Plant Inventory
No. 196, Part I

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

George A. White, agriculturalist
Plant Introduction Office
Beltsville Agricultural Research Center
Beltsville, MD 20705
and
Vicki Binstock, faculty research assistant
Department of Botany, University of Maryland
College Park, MD 20742

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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.


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 gold hull color and lower yield. 
Potentially useful as a marker gene source (gh) for 

PI 506225  donor id: 78Y81. origin: United States. pedigree: 
Selection from M2 generation of irradiated CII1032. 
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 

PI 506226  donor id: 78Y454. origin: United States. pedigree: 
Selection from M2 generation of irradiated CII1032. 
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 

PI 506227  donor id: 78Y455. origin: United States. pedigree: 
Selection from M2 generation of irradiated CII1032. 
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 

PI 506228  donor id: 78Y458. origin: United States. pedigree: 
Selection from M2 generation of irradiated CII1032. 
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 

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: 
group: CSR-RICE. remarks: Potentially useful as a water 
weevil tolerant donor in breeding programs. disease 
resistance: Tolerant to rice water weevil (Lissorhoptrus 
PI 506231. Aegilops cylindrica Host  POACEAE  Jointed goatgrass


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 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), multigermin, 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 Pythtophthora 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.


PI 506243 to 506258. Zea mays L. POACEAE Corn


PI 506249  donor id: 9030.  origin: Nigeria.  cultivar: Tzi 12.  

pedigree: N28/TZSR. other id: PL-87. group: CSR-MAIZE.

PI 506252 donor id: 9091. origin: Nigeria. cultivar: Tzi 17.


PI 506256 donor id: 9490. origin: Nigeria. cultivar: Tzi 27.

PI 506243 to 506258-continued

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  
milestone 5, S of Colton, Whitman County, Washington.  
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 milestone  
2, S of Colton, Whitman County, Washington.  elevation:  
400m.  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 506286 to 506343. Hordeum vulgare L. POACEAE Barley


PI 506300  donor id: NRPB 81-1032. origin: United Kingdom.  

PI 506301  donor id: NRPB 81-1096. origin: United Kingdom.  


PI 506286 to 506343-continued


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 to 506345-continued


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.


PI 506347 to 506348. Zea mays L. POACEAE Corn

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


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  donor id: WA6916.  origin: United States.  
pedigree: Potam 70/Fielder.  

PI 506350  donor id: WA7075.  origin: United States.  
cultivar: Spillman.  
pedigree: K73579/Borah.  

PI 506351  donor id: WA7175.  origin: United States.  

PI 506352  donor id: WA7183.  origin: United States.  
cultivar: Wakanz.  
pedigree: K78504/K79129-33//K7806645.  

PI 506353  donor id: WA7186.  origin: United States.  
pedigree: K74135/Potam 70.  

PI 506354  donor id: WA7187.  origin: United States.  
cultivar: Wadual.  
pedigree: K74182/Potam 70.  


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 506362. Pyrus sp. ROSACEAE

Donated by: Department of Horticulture, Beijing Agricultural University, Beijing, People's Republic of China. Received November 1986.
PI 506362-continued


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 506370. Pyrus communis L. ROSACEAE Pear

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

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 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.  
cultivar: Takisha.  
other id: Q-20838.  
locality: Serbia.  

PI 506387  
origin: Yugoslavia.  
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: Oranjevo Krasny/Rubinowy.  
other id: Q-20803.  
Breeding Material. Cutting.

PI 506390  
donor id: No. 232/I-1.  
origin: Poland.  
other id: Q-20805.  
Breeding Material. Cutting.

PI 506391  
donor id: No. 234/I-3.  
origin: Poland.  
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


PI 506395 to 506396. Prunus domestica L. ROSACEAE Plum


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 flesched, 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.


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 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 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.

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

**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

**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

**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

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 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.


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


PI 506422 to 506425. Hordeum vulgare L. POACEAE Barley


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 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


PI 506429 to 506431. Allium cepa L. LILIACEAE Onion


PI 506432. Allium porrum L. LILIACEAE Leek


PI 506433. Anethum graveolens L. APIACEAE Dill


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 annum 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


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


PI 506442 to 506443. Cucurbita pepo L. CUCURBITACEAE Squash


PI 506444 to 506445. Daucus carota L. APIACEAE Carrot


PI 506446. Levisticum officinale Koch APIACEAE Lovage

PI 506446-continued


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


PI 506448. Lycopersicon esculentum Miller SOLANACEAE Tomato


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


PI 506451 to 506452. Raphanus sativus L. BRASSICACEAE Radish


PI 506451 to 506452-continued


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 506457. Cucumis melo var. ameri Pangalo CUCURBITACEAE

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


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

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


PI 506458 to 506460-continued


PI 506461 to 506465. Cucumis sativus L.  CUCURBITACEAE  Cucumber

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


PI 506466 to 506468. Cucurbita pepo L.  CUCURBITACEAE  Squash

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


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 to 506470-continued**

PI 506470  

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


PI 506471  

PI 506472  

PI 506473  

PI 506474  

PI 506475  

PI 506476  

PI 506477  

PI 506478  

PI 506479  

PI 506480  

PI 506481  
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 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 506471 to 507579-continued


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.


