE. remarks: Yellow endosperm, dent type. Grain yield 24% higher and stalk root lodging percentages equal to or better than the best parental synthetic in 1986. Maturity AES 300. Breeding population for use in short-growing season areas. Breeding Material. Seed.

PI 510672 donor id: NDSK(FS)C1. origin: United States. pedigree: Synthetic from one cycle of reciprocal full-sib selection among full-sib families of NDSA and NDSB. other id: GP-162. group: CSR-MAIZE. remarks: Similar yield and stalk lodging as parent NDSA. Significantly earlier as indicated by lower ear moisture at harvest, AES 200. Better root-loading resistance and higher test weight than NDSA. Breeding Material. Seed.

PI 510673 donor id: NDSL(FS)C1. origin: United States. pedigree: Synthetic from one cycle of reciprocal full-sib selection among full-sib families of NDSA and NDSB. other id: GP-163. group: CSR-MAIZE. remarks: Significantly higher yielding and test weight and lower root and stalk lodging percentages than its parent NDSB. Maturity AES 200. Breeding Material. Seed.

PI 510674 donor id: ND261. origin: United States. pedigree: Selected from NDSD(FS)C1. other id: PL-97. group: CSR-MAIZE. remarks: Plants medium height, early maturing. Ears below midpoint of stock. Leaves medium-long and moderately wide. Tassels medium-sized. Ears with 16-18 rows of small kernels borne on long shanks. Yellow dent type. Grain yield average. Ear moisture low at harvest. Root or stalk lodging absent. Breeding Material. Seed.

PI 510675. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Harville, B.G., Department of Agronomy, Agricultural Experiment Station, LSU Agricultural Center, Baton Rouge, Louisiana, United States. Received July 15, 1987.

donor id: LA74-4656. **origin:** United States. **cultivar:** Gregg. **pedigree:** Bragg/Pickett 71. **other id:** CV-207. **group:** CSR-SOYBEAN. **remarks:** Maturity group VII. Flowers purple. Pod walls tan. Seed coats yellow. Hila black. Pubescence tawny. Growth-type determinate. Seed oil and protein content 19.5% and 43.2%. Moderately susceptible to stem canker. **disease resistance:** Rps1c gene for resistance to *Phytophthora* rot (race 3). Bacterial pustule. **nematode resistance:** Soybean cyst (race 3) and reniform nematodes. Cultivar. Seed.

PI 510676. *Saccharum hybrid* POACEAE Sugarcane

Donated by: Tew, T.L., Genetics and Pathology Dept., Experiment Station, Hawaiian Sugar Planters' Assoc., Aiea, Hawaii, United States. Received July 15, 1987.

origin: United States. **cultivar:** H74-1715. **pedigree:** Progeny derived from a polycross with random pollination of H61-1820. **other id:** CV-73. **group:** CSR-SUGARCANE. **remarks:** Plants non-flowering, 24-36 months, high cane tonnage and average sucrose content. Rat damage less than most clones tested. Adapted to unirrigated areas with medium to high rainfall on Islands of Hawaii and Kauai. Tolerant to s-triazine herbicides. **disease resistance:** Eye spot and leaf scald. Moderate to both races of culmicolous smut present in Hawaii. Cultivar. Plant.

PI 510677. *Hordeum vulgare* L. POACEAE Barley

Donated by: Bockelman, H.E., Dept. of Plant Pathology, Montana State University, Bozeman, Montana, United States. Received July 15, 1987.

donor id: CC XLV. **origin:** United States. **pedigree:** Composite Cross-Compana (male sterile CI 5438)/15 cultivars. **other id:** GP-94. **group:** CSR-BARLEY. **remarks:** Plants two-rowed type, variable agronomically, and best adapted to semi-arid conditions. **disease resistance:** General to net blotch. Spring Annual. Breeding Material. Seed.

PI 510678. Saccharum hybrid POACEAE Sugarcane

Donated by: Kresovich, S., Texas Agricultural Experiment Station, Weslaco, Texas, United States. Received July 15, 1987.

origin: United States. **cultivar:** TCP 81-3058. **pedigree:** CP70-300/L 65-69. **other id:** CV-72. **group:** CSR-SUGARCANE. **remarks:** Plants semi-erect. Stalk diameter medium, unexposed portions become yellow-green upon exposure. Growth ring bronze, swollen. Dewlap olive green. Production 115 tons of millable stalks and 14.3 tons of recoverable sugar per hectare. High-sucrose, high-tonnage, early-season type. **disease resistance:** Culmicolous smut. Tolerant to sugarcane mosaic virus. **insect resistance:** Tolerant to sugarcane and Mexican rice borers. Cultivar. Plant.

PI 510679 to 510683. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jessen, H.J., Department of Agronomy, Iowa State University, Ames, Iowa, United States. **remarks:** Cooperative contribution by the Iowa Agriculture & Home Economics Exp. Station and the Puerto Rico Agricultural Experiment Station. Received July 15, 1987.

PI 510679 **donor id:** All. **origin:** United States. **pedigree:** Derived from S 2 plants in population AP9(1). **other id:** GP-100. **group:** CSR-SOYBEAN. **remarks:** Maturity Group O. Flowers purple. Pubescence grey. Pods brown at maturity. Seeds dull yellow with grey hila. Superior resistance to iron-deficiency chlorosis on calcareous soils. Potential use as parent stocks in breeding and genetic programs. **disease resistance:** Phytophthora rot. Breeding Material. Seed.

PI 510680 **donor id:** A12. **origin:** United States. **pedigree:** Derived from S 2 plants in population AP9(1). **other id:** GP-101. **group:** CSR-SOYBEAN. **remarks:** Maturity Group I. Flowers purple. Pubescence tawny. Pods brown at maturity. Seeds dull yellow with yellow hila. Superior resistance to iron-deficiency chlorosis on calcareous soils. Potential use as parent stocks in breeding and genetic programs. **disease resistance:** Phytophthora rot. Breeding Material. Seed.