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PI 506471 to 507579-continued


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PI 506471 to 507579-continued


**PI 506471 to 507579-continued**

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- **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.
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- **Cultivar. Seed.**

**PI 507180**
- **donor id:** NIAR 040419.
- **origin:** Japan.
- **cultivar:** Rikuu 21.
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- **Cultivar. Seed.**

**PI 507181**
- **donor id:** NIAR 020649.
- **origin:** Japan.
- **cultivar:** Rikuu 21.
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**PI 507182**
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- **origin:** Japan.
- **cultivar:** Rikuu 22.
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**PI 507183**
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PI 507297 donor id: NIAR 040467. origin: Japan. cultivar: Shuutai

PI 507298 donor id: NIAR 030103. origin: Japan. cultivar:

PI 507299 donor id: NIAR 040843. origin: Japan. cultivar: Souga

PI 507300 donor id: NIAR 040278. origin: Japan. cultivar: Soukou

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:

PI 507303 donor id: NIAR 030082. origin: Japan. cultivar: Sumoto

PI 507304 donor id: NIAR 020612. origin: Japan. cultivar:

PI 507305 donor id: NIAR 020446. origin: Japan. cultivar:

PI 507306 donor id: NIAR 040524. origin: Japan. cultivar:

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

PI 507309 donor id: NIAR 020712. origin: Japan. cultivar:

PI 507310 donor id: NIAR 040576. origin: Japan. cultivar: Taiyuu

PI 507311 donor id: NIAR 040866. origin: Japan. cultivar:

PI 507312 donor id: NIAR 040867. origin: Japan. cultivar:
PI 507346  donor id: NIAR 020483.  origin: Japan.  cultivar: Teramae

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

PI 507349  donor id: NIAR 010037.  origin: Japan.  cultivar: Toiku

PI 507350  donor id: NIAR 010063.  origin: Japan.  cultivar: Toiku

PI 507351  donor id: NIAR 010064.  origin: Japan.  cultivar: Toiku

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PI 507354  donor id: NIAR 010080.  origin: Japan.  cultivar: Tokei

PI 507355  donor id: NIAR 010062.  origin: Japan.  cultivar: Tokei

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

PI 507359  donor id: NIAR 041076.  origin: Japan.  cultivar: Tone

PI 507360  donor id: NIAR 030096.  origin: Japan.  cultivar: Toufu

PI 507361  donor id: NIAR 020653.  origin: Japan.  cultivar: Touhoku

PI 507362  donor id: NIAR 020706.  origin: Japan.  cultivar: Touhoku


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PI 507399  donor id: NIAR 040888. origin: Japan. cultivar: Tousan

PI 507400  donor id: NIAR 040889. origin: Japan. cultivar: Tousan

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

PI 507404  donor id: NIAR 040893. origin: Japan. cultivar: Tousan

PI 507405  donor id: NIAR 040894. origin: Japan. cultivar: Tousan

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

PI 507408  donor id: NIAR 041048. origin: Japan. cultivar: Tousan

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

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.


98


PI 507449

PI 507450

PI 507451

PI 507452

PI 507453

PI 507454

PI 507455

PI 507456

PI 507457

PI 507458

PI 507459

PI 507460

PI 507461

PI 507462

PI 507463

PI 507464


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


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


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PI 507581 to 507669-continued


PI 507581 to 507669-continued


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collector: Hikuno. collector id: Hikuno-5. locality: 

collector: Hikuno. collector id: Hikuno-6. locality: 
Ono, Hyogo Ken. Wild. Seed.

collector: Hikuno. collector id: Hikuno-8. locality: 

collector: Hikuno. collector id: Hikuno-9. locality: 
Yoka, Hyogo Ken. Wild. Seed.

collector: Hikuno. collector id: Hikuno-10. locality: 


collector: Utsunomiya. collector id: Utsunomiya-3. 

collector: Koyama. locality: Ishii, Tokushima Ken. 
Wild. Seed.

collector: Sadahira. locality: Fukuyama, Hiroshima Ken. 
Wild. Seed.

Seed.

collector: Mizushima. collector id: Mizushima-1. 
locality: Kume, Okayama Ken. Wild. Seed.

collector: Mizushima. collector id: Mizushima-2. 
locality: Kume, Okayama Ken. Wild. Seed.


PI 507664 donor id: NIAR 090006. origin: Japan. collected: 1983.


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


PI 507670 to 507718—continued


PI 507692  donor id: VIR 7213.  origin: Soviet Union.  

PI 507693  donor id: VIR 6234.  origin: Soviet Union.  

PI 507694  donor id: VIR 7107.  origin: Soviet Union.  

PI 507695  donor id: VIR 7214.  origin: Soviet Union.  

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

PI 507697  donor id: VIR 6414.  origin: Soviet Union.  

PI 507698  donor id: VIR 9053.  origin: Soviet Union.  

PI 507699  donor id: VIR 8537.  origin: Soviet Union.  

PI 507700  donor id: VIR 8776.  origin: Soviet Union.  

PI 507701  donor id: VIR 6928.  origin: Soviet Union.  

PI 507702  donor id: VIR 7396.  origin: Soviet Union.  

PI 507703  donor id: VIR 8778.  origin: Soviet Union.  

PI 507704  donor id: VIR 6405.  origin: Soviet Union.  

PI 507705  donor id: VIR 7391.  origin: Soviet Union.  

PI 507706  donor id: VIR 6926.  origin: Soviet Union.  

PI 507707  donor id: VIR 6917.  origin: Soviet Union.  

PI 507708  donor id: VIR 6179.  origin: Soviet Union.  

PI 507719 to 507747. Glycine soja Siebold & Zucc. FABACEAE Wild soybean


PI 507719 to 507847—continued

PI 507724  donor id: VIR 8803.  origin: Soviet Union.  other id: L

PI 507725  donor id: VIR 8804.  origin: Soviet Union.  other id: L
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PI 507726  donor id: VIR 8429.  origin: Soviet Union.  other id: L

PI 507727  donor id: VIR 8430.  origin: Soviet Union.  other id: L
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PI 507728  donor id: VIR 8805.  origin: Soviet Union.  other id: L

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PI 507730  donor id: VIR 8433.  origin: Soviet Union.  other id: L
30. Wild. Seed.

PI 507731  donor id: VIR 8806.  origin: Soviet Union.  other id: L
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PI 507732  donor id: VIR 8435.  origin: Soviet Union.  other id: L

PI 507733  donor id: VIR 8807.  origin: Soviet Union.  other id: L
43. Wild. Seed.