PI 510679 to 510683-continued

PI 510681 **donor id:** A13. **origin:** United States. **pedigree:** Derived from S 2 plants in population AP9(1). **other id:** GP-102. **group:** CSR-SOYBEAN. **remarks:** Maturity Late Group I. Flowers purple. Pubescence grey. Pods brown at maturity. Seeds dull yellow with grey hila. Superior resistance to iron-deficiency chlorosis on calcareous soils. Potential use as parent stocks in breeding and genetic programs. **disease resistance:** Phytophthora rot. **Breeding Material.** Seed.

PI 510682 **donor id:** A14. **origin:** United States. **pedigree:** Derived from S 2 plants in population AP9(1). **other id:** GP-103. **group:** CSR-SOYBEAN. **remarks:** Maturity Group II. Flowers purple. Pubescence grey. Pods brown at maturity. Seeds dull yellow with imperfect black hila. Superior resistance to iron-deficiency chlorosis on calcareous soils. Potential use as parent stocks in breeding and genetic programs. **disease resistance:** Phytophthora rot. **Breeding Material.** Seed.

PI 510683 **donor id:** A15. **origin:** United States. **pedigree:** Derived from S 2 plants in population AP9(1). **other id:** GP-104. **group:** CSR-SOYBEAN. **remarks:** Group III maturity. Flowers purple. Pubescence grey. Pods brown at maturity. Seeds dull yellow with yellow hila. Superior resistance to iron-deficiency chlorosis on calcareous soils. Potential use as parent stocks in breeding and genetic programs. **disease resistance:** Phytophthora rot. **Breeding Material.** Seed.

PI 510684 to 510687. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Jones, J.E., Department of Agronomy, Louisiana Agricultural Experiment Sta., LSU Agric. Center, Baton Rouge, Louisiana, United States. Received July 15, 1987.

PI 510684 **donor id:** La. RN 4-4. **origin:** United States. **pedigree:** Bayou 7769/Deltapine 16. **other id:** GP-309. **group:** CSR-COTTON. **remarks:** Plants have good yielding ability and enhanced fiber quality. **disease resistance:** Fusarium wilt. **nematode resistance:** Reniform and root knot nematodes. **Breeding Material.** Seed.

PI 510685 **donor id:** La. RN 909. **origin:** United States. **pedigree:** Bayou 7769/Deltapine 16. **other id:** GP-310. **group:** CSR-COTTON. **remarks:** Plants have good yielding ability and enhanced fiber quality. **disease resistance:** Fusarium wilt. **nematode resistance:** Reniform and root knot nematodes. **Breeding Material.** Seed.

PI 510684 to 510687-continued

PI 510686 **donor id:** La. RN 910. **origin:** United States. **pedigree:** Bayou 7769/Deltapine 16. **other id:** GP-311. **group:** CSR-COTTON. **remarks:** Plants have good yielding ability and enhanced fiber quality. **disease resistance:** Fusarium wilt. **nematode resistance:** Reniform and root knot nematodes. **Breeding Material.** Seed.

PI 510687 **donor id:** La. RN 1032. **origin:** United States. **pedigree:** Bayou 7769/Deltapine 16. **other id:** GP-312. **group:** CSR-COTTON. **remarks:** Plants have good yielding ability and enhanced fiber quality. **disease resistance:** Fusarium wilt. **nematode resistance:** Reniform and root knot nematodes. **Breeding Material.** Seed.

PI 510688 to 510689. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Wiseman, B.R., Insect Bio. & Population Mang. Res. Lab., USDA-ARS, Tifton, Georgia, United States. Received July 15, 1987.

PI 510688 **donor id:** SGIRL-MR-3. **origin:** United States. **pedigree:** TAM 2566/PI 383856. **other id:** GP-211. **group:** CSR-SORGHUM. **remarks:** Anthesis 72 days. Plants purple, 1.25m high. Seeds reddish brown with testa. Panicles 22cm long, compact, 2-3cm exertion. Glumes black. Susceptible to anthracnose. Brown-seeded fertility restorer line for Al cytoplasm. **insect resistance:** Sorghum midge. **Breeding Material.** Seed.

PI 510689 **donor id:** SGIRL-MR-4. **origin:** United States. **pedigree:** TAM 2566/PI 383856. **other id:** GP-212. **group:** CSR-SORGHUM. **remarks:** Anthesis 74 days. Plants purple, 1.30m high. Seeds white with testa. Panicles 24cm long, semi-compact, 1-2cm exertion. Glumes black. Susceptible to anthracnose. White-seeded sterility maintainer line for Al cytoplasm. **insect resistance:** Sorghum midge. **Breeding Material.** Seed.

PI 510690 to 510692. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Woodward, W.T.W., Pioneer Hi-Bred International, Inc., P.O. Box 287, Johnston, Iowa, United States. Received July 15, 1987.

PI 510690 to 510692-continued

PI 510690 donor id: 76E-1. origin: United States. cultivar: 526. pedigree: Twenty-one clone synthetic. other id: CV-150. group: CSR-ALFALFA. remarks: Flowers mostly purple, some variegated, trace of yellow. Used for hay, haylage, dehydration and greenchop production throughout northern, central and southeastern regions of the US. Fall dormancy similar to that of Vernal. Resistance low to yellowing by potato leafhopper. disease resistance: High to bacterial wilt. Moderate to fusarium wilt. Low to phytophthora root rot. insect resistance: High to spotted alfalfa and pea aphids. Cultivar. Seed.

PI 510691 donor id: 75Y-1. origin: United States. cultivar: 532. pedigree: Nine-clone synthetic. other id: CV-151. group: CSR-ALFALFA. remarks: Flowers mostly purple, some variegated. Used for hay, haylage, dehydration and greenchop production throughout northern, central and southeastern regions of the US. Fall dormancy similar to that of Ranger. Resistance low to Phytophthora root rot and anthracnose. disease resistance: Fusarium wilt. High to bacterial wilt. insect resistance: California biotypes of pea aphid. High to spotted alfalfa aphid. Cultivar. Seed.

PI 510692 donor id: XAN21. origin: United States. cultivar: 5929. pedigree: Sixty-three clone synthetic. other id: CV-152. group: CSR-ALFALFA. remarks: Flowers various shades of purple. Used for hay, haylage, dehydration and greenchop production in the southwestern parts of US. Fall dormancy similar to CUF 101. Resistance low to bacterial wilt. disease resistance: Phytophthora root rot. High to Fusarium wilt. insect resistance: Spotted alfalfa aphid and California biotypes of pea aphid. High to blue alfalfa aphid. Cultivar. Seed.

PI 510693. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Merkle, O.G., Plant Science & Water Conservation Lab., USDA-ARS, P.O. Box 1029, Stillwater, Oklahoma, United States. Received July 15, 1987.

origin: United States. pedigree: Lathrop/Newton. remarks: Hard red type. Plants slightly variable for height and maturity. Possesses H6 gene for resistance to Great Plains biotypes A,B,E and J of Hessian fly. insect resistance: Hessian fly. Winter Annual. Breeding Material. Seed.

PI 510694 to 510700. *Triticum durum* Desf. POACEAE Durum wheat

Donated by: Cantrell, R.G., Department of Agronomy, North Dakota State University, P.O. Box 5051, Fargo, North Dakota, United States. Received July 15, 1987.

PI 510694 **donor id:** D8016. **origin:** United States. **pedigree:** D7075/Ward//Vic. **remarks:** Plants medium-tall, awned with white glumes. **received as:** *Triticum turgidum* var. durum. Spring Annual. Breeding Material. Seed.

PI 510695 **donor id:** D8019. **origin:** United States. **pedigree:** D73121/Vic. **remarks:** Plants tall, awned with white glumes. **received as:** *Triticum turgidum* var. durum. Spring Annual. Breeding Material. Seed.

PI 510696 **donor id:** D8172. **origin:** United States. **pedigree:** Rlt/Vic. **remarks:** Plants tall, awned with white glumes. **received as:** *Triticum turgidum* var. durum. Spring Annual. Breeding Material. Seed.

PI 510697 **donor id:** D8191. **origin:** United States. **pedigree:** 068111/Rg//Cby/3/Vic. **remarks:** Plants medium-tall, awned with white glumes. **received as:** *Triticum turgidum* var. durum. Spring Annual. Breeding Material. Seed.

PI 510698 **donor id:** D8193. **origin:** United States. **pedigree:** 068111/Rg//Cby/3/Vic. **remarks:** Plants medium-tall, awned with white glumes. **received as:** *Triticum turgidum* var. durum. Spring Annual. Breeding Material. Seed.

PI 510699 **donor id:** D81151. **origin:** United States. **pedigree:** D783/Vic. **remarks:** Plants tall, awned with white glumes. **received as:** *Triticum turgidum* var. durum. Spring Annual. Breeding Material. Seed.

PI 510700 **donor id:** D81154. **origin:** United States. **pedigree:** D785/Vic. **remarks:** Plants medium-tall, awned with white glumes. **received as:** *Triticum turgidum* var. durum. Spring Annual. Breeding Material. Seed.

PI 510701 to 510763. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Perez, A.T., IITA, P.O. Box 5320, Ibadan, Nigeria. **remarks:** Received through IBPGR, Rome, Italy. Received September 1980.

PI 510701 **donor id:** AP79-30. **origin:** Cameroon. **collected:** 1979. **collector:** A.T. Perez. **collector id:** AP79-30. **locality:** Market, Mora, North Province. **latitude:** 11 deg. 02 min. N. **longitude:** 14 deg. 09 min. E. Annual. Cultivated. Seed.

PI 510701 to 510763-continued

- PI 510702 donor id: AP79-31. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-31. locality: Market, Mora, North Province. latitude: 11 deg. 02 min. N. longitude: 14 deg. 09 min. E. Annual. Cultivated. Seed.
- PI 510703 donor id: AP79-45. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-45. locality: 62km SE Moulvoudaye, Maroua to Yagoua, North Province. latitude: 10 deg. 24 min. N. longitude: 14 deg. 51 min. E. Annual. Cultivated. Seed.
- PI 510704 donor id: AP79-51. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-51. locality: 62km SE Moulvoudaye, Maroua to Yagoua, North Province. latitude: 10 deg. 24 min. N. longitude: 14 deg. 51 min. E. Annual. Cultivated. Seed.
- PI 510705 donor id: AP79-67. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-67. locality: 30km NW Vele, Yagoua to Pouss, North Province. latitude: 10 deg. 31 min. N. longitude: 15 deg. 10 min. E. Annual. Cultivated. Seed.
- PI 510706 donor id: AP79-68. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-68. locality: 30km NW Vele, Yagoua to Pouss, North Province. latitude: 10 deg. 31 min. N. longitude: 15 deg. 10 min. E. Annual. Cultivated. Seed.
- PI 510707 donor id: AP79-69. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-69. locality: 30km NW Vele, Yagoua to Pouss, North Province. latitude: 10 deg. 31 min. N. longitude: 15 deg. 10 min. E. Annual. Cultivated. Seed.
- PI 510708 donor id: AP79-90. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-90. locality: Yagoua, North Province. latitude: 10 deg. 20 min. N. longitude: 15 deg. 14 min. E. Annual. Cultivated. Seed.
- PI 510709 donor id: AP79-91. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-91. locality: Yagoua, North Province. latitude: 10 deg. 20 min. N. longitude: 15 deg. 14 min. E. remarks: Seeds yellow to light brown, uniform in size. Annual. Cultivated. Seed.