PI 507734  donor id: VIR 8808.  origin: Soviet Union.  other id: L

PI 507735  donor id: VIR 8809.  origin: Soviet Union.  other id: L

PI 507736  donor id: VIR 8436.  origin: Soviet Union.  other id: L
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PI 507737  donor id: VIR 8810.  origin: Soviet Union.  other id: L

PI 507738  donor id: VIR 8437.  origin: Soviet Union.  other id: L
67. Wild. Seed.

PI 507739  donor id: VIR 8811.  origin: Soviet Union.  other id: L
70. Wild. Seed.

PI 507740  donor id: VIR 8812.  origin: Soviet Union.  other id: L
74. Wild. Seed.
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PI 507762  donor id: VIR 8456. origin: Soviet Union. other id: L
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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

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

PI 507766  donor id: VIR 8458. origin: Soviet Union. other id: L
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PI 507767  donor id: VIR 8819. origin: Soviet Union. other id: L

PI 507768  donor id: VIR 8459. origin: Soviet Union. other id: L

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

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304. Wild. Seed.

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312. Wild. Seed. 

313. Wild. Seed. 

315. Wild. Seed. 


318. Wild. Seed. 

402. Wild. Seed. 

404. Wild. Seed. 

411. Wild. Seed. 

412. Wild. Seed. 

413. Wild. Seed. 

414. Wild. Seed. 

415. Wild. Seed. 

418. Wild. Seed. 

430. Wild. Seed. 


458. Wild. Seed. 

459. Wild. Seed.


PI 507719 to 507847-continued

PI 507809  donor id: VIR 8843. origin: Soviet Union. other id: L
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PI 507810  donor id: VIR 8844. origin: Soviet Union. other id: L
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PI 507815  donor id: VIR 8910. origin: Soviet Union. other id: L
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PI 507816  donor id: VIR 8911. origin: Soviet Union. other id: L
559. Wild. Seed.

PI 507817  donor id: VIR 8912. origin: Soviet Union. other id: L
560. Wild. Seed.

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561. Wild. Seed.

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562. Wild. Seed.

PI 507820  donor id: VIR 8915. origin: Soviet Union. other id: L
563. Wild. Seed.

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564. Wild. Seed.

PI 507822  donor id: VIR 9050. origin: Soviet Union. other id: L

PI 507823  donor id: VIR 9039. origin: Soviet Union. other id: L
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PI 507824  donor id: VIR 8917. origin: Soviet Union. other id: L
567. Wild. Seed.

PI 507825  donor id: VIR 9040. origin: Soviet Union. other id: L
568. Wild. Seed.
PI 507719 to 507847—continued

PI 507719 to 507847-continued


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


PI 507852. Brassica oleracea var. botrytis L. BRASSICACEAE


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


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PI 507854

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

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**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.

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**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.

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**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**

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**PI 507861**

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

**PI 507862**

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**PI 507863**

**donor id:** 2700786.  **origin:** Hungary.  **collected:** 1983.  **locality:** Nyiregyhaza.  Landrace.  Seed.
PI 507858 to 507869-continued


PI 507870 to 507873. Cucumis melo L. CUCURBITACEAE Muskmelon


PI 507874 to 507876. Cucumis sativus L. CUCURBITACEAE Cucumber


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


PI 507885 to 507888. Cucurbita pepo L. CUCURBITACEAE Pumpkin


PI 507889 to 507925. Helianthus annuus L. ASTERACEAE Sunflower

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PI 507889 to 507925-continued


PI 50789 to 507925-continued


PI 507926 to 507930. Lactuca sativa L. ASTERACEAE Lettuce


PI 507931. Lathyrus sativus L. FABACEAE Grass pea


PI 507932. Medicago sativa L. FABACEAE Alfalfa


PI 507933. Panicum miliaceum L. POACEAE Proso millet


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


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


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PI 507962 to 507967-continued


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


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


PI 507972 to 508052-continued


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PI 508053. Raphanus sativus L. BRASSICACEAE Radish


PI 508054. Ricinus communis L. EUPHORBIACEAE Castorbean


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


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


PI 508059. Vicia villosa Roth FABACEAE Hairy vetch


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


PI 508060 to 508069—continued

<table>
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<tr>
<th>PI</th>
<th>donor id</th>
<th>origin</th>
<th>collected</th>
<th>locality</th>
<th>type</th>
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PI 508070 to 508081. Guizotia abyssinica (L. f.) Cass. ASTERACEAE

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

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<tr>
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<th>origin</th>
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</table>
PI 508070 to 508081-continued


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.


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 to 508084-continued

PI 508084  
origin: United States.  
cultivar: Sibley.  
pedigree:  
M68-256/Hodgson.  
other id: CV-201.  
group: CSR-SOYBEAN.  
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

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  

PI 508089  

PI 508090 to 508091. Lens culinaris Medikus  
FABACEAE Lentil


PI 508090  

PI 508091  

PI 508092 to 508093. Pisum sativum L.  
FABACEAE Pea

PI 508092 to 508093-continued


PI 508094.  Poa pratensis L.  POACEAE Kentucky bluegrass


PI 508095.  Lolium perenne L.  POACEAE Perennial ryegrass

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


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.

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.  

**PI 508100**  
**donor id:** SD810109.  
**origin:** United States.  
**pedigree:** Moore/Dal/Nodaway 70.  

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.  
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.


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.


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 to 508248-continued


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<th>Elevation</th>
<th>Remarks</th>
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PI 508105 to 508248-continued


PI 508249. X Triticosecale sp.  POACEAE Triticale


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 to 508254-continued


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.


PI 508256 to 508259. Zea mays L. POACEAE Corn

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


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. Phytophthera rot (Rps 2 gene).
- **Cultivar. Seed.**

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


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.