PI 510701 to 510763-continued

- PI 510710 donor id: AP79-91A. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-91A. locality: Yagoua, North Province. latitude: 10 deg. 20 min. N. longitude: 15 deg. 14 min. E. remarks: Seeds tan to light brown, variable in size. Annual. Cultivated. Seed.
- PI 510711 donor id: AP79-92. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-92. locality: Yagoua, North Province. latitude: 10 deg. 20 min. N. longitude: 15 deg. 14 min. E. Annual. Cultivated. Seed.
- PI 510712 donor id: AP79-93. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-93. locality: Yagoua, North Province. latitude: 10 deg. 20 min. N. longitude: 15 deg. 14 min. E. Annual. Cultivated. Seed.
- PI 510713 donor id: AP79-94. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-94. locality: Yagoua, North Province. latitude: 10 deg. 20 min. N. longitude: 15 deg. 14 min. E. Annual. Cultivated. Seed.
- PI 510714 donor id: AP79-95. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-95. locality: Yagoua, North Province. latitude: 10 deg. 20 min. N. longitude: 15 deg. 14 min. E. Annual. Cultivated. Seed.
- PI 510715 donor id: AP79-101. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-101. locality: 23km SE Dangana, Yagoua to Guibi, North Province. latitude: 10 deg. 12 min. N. longitude: 15 deg. 20 min. E. Annual. Cultivated. Seed.
- PI 510716 donor id: AP79-123. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-123. locality: 43km SW Doukoula, Yagoua to Tchad Rep., North Province. latitude: 10 deg. 07 min. N. longitude: 14 deg. 58 min. E. Annual. Cultivated. Seed.
- PI 510717 donor id: AP79-124. origin: Cameroon. collected: 1979. collector: A.T. Perez. collector id: AP79-124. locality: 43km SW Doukoula, Yagoua to Tchad Rep., North Province. latitude: 10 deg. 07 min. N. longitude: 14 deg. 58 min. E. Annual. Cultivated. Seed.

PI 510701 to 510763-continued

- PI 510718 donor id: AP79-125. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-125.
locality: 43km SW Doukoula, Yagoua to Tchad Rep., North
Province. latitude: 10 deg. 07 min. N. longitude: 14
deg. 53 min. E. Annual. Cultivated. Seed.
- PI 510719 donor id: AP79-170. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-170.
locality: Maroua, North Province. latitude: 10 deg. 36
min. N. longitude: 14 deg. 20 min. E. Annual.
Cultivated. Seed.
- PI 510720 donor id: AP79-171. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-171.
locality: Maroua, North Province. latitude: 10 deg. 36
min. N. longitude: 14 deg. 20 min. E. Annual.
Cultivated. Seed.
- PI 510721 donor id: AP79-172. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-172.
locality: Maroua, North Province. latitude: 10 deg. 36
min. N. longitude: 14 deg. 20 min. E. Annual.
Cultivated. Seed.
- PI 510722 donor id: AP79-173. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-173.
locality: Maroua, North Province. latitude: 10 deg. 36
min. N. longitude: 14 deg. 20 min. E. Annual.
Cultivated. Seed.
- PI 510723 donor id: AP79-175. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-175.
locality: Maroua, North Province. latitude: 10 deg. 36
min. N. longitude: 14 deg. 20 min. E. Annual.
Cultivated. Seed.
- PI 510724 donor id: AP79-194. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-194.
locality: 24km NE Digir Bogo, Maroua to Pouss, North
Province. latitude: 10 deg. 43 min. N. longitude: 14
deg. 30 min. E. Annual. Cultivated. Seed.
- PI 510725 donor id: AP79-195. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-195.
locality: 24km NE Digir Bogo, Maroua to Pouss, North
Province. latitude: 10 deg. 43 min. N. longitude: 14
deg. 30 min. E. Annual. Cultivated. Seed.

PI 510701 to 510763-continued

- PI 510726 donor id: AP79-196. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-196.
locality: 24km NE Digir Bogo, Maroua to Pouss, North
Province. latitude: 10 deg. 43 min. N. longitude: 14
deg. 30 min. E. Annual. Cultivated. Seed.
- PI 510727 donor id: AP79-216. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-216.
locality: 26km NW Tchakidjebe, Maroua to Meri, North
Province. latitude: 10 deg. 44 min. N. longitude: 14
deg. 13 min. E. Annual. Cultivated. Seed.
- PI 510728 donor id: AP79-217. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-217.
locality: 26km NW Tchakidjebe, Maroua to Meri, North
Province. latitude: 10 deg. 44 min. N. longitude: 14
deg. 13 min. E. remarks: Seeds brown. Annual.
Cultivated. Seed.
- PI 510729 donor id: AP79-217A. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-217A.
locality: 26km NW Tchakidjebe, Maroua to Meri, North
Province. latitude: 10 deg. 44 min. N. longitude: 14
deg. 13 min. E. remarks: Seeds white to tan, smaller
than PI 510728. Annual. Cultivated. Seed.
- PI 510730 donor id: AP79-218. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-218.
locality: 26km NW Tchakidjebe, Maroua to Meri, North
Province. latitude: 10 deg. 44 min. N. longitude: 14
deg. 13 min. E. Annual. Cultivated. Seed.
- PI 510731 donor id: AP79-219. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-219.
locality: 26km NW Tchakidjebe, Maroua to Meri, North
Province. latitude: 10 deg. 44 min. N. longitude: 14
deg. 13 min. E. Annual. Cultivated. Seed.
- PI 510732 donor id: AP79-224. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-224.
locality: 33km NW Douvangar, Maroua to Meri, North
Province. latitude: 10 deg. 44 min. N. longitude: 14
deg. 09 min. E. Annual. Cultivated. Seed.
- PI 510733 donor id: AP79-225. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-225.
locality: 33km NW Douvangar, Maroua to Meri, North
Province. latitude: 10 deg. 44 min. N. longitude: 14
deg. 09 min. E. Annual. Cultivated. Seed.