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


PI 508272. Trifolium pratense L. FABACEAE Red clover


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 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 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.


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.

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

PI 508280

PI 508281

PI 508282
PI 508283. Poa pratensis L. POACEAE Kentucky bluegrass


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.


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


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 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. Kernels 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-B/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


PI 508293

PI 508294

PI 508295

PI 508296
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, Imhwae 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:** C18515.  
**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 to 508350-continued

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

Cultivated.  Seed.

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 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 to 508383-continued

            Cultivated.  Seed.

            Cultivated.  Seed.

            Cultivated.  Seed.

            Cultivated.  Seed.

            Cultivated.  Seed.

            Cultivated.  Seed.

            Cultivated.  Seed.

            Cultivated.  Seed.

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            Cultivated.  Seed.

            Cultivated.  Seed.

            Cultivated.  Seed.
Cultivated. Seed.

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, 

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 
Seed.

PI 508385 donor id: V764-14-J2-B2-J2. origin: Israel. pedigree: 
Bluebird Tordo/Lachish/3/Nursi/T. dicoccoides (strain 
(strain G-25) used to obtain higher protein and stripe 
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 

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 508384 to 508400-continued


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 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.


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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


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 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 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 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 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 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 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 to 508446-continued

PI 508445

PI 508446

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

PI 508448

PI 508449

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.  
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.  
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.  
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.  
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.  
cultivar: Summer fresh.  

PI 508456  
origin: Korea, Republic of.  
cultivar: Tender green.  
PI 508453 to 508460-continued


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.


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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 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 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 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 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 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


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 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 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.


PI 508505 to 508507. Ipomoea batatas (L.) Lam. CONVOLVULACEAE Sweet potato

Donated by: Shiga, T., Sweet Potato Breeding Center, Central Agr. Experiment Station, Kuriyama, Yotsukaido, Japan. Received November 24, 1986.


PI 508508 to 508509. Ipomoea batatas (L.) Lam. CONVOLVULACEAE Sweet Potato

Donated by: Shiga, T., Sweet Potato Breeding Center, Central Agr. Experiment Station, Kuriyama, Yotsukaido, Japan. Received November 24, 1986.

PI 508508 to 508509-continued


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.


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 508513. Ipomoea batatas (L.) Lam. CONVOLVULACEAE Sweet Potato

Donated by: CENARGEN, Brasilia, Brazil. Received November 24, 1986.


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 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.  

PI 508517  origin: China, Peoples Repub of.  origin institute: Yantai Agricultural Institute, Yantai, Shandong Province.  

PI 508518  origin: China, Peoples Repub of.  origin institute: Yantai Agricultural Institute, Yantai, Shandong Province.  

PI 508519  origin: China, Peoples Repub of.  origin institute: Yantai Agricultural Institute, Yantai, Shandong Province.  

PI 508520  origin: China, Peoples Repub of.  origin institute: Yantai Agricultural Institute, Yantai, Shandong Province.  

PI 508521  origin: China, Peoples Repub of.  origin institute: Yantai Agricultural Institute, Yantai, Shandong Province.  

PI 508522.  Ipomoea batatas (L.) Lam.  CONVOLVULACEAE  Sweet potato  
Donated by:  Root and Tuber Improvement Program, IITA, Ibadan, Nigeria.  Received November 24, 1986.  

PI 508523.  Ipomoea batatas (L.) Lam.  CONVOLVULACEAE  Sweet potato  
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 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 to 508534-continued


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.


PI 508536. Avena nuda L. POACEAE Naked oat


PI 508537 to 508550. Avena sativa L. POACEAE Common oat

PI 508537 to 508550-continued


PI 508537 to 508550—continued


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.


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


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.


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 streambank 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.


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.


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


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.


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 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.

 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.

 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.

 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 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 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 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 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.  

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.  
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.  
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.  
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 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 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 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 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 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 508588 to 508596—continued


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.


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 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.

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 (Poiret) Stapf & C. E. Hubb. POACEAE Limpograss

**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.

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. Inflorcescences 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.

locality: Route 34, 60km NW of Santiago del Estero, Santiago del Estero Province. remarks:

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.

locality: Route BR 290, 89.5km W of Porto Alegre, Rio Grande do Sul. remarks:
Plants upright about 20cm tall. Flowers yellow. Wild. Seed.

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 paludiclavatum* (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 508623 to 508634. Paspalum almum 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 to 508634-continued


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 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 to 508637-continued

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.

locality: Cemetery along Route 1, 29km S of Posalas, Missiones 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.

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.

locality: West 43km of Entre Rios, Tarija Department.  remarks: Similar to but different population than PI 508638.  Wild.  Seed.

locality: West 43km of Entre Rios, Tarija Department.  remarks: Similar to but different population than PI 508638.  Wild.  Seed.

PI 508638 to 508642-continued


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 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 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 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 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 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, Missiones Province. remarks: Plants leafy form, larger than most. Leaves and inflorescences 0.5 to 0.6m 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.


PI 508665 to 508667. Paspalum cromyorhizon 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 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 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 508675 donor id: 50. origin: Brazil. collected: January 14, 1979. collector: B.L. Burson. collector id: 50. other id: Vails 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 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: Vails 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 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 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 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 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 to 508737-continued

PI 508733  
donor id: 276.  
origin: Argentina.  
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.  
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.  
collector: B.L. Burson.  
collector id: 419.  
locality: Ao San Juan, Route 12, 30km N of Posadas, Missiones Province.  
remarks: Plants low growing, spreading, stoloniferous, dense turf former. Inflorescences 15cm high. Wild. Seed.

PI 508736  
donor id: 470.  
origin: Argentina.  
collector: B.L. Burson.  
collector id: 470.  
locality: Route 126, 8km E of Curuzu Cuatia, Corrientes Province.  