PI 510701 to 510763-continued

- PI 510734 donor id: AP79-226. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-226.
locality: 33km NW Douvangar, Maroua to Meri, North
Province. latitude: 10 deg. 44 min. N. longitude: 14
deg. 09 min. E. Annual. Cultivated. Seed.
- PI 510735 donor id: AP79-227. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-227.
locality: 43km NW Meri, Maroua to Mokolo, North Province.
latitude: 10 deg. 47 min. N. longitude: 14 deg. 08 min.
E. Annual. Cultivated. Seed.
- PI 510736 donor id: AP79-228. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-228.
locality: 43km NW Meri, Maroua to Mokolo, North Province.
latitude: 10 deg. 47 min. N. longitude: 14 deg. 08 min.
E. Annual. Cultivated. Seed.
- PI 510737 donor id: AP79-229. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-229.
locality: 43km NW Meri, Maroua to Mokolo, North Province.
latitude: 10 deg. 47 min. N. longitude: 14 deg. 08 min.
E. Annual. Cultivated. Seed.
- PI 510738 donor id: AP79-269. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-269.
locality: Mokolo, North Province. latitude: 10 deg. 45
min. N. longitude: 13 deg. 49 min. E. Annual.
Cultivated. Seed.
- PI 510739 donor id: AP79-270. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-270.
locality: Mokolo, North Province. latitude: 10 deg. 45
min. N. longitude: 13 deg. 49 min. E. Annual.
Cultivated. Seed.
- PI 510740 donor id: AP79-359. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-359.
locality: 47km SW Roumsiki, Mokolo to Bourrah, North
Province. latitude: 10 deg. 31 min. N. longitude: 13
deg. 35 min. E. Annual. Cultivated. Seed.
- PI 510741 donor id: AP79-360. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-360.
locality: 47km SW Roumsiki, Mokolo to Bourrah, North
Province. latitude: 10 deg. 31 min. N. longitude: 13
deg. 35 min. E. Annual. Cultivated. Seed.

PI 510701 to 510763-continued

- PI 510742 donor id: AP79-361. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-361.
locality: 47km SW Roumsiki, Mokolo to Bourrah, North
Province. latitude: 10 deg. 31 min. N. longitude: 13
deg. 35 min. E. Annual. Cultivated. Seed.
- PI 510743 donor id: AP79-382. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-382.
locality: 18km SE Sanguere, Garoua to Ngaoundere, North
Province. latitude: 09 deg. 13 min. N. longitude: 13
deg. 29 min. E. Annual. Cultivated. Seed.
- PI 510744 donor id: AP79-430. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-430.
locality: 18km Gaschigo, Garoua to Mayo Oulo, North
Province. latitude: 09 deg. 26 min. N. longitude: 13
deg. 22 min. E. Annual. Cultivated. Seed.
- PI 510745 donor id: AP79-556. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-556.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.
- PI 510746 donor id: AP79-557. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-557.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.
- PI 510747 donor id: AP79-558. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-558.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.
- PI 510748 donor id: AP79-559. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-559.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.
- PI 510749 donor id: AP79-560. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-560.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.

PI 510701 to 510763-continued

- PI 510750 donor id: AP79-561. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-561.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.
- PI 510751 donor id: AP79-562. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-562.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.
- PI 510752 donor id: AP79-563. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-563.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.
- PI 510753 donor id: AP79-564. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-564.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.
- PI 510754 donor id: AP79-565. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-565.
locality: 46km NE Badjouma, Garoua to Guider, North
Province. latitude: 09 deg. 28 min. N. longitude: 13
deg. 38 min. E. Annual. Cultivated. Seed.
- PI 510755 donor id: AP79-596. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-596.
locality: 68km SE Lagdo, Garoua to Benoue River, North
Province. latitude: 09 deg. 02 min. N. longitude: 13
deg. 42 min. E. Annual. Cultivated. Seed.
- PI 510756 donor id: AP79-597. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-597.
locality: 68km SE Lagdo, Garoua to Benoue River, North
Province. latitude: 09 deg. 02 min. N. longitude: 13
deg. 42 min. E. Annual. Cultivated. Seed.
- PI 510757 donor id: AP79-714. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-714.
locality: 46km Tchollire, Mboukma to Laboun, North
Province. latitude: 08 deg. 24 min. N. longitude: 14
deg. 10 min. E. Annual. Cultivated. Seed.

PI 510701 to 510763-continued

- PI 510758 donor id: AP79-715. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-715.
locality: 46km Tchollire, Mboukma to Laboun, North
Province. latitude: 08 deg. 24 min. N. longitude: 14
deg. 10 min. E. remarks: Seeds yellow. Annual.
Cultivated. Seed.
- PI 510759 donor id: AP79-726. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-726.
locality: 46km Tchollire, Mboukma to Laboun, North
Province. latitude: 08 deg. 24 min. N. longitude: 14
deg. 10 min. E. Annual. Cultivated. Seed.
- PI 510760 donor id: AP79-735. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-735.
locality: 46km Tchollire, Mboukma to Laboun, North
Province. latitude: 08 deg. 24 min. N. longitude: 14
deg. 10 min. E. Annual. Cultivated. Seed.
- PI 510761 donor id: AP79-777. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-777.
locality: 43km Likok, Ngaoundere to Tibati, North
Province. latitude: 07 deg. 15 min. N. longitude: 13
deg. 15 min. E. Annual. Cultivated. Seed.
- PI 510762 donor id: AP79-778. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-778.
locality: 43km Likok, Ngaoundere to Tibati, North
Province. latitude: 07 deg. 15 min. N. longitude: 13
deg. 15 min. E. Annual. Cultivated. Seed.
- PI 510763 donor id: AP79-779. origin: Cameroon. collected: 1979.
collector: A.T. Perez. collector id: AP79-779.
locality: 43km Likok, Ngaoundere to Tibati, North
Province. latitude: 07 deg. 15 min. N. longitude: 13
deg. 15 min. E. remarks: Seeds white. Annual.
Cultivated. Seed.

Scientific Name Cross Reference

Adesmia sp.	508559-508560	508299, 508431-508440
Aegilops cylindrica	506231	Carthamus tinctorius 506426-
Aegilops tauschii	506403,	506427, 508098
	508260-508264	Carum carvi 506438
Agropyron sp.	508561	Chenopodium pallidicaule
Agrostis tenuis	509437	510525-510531
Allium cepa	506429-506431	Chenopodium quinoa 510532-
Allium fistulosum	508401-	510551
	508406	Chloris distichophylla 508573-
Allium porrum	506432	508574
Allium schoenoprasum	508407	Chloris pycnothrix 508575
Andropogon lateralis		Chloris sp. 508576-508581
var. incanus	508562	Cicer arietinum 508096-508097,
Andropogon sp.	508563	508290, 509117-509314
Anethum graveolens	506433	Cicer judaicum 510658-510662
Apium graveolens var. rapaceum	506434	Cicer pinnatifidum 510654,
Arachis hypogaea	506237, 506419,	510663
	509536-509541	Cicer reticulatum 510655-
Arachis hypogaea		510656
subsp. fastigiata	508278	Cicer yamashitae 510657, 510664
Arrhenatherum elatius	509438	Citrullus lanatus 506439,
Atriplex canescens	508551	507858-507869, 508441-508446
Avena nuda	508536	Citrus medica 508265
Avena sativa	506242, 508099-	Crotalaria sp. 508582-508583
	508100, 508301, 508537-508550,	Cucumis melo 507870-507873,
	509115-509116, 510521-510524	508447-508452
Axonopus ramboi	508564	Cucumis melo var. ameri 506457
Axonopus sp.	508565-508566	Cucumis melo var. duripulposus
Beta vulgaris	506238, 510668-	506458-506460
	510669	Cucumis metuliferus 508300
Beta vulgaris var. conditiva		Cucumis sativus 506440, 506461-
	507848-507851	506465, 507874-507876, 508453-
Bouteloua curtipendula	508567	508460, 510653
Bouteloua sp.	508568-508569	Cucumis sativus
Brachiaria sp.	508570-508572	var. xishuangbannanesis
Brassica chinensis	508408-	509549
	508409	Cucurbita maxima 507877-507884,
Brassica napus var. napus		508461-508462
	509072-509073	Cucurbita moschata 506441,
Brassica oleracea var. botrytis		508463-508466, 510629-510633
	507852, 508410	Cucurbita pepo 506442-506443,
Brassica oleracea var. capitata		506466-506468, 507885-507888,
	507853-507854, 508411-508413	508467-508469, 510634-510635
Brassica oleracea		Cynosurus cristatus 509441
var. gemmifera	507855	Cyphomandra betacea 510552
Brassica oleracea var. sabauda		Dactylis glomerata 509047-
	507856-507857	509049
Brassica pekinensis	508414-	Daucus carota 506444-506445
	508430	Daucus carota subsp. sativus
Briza media	509439	508470-508474, 509433-509435
Calamagrostis arundinacea		Deschampsia caespitosa 509442
	509440	Desmodium incanum 508584-
Calendula sp.	506435	508587
Capsicum annuum	506436-506437,	Desmodium sp. 508588-508596
		Desmodium uncinatum 508597

<i>Digitaria californica</i>	508598	<i>Lens culinaris</i>	508090-508091, 509315-509432
<i>Digitaria sp.</i>	508599-508601	<i>Levisticum officinale</i>	506446
<i>Elymus caninus</i>	509443	<i>Linum usitatissimum</i>	509504- 509512
<i>Elytrigia spicata</i>	506259- 506285	<i>Lolium perenne</i>	506241, 508095, 509070, 510666
<i>Eragrostis sp.</i>	508602	<i>Lotus corniculatus</i>	508611- 508612
<i>Festuca arundinacea</i>	508284, 508603-508605, 509069	<i>Luffa acutangula</i>	506447
<i>Genista sagittalis</i>	509444	<i>Lupinus albus</i>	508101
<i>Glycine arenaria</i>	509448-509450	<i>Lupinus multiflorus</i>	508613
<i>Glycine argyrea</i>	509451-509452	<i>Lupinus mutabilis</i>	510569- 510573
<i>Glycine canescens</i>	509453- 509459	<i>Lupinus sp.</i>	508614
<i>Glycine clandestina</i>	509460- 509470	<i>Lycopersicon esculentum</i>	506448, 508291-508292, 508480-508482
<i>Glycine curvata</i>	509471	<i>Macroptilium atropurpureum</i>	508619
<i>Glycine cyrtoloba</i>	509472	<i>Malus domestica</i>	506358-506361
<i>Glycine falcata</i>	509473-509475	<i>Medicago sativa</i>	506239-506240, 507932, 508085-508086, 508279- 508282, 509067, 509534-509535, 510690-510692
<i>Glycine latifolia</i>	509476- 509480	<i>Melilotus alba</i>	508615-508618
<i>Glycine latrobeana</i>	509481- 509482	<i>Nicotiana tabacum</i>	509533
<i>Glycine max</i>	506417, 506420, 506471-507579, 507670-507718, 508083-508084, 508266-508269, 508293-508298, 509044, 509074- 509113, 509547-509548, 510670, 510675, 510679-510683	<i>Oryza sativa</i>	506219-506230, 506428, 508250-508254, 509518, 509550-510520
<i>Glycine microphylla</i>	509483- 509489	<i>Panicum maximum</i>	508620
<i>Glycine soja</i>	507580-507669, 507719-507847, 508060-508069	<i>Panicum miliaceum</i>	507933
<i>Glycine tabacina</i>	509490-509498	<i>Papaver somniferum</i>	507934- 507961
<i>Glycine tomentella</i>	509499- 509502	<i>Paspalidium paludivagum</i>	508621- 508622
<i>Gossypium hirsutum</i>	506414- 506416, 506453-506456, 509545, 510667, 510684-510687	<i>Paspalum alnum</i>	508623-508634
<i>Guizotia abyssinica</i>	508070- 508081, 509436	<i>Paspalum brunneum</i>	508635- 508637
<i>Helianthus annuus</i>	507889- 507925, 509051-509066	<i>Paspalum ceresia</i>	508638-508642
<i>Hemarthria altissima</i>	508285, 508606-508607	<i>Paspalum commune</i>	508643-508653
<i>Hemarthria sp.</i>	508608	<i>Paspalum compressum</i>	508654- 508659
<i>Holcus lanatus</i>	509445	<i>Paspalum conjugatum</i>	508660- 508663
<i>Hordeum vulgare</i>	506286-506343, 506421-506425, 508104, 508552, 510553-510568, 510677	<i>Paspalum cordatum</i>	508664
<i>Indigofera sp.</i>	508609-508610	<i>Paspalum cromyrorhizon</i>	508665- 508667
<i>Ipomoea batatas</i>	508505-508534	<i>Paspalum denticulatum</i>	508668
<i>Lablab purpureus</i>	509114	<i>Paspalum dilatatum</i>	508669- 508727
<i>Lactuca saligna</i>	509519-509525	<i>Paspalum distichum</i>	508728- 508737
<i>Lactuca sativa</i>	507926-507930, 508475-508479	<i>Paspalum erianthum</i>	508738
<i>Lactuca serriola</i>	509526-509532	<i>Paspalum exaltatum</i>	508739- 508746
<i>Lathyrus sativus</i>	506418, 507931	<i>Paspalum guaraniticum</i>	508747
		<i>Paspalum guenoarum</i>	508748-