PI 508737  
donor id: 692.  
origin: Argentina.  
collected: June 22, 1979.  
collector: B.L. Burson.  
collector id: 692.  
locality: Corrientes City, Corrientes Province.  

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.  
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 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 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.


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 508748 to 508760-continued


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, Missiones 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 Ríos 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 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 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 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 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 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 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.


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 have more racemes and smaller spikelets than PI 508779. Wild. Seed.


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.


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 508775 to 508787-continued


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 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 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 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 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 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: Vails 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 508807 to 508815-continued


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.


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.


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
donor id: 280.  
origin: Argentina.  
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.  
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.  
collector: B.L. Burson.  
collector id: 490.  
locality: Ao Sauce, Route 14, S of Gualeguaychu, 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: Vails 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.

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PI 508822 to 508845-continued


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 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 to 508854-continued


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 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.


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.


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 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 Cruziero, Santa Catarina.  **remarks:** Plants small. Leaves 30cm long. Inflorescences 45cm high. Wild. Seed.


PI 508860 to 508936-continued


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 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 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 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 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.  

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.

donor id: 613.  
origin: Argentina.  
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 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.

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

PI 508957

PI 508958

PI 508959

PI 508960

PI 508961

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

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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 508976  
donor id: 327.  
origin: Argentina.  
origin institute: Facultad de Agronomía, Univ. of Buenos Aires, Buenos Aires.  
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.  
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.  
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.  
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.  
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.  
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.  
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 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, Missiones 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, Missiones 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, Missiones 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 Posadas on Route 1, Missiones Province.  
**remarks:** Plants dead, bunch type. Leaves small, slender, 30cm long. Inflorescences 60cm high, 6-7 racemes each. 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.

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 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 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 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 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 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 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 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.

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.


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 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 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.


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.

   locality: East, 19km of Cruziero, Santa Catarina.  remarks: Plants low growing, spreading, growing in high acid soil.  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.

   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


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 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 to 509049-continued


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.


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 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 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.


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.


PI 509069. Festuca arundinacea Schreber POACEAE Tall fescue


PI 509070. Lolium perenne L. POACEAE Perennial ryegrass


PI 509071. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: ICRISAT, Patancheru P.O., Andhra Pradesh, India. Received May 15, 1987.


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 to 509073—continued

PI 509073  
origin: United States.  
cultivar: Bridger.  
pedigree: Indore/Norde.  
other id: CV-6.  
group: CSR-RAPE.  
other id: PVNP Cert. No. 8500171.  
remarks: Industrial oilseed type. Plants 90-170cm tall. Winter survival good. Growth habit determinate. Flowers early. Seed oil 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, Gongingoon, Kyungido, Republic of Korea. Received May 4, 1987.

PI 509074  
donor id: KAS 100-3-1.  
origin: Korea, Republic of.  

PI 509075  
origin: Korea, Republic of.  

PI 509076  
origin: Korea, Republic of.  

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  
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. 

PI 509090 donor id: KAS 540-1-1. origin: Korea, Republic of. 

PI 509091 donor id: KAS 560-6. origin: Korea, Republic of. 

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.

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 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.

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.

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.

locality: Yeongduk Gun, Gyeonsang Bug Do.  Cultivated.
Seed.

PI 509110  donor id: KAS 636-11.  origin: Korea, Republic of.
Seed.

PI 509111  donor id: KAS 638-3.  origin: Korea, Republic of.
Seed.
PI 509074 to 509112—continued


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.


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


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 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 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 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 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 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 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 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 roughed skinned kabulis, few desi types. 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 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 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 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 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 Cicekdağı, 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 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 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 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 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 509270  donor id: 240785-1301.  origin: Turkey.  collected: July 24, 1985.  locality: Harvested piles in field, road to Denizili, 28km from Yesilova, Denizli Province.  elevation: 930m.  remarks: Plants mostly tall, upright. Seeds medium to large, cream-white, kabuli type. 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.


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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 509315 to 509432. Lens culinaris Medikus FABACEAE Lentil


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  

PI 509365  

PI 509366  

PI 509367  

PI 509368  

PI 509369  

PI 509370  

PI 509371  

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<table>
<thead>
<tr>
<th>Donor ID</th>
<th>Origin</th>
<th>Collection Date</th>
<th>Locality</th>
<th>Elevation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>100785-0301</td>
<td>Turkey</td>
<td>July 10, 1985</td>
<td>Threshing pile at village, 56km from Silvan on Diyarbakir to Silvan road, Diyarbakir Province.</td>
<td>710m</td>
<td>Seeds small to medium, red cotyledons. Cultivated. Seed.</td>
</tr>
<tr>
<td>100785-0401</td>
<td>Turkey</td>
<td>July 10, 1985</td>
<td>Threshing pile, 48km to Silvan from Diyarbakir, Diyarbakir Province.</td>
<td>750m</td>
<td>Plants short. Seeds medium, red cotyledon. Cultivated. Seed.</td>
</tr>
<tr>
<td>100785-0202</td>
<td>Turkey</td>
<td>July 11, 1985</td>
<td>Piles of drying plants in farmer's field, red soil, 25km N of Diyarbakir on road to Elazig, Diyarbakir Province.</td>
<td>780m</td>
<td>Seed size mixed, mostly red seed coats and red cotyledons. Cultivated. Seed.</td>
</tr>
<tr>
<td>130785-0501</td>
<td>Turkey</td>
<td>July 13, 1985</td>
<td>Near village of Pazaroren, 26km after Pinarbasi, Kayseri Province.</td>
<td>1400m</td>
<td>Plants short, planted in April, well podded. Seeds large, yellow, no mottling. Cultivated. Seed.</td>
</tr>
<tr>
<td>130785-0601</td>
<td>Turkey</td>
<td>July 13, 1985</td>
<td>Piles, road to Kayseri, 7km after Bunyan, Kayseri Province.</td>
<td>1160m</td>
<td>Plants tall, well podded. Seeds large, green, no mottling. Cultivated. Seed.</td>
</tr>
<tr>
<td>150785-0301</td>
<td>Turkey</td>
<td>July 15, 1985</td>
<td>15km to Aksaray, from Nevsehir, Nevsehir Province.</td>
<td>1170m</td>
<td>Plants short, possibly winter type. Seeds thick, medium, yellow cotyledons. Cultivated. Seed.</td>
</tr>
<tr>
<td>150785-0401</td>
<td>Turkey</td>
<td>July 15, 1985</td>
<td>48km to Aksaray on road from Nevsehir, Nevsehir Province.</td>
<td>1200m</td>
<td>Plants medium, well podded. Seeds large, yellow, no mottling. Cultivated. Seed.</td>
</tr>
<tr>
<td>150785-0501</td>
<td>Turkey</td>
<td>July 15, 1985</td>
<td>Piles, Yalman village, 43km to Aksaray from Nevsehir, Nidge Province.</td>
<td>1180m</td>
<td>Plants moderately tall and upright. Seeds mostly large, some small, yellow, no mottling. Cultivated. Seed.</td>
</tr>
<tr>
<td>150785-0603</td>
<td>Turkey</td>
<td>July 15, 1985</td>
<td>Cultivated. Seed.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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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 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 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.