508760		506450,507962-507967	
<i>Paspalum haumanii</i>	508761	<i>Phalaris</i> sp.	509026-509027
<i>Paspalum humboldtianum</i>	508762-508764	<i>Phaseolus acutifolius</i>	510636
<i>Paspalum hybrid</i>	508765-508767	<i>Phaseolus coccineus</i>	507968-507971
<i>Paspalum inaequivalve</i>	508768-508769	<i>Phaseolus lunatus</i>	510637
<i>Paspalum indecorum</i>	508770-508771	<i>Phaseolus vulgaris</i>	507972-508052,510574-510579,510638-510649
<i>Paspalum ionanthum</i>	508772-508774	<i>Pisum sativum</i>	508092-508093,510580-510586
<i>Paspalum juergensii</i>	508775-508787	<i>Poa pratensis</i>	508094,508283,509068
<i>Paspalum lividum</i>	508788-508791	<i>Poiretia latifolia</i>	509028
<i>Paspalum maculosum</i>	508792	<i>Prunus armeniaca</i>	506389-506392
<i>Paspalum malacophyllum</i>	508793-508806	<i>Prunus avium</i>	506393
<i>Paspalum mandiocanum</i>	508807-508815	<i>Prunus cerasus</i>	506394
<i>Paspalum mandiocanum</i> var. <i>subaequiglume</i>	508816	<i>Prunus domestica</i>	506395-506396
<i>Paspalum modestum</i>	508817	<i>Prunus dulcis</i>	506399-506401
<i>Paspalum nicorae</i>	508818-508821	<i>Prunus persica</i>	506397
<i>Paspalum notatum</i>	508822-508845	<i>Prunus salicina</i>	506398
<i>Paspalum notatum</i> var. <i>saurae</i>	508846-508852	<i>Pyrus communis</i>	506370-506388
<i>Paspalum ovale</i>	508853-508854	<i>Pyrus hondoensis</i>	506363-506369
<i>Paspalum paniculatum</i>	508855	<i>Pyrus</i> sp.	506362
<i>Paspalum pauciciliatum</i>	508856-508857	<i>Raphanus sativus</i>	506451-506452,508053,508483-508501
<i>Paspalum paucifolium</i>	508858	<i>Ricinus communis</i>	508054
<i>Paspalum pilosum</i>	508859	<i>Rottboellia seloana</i>	509029
<i>Paspalum plicatulum</i>	508860-508936	<i>Saccharum hybrid</i>	510676,510678
<i>Paspalum proliferum</i>	508937-508938	<i>Salix fluviatilis</i>	508553
<i>Paspalum pumilum</i>	508939-508941	<i>Salix hookeriana</i>	508554
<i>Paspalum quadrifarium</i>	508942-508947	<i>Salix lasiandra</i>	508555
<i>Paspalum ramboi</i>	508948	<i>Salix rigida</i>	508556
<i>Paspalum remotum</i>	508949-508954	<i>Salix scouleriana</i>	508557
<i>Paspalum rufum</i>	508955	<i>Salix sitchensis</i>	508558
<i>Paspalum simplex</i>	508956-508961	<i>Senna occidentalis</i>	509030
<i>Paspalum</i> sp.	508962-508994	<i>Setaria italica</i>	508055
<i>Paspalum stellatum</i>	508995	<i>Setaria</i> sp.	509031-509036
<i>Paspalum unispicatum</i>	508996-509007	<i>Solanum melongena</i>	508502-508503
<i>Paspalum urvillei</i>	509008-509017	<i>Sorghum bicolor</i>	506232-506236,508056-508058,508105-508248,508361-508383,509050,509071,510688-510689,510701-510763
<i>Paspalum vaginatum</i>	509018-509023	<i>Sorghum</i> sp.	509513-509514
<i>Paspalum yaguaronense</i>	509024-509025	<i>Sorghum stipoideum</i>	509515
<i>Pennisetum glaucum</i>	508273-508274,508302-508350	<i>Spinacia oleracea</i>	508504
<i>Pennisetum</i> sp.	508351-508360	<i>Stenotaphrum secundatum</i>	509037-509039
<i>Petroselinum crispum</i>	506449-	<i>Trifolium campestre</i>	509040
		<i>Trifolium hybridum</i>	509446
		<i>Trifolium montanum</i>	509447
		<i>Trifolium pratense</i>	508087,508272,509546
		<i>Trifolium riograndense</i>	509041-509042
		<i>Triticum aestivum</i>	506344-

506345,506349-506357,506402,
 506404-506409,508082,508088-
 508089,508102,508271,508275-
 508276,508286-508289,508384-
 508400,509503,510587-510589,
 510665,510693
 Triticum durum 506469-506470,
 508103,510694-510700
 Urginea maritima 510650-510652
 Vernonia galamensis
 subsp. galamensis 508535
 Vicia faba 510590-510603
 Vicia sativa 506346
 Vicia villosa 508059
 X Triticosecale sp. 508249
 Zea mays 506243-506258,506347-
 506348,506410-506413,508255-
 508259,508270,508277,509045-
 509046,509542-509544,510604-
 510628,510671-510674
 Zea mays subsp. mexicana
 509516-509517
 Zornia diphylla 509043