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.


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.


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.

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.


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.


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.


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


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.


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.


PI 509448 to 509450. Glycine arenaria Tind. FABACEAE


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 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
- **Type:** Wild.
- **Seed.**

**PI 509452**
- **Donor id:** G1626
- **Origin:** Australia
- **Locality:** Cooloola National Park, 7km N of Freshwater Camping Area, Queensland
- **Type:** 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
- **Type:** Wild.
- **Seed.**

**PI 509454**
- **Donor id:** G1270
- **Origin:** Australia
- **Locality:** Coligram, Victoria
- **Type:** Wild.
- **Seed.**

**PI 509455**
- **Donor id:** G1482
- **Origin:** Australia
- **Locality:** North Pool, Wiluna, Western Australia
- **Type:** Wild.
- **Seed.**

**PI 509456**
- **Donor id:** G1485
- **Origin:** Australia
- **Locality:** 35km S of Peak Hill, Western Australia
- **Type:** Wild.
- **Seed.**

**PI 509457**
- **Donor id:** G1500
- **Origin:** Australia
- **Locality:** Warialda, New South Wales
- **Type:** Wild.
- **Seed.**

**PI 509458**
- **Donor id:** G1672
- **Origin:** Australia
- **Locality:** Stanley Chasm, Northern Territory
- **Type:** Wild.
- **Seed.**

**PI 509459**
- **Donor id:** G1966
- **Origin:** Australia
- **Locality:** 6km N of Enngonia, New South Wales
- **Type:** 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
- **Type:** Wild.
- **Seed.**

**PI 509461**
- **Donor id:** G1031
- **Origin:** Australia
- **Locality:** Tinderry Ranges, S of Queanbeyan, New South Wales
- **Type:** 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 509464  donor id: G1225.  origin: Australia.  locality: Kangaroo R. Bridge, 8km E of Robertson, 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 509471. Glycine curvata Tind.  FABACEAE


PI 509472. Glycine cyrtoloba Tind.  FABACEAE


 donor id: G1729.  origin: Australia.  locality: 2.3km S of Rainbow Beach, Queensland.  Wild.  Seed.
PI 509473 to 509475. Glycine falcata Benth. FABACEAE


PI 509473 donor id: G2082. origin: Australia. locality: Capella Creek, Capella, Queensland. Wild. Seed.

PI 509476 to 509480. Glycine latifolia (Benth.) C. Newell & Hymowitz FABACEAE


PI 509479 donor id: G1466. origin: Australia. locality: 8km W of Mungalla, Queensland. Wild. Seed.

PI 509481 to 509482. Glycine latrobeana (Meissner) Benth. FABACEAE


PI 509483 to 509489. Glycine microphylla (Benth.) Tind. FABACEAE


PI 509484 donor id: G1272. origin: Australia. locality: Bunya Mountains, Dalby, Queensland. Wild. Seed.


PI 509490 to 509498. Glycine tabacina (Labill.) Benth. FABACEAE


PI 509490 donor id: G1538. origin: Australia. locality: 5km S of Helidon, Queensland. remarks: 2x chromosome no. = 40. Wild. Seed.


PI 509493 donor id: G1208. origin: Australia. locality: Broulee Beach, 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 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


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 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 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 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 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.


PI 509516 to 509517. Zea mays subsp. mexicana (Schrader) Iltis POACEAE

Teosinte


PI 509518. Oryza sativa L. POACEAE Rice


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 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:** Derveni, 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 conditions, 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. Verticillum wilt & moderate to Phytophthora root rot. **insect resistance:** High to spotted alfalfa aphid & resistance to pea aphid. Cultivar. Seed.
PI 509535 continued

**PI 509535**  
pedigree: Twelve-clone synthetic. other id: CV-149.  
group: CSR-ALFALFA. other id: YAR21, 80V-1, UV-1.  

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**PI 509536 to 509541. Arachis hypogaea L. FABACEAE Peanut**

**PI 509536**  
donor id: VGP 2. origin: United States. pedigree: Chico/Florigiant. other id: GP-42. group: CSR-PEANUTS.  

**PI 509537**  
donor id: VGP 3. origin: United States. pedigree: Chico/Florigiant. other id: GP-43. group: CSR-PEANUTS.  

**PI 509538**  
donor id: VGP 4. origin: United States. pedigree: Chico/Florigiant. other id: GP-44. group: CSR-PEANUTS.  


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.


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 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.


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.

PI 509547 to 509548. Glycine max (L.) Merr. FABACEAE Soybean


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.


PI 509550 to 510520. Oryza sativa L. POACEAE Rice


350


PI 509587 donor id: Gp-20815. origin: UNKNOWN. cultivar: UNKN MGVR (PI282947?). other id: NSL 10/78 Stp 4754.

PI 509588 donor id: Gp-20816. origin: UNKNOWN. cultivar: UNKN MGVR. other id: NSL 10/78 Stp 4788.

PI 509589 donor id: Gp-20817. origin: UNKNOWN. cultivar: UNKN LGVR. other id: NSL 10/78 Stp 4848.


PI 509592 donor id: Gp-20824. origin: UNKNOWN. cultivar: UNKN LGVR. remarks: BLTS 7203?.

PI 509593 donor id: Gp-20825. origin: UNKNOWN. cultivar: UNKN LGVR. remarks: BLTS 8032?.


PI 509595 donor id: Gp-20831. origin: UNKNOWN. cultivar: UNKN LGVR. remarks: BLTS 8300?.

PI 509596 donor id: Gp-20833. origin: UNKNOWN. cultivar: UNKN MGVR (Not CI8302). other id: 83 CRO.


PI 509619 donor id: Gp-20992. origin: UNKNOWN. cultivar: UNKN MGVR (CI8961? or PI400436?). other id: 64 BMT 8961. Cultivated. Seed.


PI 509550 to 510520-continued


PI 509693 donor id: Gp-22872. origin: UNKNOWN. cultivar: UNKN MGVR (CI8575 or PI400324?). remarks: Plot 2447-?. Cultivated. Seed.


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PI 509550 to 510520—continued

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PI 509550 to 510520-continued

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PI 509839  donor id: Gp-24597. origin: UNKNOWN.  
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PI 509840  donor id: Gp-24604. origin: UNKNOWN.  
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PI 509896  donor id: Gp-24697.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509897  donor id: Gp-24698.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509898  donor id: Gp-24699.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509899  donor id: Gp-24701.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509901  donor id: Gp-24703.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509903  donor id: Gp-24705.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509904  donor id: Gp-24706.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509905  donor id: Gp-24707.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509906  donor id: Gp-24708.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509907  donor id: Gp-24710.  origin: UNKNOWN.  cultivar: UNKN  
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PI 509915  donor id: Gp-24725.  origin: UNKNOWN.  cultivar: UNKN MGVR (Not PI400621?).  other id: 77 BMT 2061.
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PI 510014


PI 510015


PI 510016


PI 510017


PI 510018


PI 510019


PI 510020


PI 510021


PI 510022


PI 510023


PI 510024


PI 510025


PI 510026


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PI 509550 to 510520-continued


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
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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
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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

PI 510141 donor id: Gp-27018.  origin: UNKNOWN.  cultivar: UNKN
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PI 510142 donor id: Gp-27244.  origin: UNKNOWN.  cultivar: UNKN
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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 509550 to 510520-continued


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PI 509550 to 510520-continued

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PI 510311  donor id: Gp-29004.  origin: UNKNOWN.  cultivar: RGUE FR

PI 510312  donor id: Gp-29005.  origin: UNKNOWN.  cultivar: RGUE FR

PI 510313  donor id: Gp-29006.  origin: UNKNOWN.  cultivar: RGUE FR

PI 510314  donor id: Gp-29007.  origin: UNKNOWN.  cultivar: RGUE FR

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PI 510325  donor id: Gp-29019.  origin: UNKNOWN.  cultivar: RGUE FR


PI 509550 to 510520-continued


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PI 510407  donor id: Gp-12229.  origin: UNKNOWN.  cultivar: UNKN

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PI 510412  donor id: Gp-12414.  origin: UNKNOWN.  cultivar: UNKN

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PI 510414  donor id: Gp-12570.  origin: UNKNOWN.  cultivar: UNKN

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PI 510416  donor id: Gp-12886.  origin: UNKNOWN.  cultivar: UNKN

PI 510417  donor id: Gp-13204.  origin: UNKNOWN.  cultivar: UNKN

PI 510418  donor id: Gp-13238.  origin: UNKNOWN.  cultivar: UNKN

PI 510419  donor id: Gp-13242.  origin: UNKNOWN.  cultivar: UNKN
MGVR (PI330649 non-valid).  other id: 83 DAV.  Cultivated.  Seed.
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PI 509550 to 510520-continued

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PI 510462  donor id: Gp-18991.  origin: UNKNOWN.  cultivar: UNKN
           MGVR (Not PI282178).  other id: 83 DAV.  Cultivated.
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PI 510463  donor id: Gp-19011.  origin: UNKNOWN.  cultivar: UNKN
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PI 510464  donor id: Gp-19066.  origin: UNKNOWN.  cultivar: UNKN
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PI 510465  donor id: Gp-19108.  origin: UNKNOWN.  cultivar: UNKN
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PI 510466  donor id: Gp-19122.  origin: UNKNOWN.  cultivar: UNKN
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PI 510467  donor id: Gp-19129.  origin: UNKNOWN.  cultivar: UNKN
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PI 510468  donor id: Gp-19151.  origin: UNKNOWN.  cultivar: UNKN
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PI 510470  donor id: Gp-19181.  origin: UNKNOWN.  cultivar: UNKN
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PI 510471  donor id: Gp-19226.  origin: UNKNOWN.  cultivar: UNKN
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PI 510472  donor id: Gp-19231.  origin: UNKNOWN.  cultivar: UNKN
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PI 509550 to 510520-continued


PI 509550 to 510520-continued


PI 510521 to 510524. Avena sativa L. POACEAE Common oat

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnicadel Altiplano, Casilla 291, Puno, Peru.  remarks: Local names refer to Indian Tribal and/or Spanish (Span.) names.  Received August 29, 1985.