Common Name Cross Reference

Alfalfa	506239-506240, 507932, 508085-508086, 508279-508282, 509067, 509534-509535, 510690- 510692	510653	
Almond	506399-506401	Dallisgrass	508669-508727
Alsike clover	509446	Dill	506433
Apple	506358-506361	Durum wheat	506469-506470, 508103, 510694-510700
Apricot	506389-506392	Eggplant	508502-508503
Bahiagrass	508822-508845	Flax	509504-509512
Barley	506286-506343, 506421- 506425, 508104, 508552, 510553- 510568, 510677	Foxtail millet	508055
Beardless wheatgrass	506259- 506285	Garden bean	507972-508052, 510574-510579, 510638-510649
Birdsfoot trefoil	508611- 508612	Grass pea	507931
Broad bean	510590-510603	Guineagrass	508620
Brussel sprouts	507855	Hairy vetch	508059
Cabbage	507853-507854, 508411- 508413	Hyacinth bean	509114
Canihua	510525-510531	Japanese plum	506398
Cantaloupe	508447-508452	Jointed goatgrass	506231
Caraway	506438	Kentucky bluegrass	508094, 508283, 509068
Carrot	506444-506445, 508470- 508474, 509433-509435	Knotgrass	508728-508737
Castorbean	508054	Large hop clover	509040
Cauliflower	508410	Leek	506432
Celeriac	506434	Lentil	508090-508091, 509315- 509432
Chickpea	508096-508097, 508290, 509117-509314	Lettuce	507926-507930, 508475- 508479
Chinese cabbage	508414-508430	Lima bean	510637
Chives	508407	Limpograss	508285, 508606- 508607
Citron	508265	Lovage	506446
Coffee senna	509030	Muskmelon	507870-507873
Colonial bentgrass	509437	Naked oat	508536
Common oat	506242, 508099- 508100, 508301, 508537-508550, 509115-509116, 510521-510524	Niger	508070-508081, 509436
Common vetch	506346	Onion	506429-506431
Common wheat	506344-506345, 506349-506357, 506402, 506404- 506409, 508082, 508088-508089, 508102, 508271, 508275-508276, 508286-508289, 508384-508400, 509503, 510587-510589, 510665, 510693	Opium poppy	507934-507961
Corn	506243-506258, 506347- 506348, 506410-506413, 508255- 508259, 508270, 508277, 509542, 510604-510628, 510671-510674	Orchardgrass	509047-509049
Cotton	506414-506416, 506453- 506456, 509545, 510667, 510684- 510687	Pacific willow	508555
Cucumber	506440, 506461-506465, 507874-507876, 508453-508460,	Pakchoi	508408-508409
		Parsley	506449-506450, 507962- 507967
		Pea	506418, 508092-508093, 510580-510586
		Peach	506397
		Peanut	506237, 506419, 508278, 509536-509541
		Pear	506370-506388
		Pearl millet	508273-508274, 508302-508350
		Pepper	506436-506437, 508299, 508431-508440
		Perennial quaking grass	509439
		Perennial ryegrass	506241, 508095, 509070, 510666
		Plum	506395-506396
		Popcorn	509543-509544
		Proso millet	507933

Pumpkin 507885-507888
 Quinoa 510532-510551
 Radish 506451-506452, 508053,
 508483-508501
 Rape 509072-509073
 Red clover 508087, 508272,
 509546
 Rice 506219-506230, 506428,
 508250-508254, 509518, 509550-
 510520
 Safflower 506426-506427, 508098
 Savoy cabbage 507856-507857
 Scarlet runner bean 507968-
 507971
 Side-oats grama 508567
 Singkwa towelgourd 506447
 Siratro 508619
 Sitka willow 508558
 Sorghum 506232-506236, 508056-
 508058, 508105-508248, 508361-
 508383, 509050, 509071, 510688-
 510689, 510701-510763
 Sour cherry 506394
 Soybean 506417, 506420, 506471-
 507579, 507670-507718, 508083-
 508084, 508266-508269, 508293-
 508298, 509044, 509074-509113,
 509547-509548, 510670, 510675,
 510679-510683
 Spanish tickclover 508597
 Spinach 508504
 Squash 506442-506443, 506466-
 506468
 Sugarbeet 506238, 510668-510669
 Sugarcane 510676, 510678
 Summer squash 506441, 510629-
 510633
 Sunflower 507889-507925, 509051-
 509066
 Sweet cherry 506393
 Sweet corn 509045-509046
 Sweet potato 508505-508534
 Tall fescue 508284, 508603-
 508605, 509069
 Tall oatgrass 509438
 Tarwi 510569-510573
 Teosinte 509516-509517
 Tepary bean 510636
 Tobacco 509533
 Tomato 506448, 508291-508292,
 508480-508482
 Tree tomato 510552
 Triticale 508249
 Tufted hairgrass 509442
 Vaseygrass 509008-509017
 Velvetgrass 509445
 Watermelon 506439, 507858-

507869, 508441-508446
 Welsh onion 508401-508406
 White lupine 508101
 White sweetclover 508615-
 508618
 Wild soybean 507580-507669,
 507719-507748, 507750-507765,
 507767-507847, 508060-508069
 Winter squash 507877-507884,
 508461-508466
 wild soybean 507749, 507766

Acronyms

For space conservation and consistency in identifying locations, the following acronyms have been used in Plant Inventory No. 196:

- APHIS - Animal and Plant Health Inspection Service (U.S. Department of Agriculture)
- ARS - Agricultural Research Service (U.S. Department of Agriculture)
- CIMMYT - Centro Internacional de Mejoramiento de Maiz y Trigo (Mexico)
- CIP - Centro Internacional de la Papa
- CSIRO - Commonwealth Scientific and Industrial Research Organization (Australia).
- FAO - Food and Agriculture Organization of the United Nations
- IBPGR - International Board for Plant Genetic Resources
- ICRISAT - International Crops Research Institute for Semi-Arid Tropics (India)
- IITA - International Institute of Tropical Agriculture (Nigeria)
- SCS - Soil Conservation Service (U.S. Department of Agriculture)
- USAID - U.S. Agency for International Development
- VIR - N.I. Vavilov Institute of Plant Industry (USSR)