PI 510525 to 510531. Chenopodium pallidicaule Aellen  
CHENOPODIACEAE

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 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 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 plani, 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 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 to 510551-continued


PI 510551 donor id: RB-104. origin: Peru. local name: Quinua (Quechua), Quinoa var. K'ank'o'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 Tecnica del 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 Tecnica del 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.).

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.

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.

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 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 510574 to 510579. Phaseolus vulgaris L. FABACEAE Garden 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 510574 to 510579-continued


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.  remarks: Plants sown in remote area with access only by foot trail. 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 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 510590 to 510603. Vicia faba L. FABACEAE Broad bean

Donated by: Bergman, R., Sistemas de Agricultura, Univ. Nacional Tecnico del Altiplano, Puno, Peru. remarks: Local names refer to Indian Tribal and/or Spanish (Span.) names. Received August 29, 1985.


PI 510590 to 510603-continued

PI 510595  
origin: Peru.  
local name: Jancco Hosnayo Jabasa (Aymara), Habas Blanca de Granos Grandes (Span.).  
locality: Chatuma Community, Pomata District, Chucuito Province, Puno Department.  
latitude: 16 deg. 17 min. S.  
longitude: 69 deg. 17 min. W.  

PI 510596  
origin: Peru.  
local name: Wila Jabasa (Aymara), Habas Rojo (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. 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.).  
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.).  
locality: Molloko Community, Acora District, Puno Province, Puno Department.  
latitude: 16 deg. 0 min. S.  
longitude: 69 deg. 47 min. W.  
elevation: 3810m.  

PI 510599  
donor id: RB-82.  
origin: Peru.  
local name: Chimi Jawasa or Uchuela Jawasa (Aymara), Habas Blanca Chico (Span.).  
locality: Molloko Community, Acora District, Puno Province, Puno Department.  
latitude: 16 deg. 0 min. S.  
longitude: 69 deg. 47 min. W.  
cold tolerance: Some frost resistance.  
Cultivated. Seed.
PI 510590 to 510603-continued


PI 510604 to 510628. Zea mays L.  POACEAE  Corn

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 510605  donor id: RB-4.  origin: Peru.  local name: Puka Hank'a (Quechua), Maiz (Span.).  collected: May 12, 1985.  


PI 510607  donor id: RB-7.  origin: Peru.  local name: Paragaya (Quechua), Maiz (Span.).  collected: May 12, 1985.  

PI 510608  donor id: RB-10.  origin: Peru.  local name: Wanuri (Quechua), Maiz (Span.).  collected: May 12, 1985.  


PI 510611  donor id: RB-16.  origin: Peru.  local name: Ch'egchi Hank'a or Uspha Wallis (Quechua).  collected: May 12, 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.

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.

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.

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.

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.


PI 510627  

PI 510628  

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  

PI 510630  

PI 510631  

PI 510632  
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 agua. **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 to 510649-continued


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 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, Allepo, 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, Allepo, 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, Allepo, 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.


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 CO 2 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 CO 2 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 NDS(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 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.


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.


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.

PI 510678. Saccharum hybrid POACEAE Sugarcane

Donated by: Kresovich, S., Texas Agricultural Experiment Station, Weslaco, Texas, United States. Received July 15, 1987.


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 to 510683-continued


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 to 510687-continued


PI 510688 to 510689.  Sorghum bicolor (L.) Moench  POACEAE  Sorghum


PI 510690 to 510692.  Medicago sativa L.  FABACEAE  Alfalfa


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PI 510690 to 510692-continued

PI 510690  
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  
wart. 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  
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  
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  
alalfa 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 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 to 510763-continued

collector: A.T. Perez.  collector id: AP79-31.  locality:  
Market, Mora, North Province.  latitude: 11 deg. 02 min.  
Seed.

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.  

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.  

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.  

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.  

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.  

collector: A.T. Perez.  collector id: AP79-90.  locality:  
Yagoua, North Province.  latitude: 10 deg. 20 min. N.  
Seed.

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  
Seed.
collector: A.T. Perez.  collector id: AP79-91A.  
Cultivated.  Seed.


  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.

  locality: 26km NW Tchakidjebe, Maroua to Meri, North Province.  
  latitude: 10 deg. 44 min. N.  longitude: 14 deg. 13 min. E.  Annual.  
  Cultivated.  Seed.

  locality: 26km NW Tchakidjebe, Maroua to Meri, North Province.  
  Cultivated.  Seed.

  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 

  locality: 26km NW Tchakidjebe, Maroua to Meri, North Province.  

  locality: 26km NW Tchakidjebe, Maroua to Meri, North Province.  

  locality: 33km NW Douvangar, Maroua to Meri, North Province.  

  locality: 33km NW Douvangar, Maroua to Meri, North Province.  
locality: 33km NW Douvangar, Maroua to Meri, North Province.  

locality: 43km NW Meri, Maroua to Mokolo, North Province.  

locality: 43km NW Meri, Maroua to Mokolo, North Province.  

locality: 43km NW Meri, Maroua to Mokolo, North Province.  


locality: 47km SW Roumsiki, Mokolo to Bourrah, North Province.  

locality: 47km SW Roumsiki, Mokolo to Bourrah, North Province.  
locality: 47km SW Roumsiki, Mokolo to Bourrah, North Province.

locality: 18km SE Sanguere, Garoua to Ngaoundere, North Province.

locality: 18km Gaschigo, Garoua to Mayo Oulo, North Province.

locality: 46km NE Badjouma, Garoua to Guider, North Province.

locality: 46km NE Badjouma, Garoua to Guider, North Province.

locality: 46km NE Badjouma, Garoua to Guider, North Province.

locality: 46km NE Badjouma, Garoua to Guider, North Province.

locality: 46km NE Badjouma, Garoua to Guider, North Province.


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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 Maíz 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)