Plant Inventory
No. 199, Part II

Plant Materials Introduced
July 1 to December 31, 1990
(Nos. 541500 to 546348)
Plant Inventory No. 199 is a listing of plant materials introduced into the U.S. National Plant Germplasm System during calendar year 1990. The Inventory is divided into two parts that encompass PIs 536645 - 546348. This is not a listing of plant material for distribution.

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

R.A. Norris, Germplasm Specialist
Plant Introduction Office
National Germplasm Resources Laboratory
U.S. Dept. of Agriculture
Agricultural Research Service
Beltsville, MD 20705

Other contributors to Plant Inventory 199 included:

Vicki Binstock
L.G. Garner
Quinn Sinnott
Allan K. Stoner
G.A. White

Copies of this publication may be purchased from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

ARS has no additional copies for free distribution.
PI 541500 to 541504. Pyrus communis L. ROSACEAE Pear

Donated by: Hill, Russel, 23675 A Grange Street, Covelo, California, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 29, 1988.


PI 541505 to 541506. Pyrus communis L. ROSACEAE Pear

Donated by: Bear Creek Nursery, Northport, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 08, 1988.


PI 541507. Pyrus communis L. ROSACEAE Pear

Donated by: Rombough, Lon, 4285 Claxter Ct. N.E., Salem, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 04, 1988.

PI 541508 to 541509. Pyrus communis L. ROSACEAE Pear

Donated by: Gebhardt Orchards, Central Point, Oregon, United States.
remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 04, 1988.


PI 541510 to 541523. Pyrus communis L. ROSACEAE Pear

Donated by: Kennedy, C.T., California Rare Fruit Growers, 95 Atherton Avenue, Atherton, California, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 25, 1988.


PI 541510 to 541523—continued

PI 541517  
origin: United States. 
developer country: Europe.  
cultivar: President Deviolaine. 
pedigree: Uncertain.  

PI 541518  
origin: United States. 
developer country: Europe.  
cultivar: Sept en Guele. 
pedigree: Unknown.  

PI 541519  
origin: United States. 
developer country: Belgium.  
cultivar: Passe Colmar. 
pedigree: Unknown.  

PI 541520  
origin: United States. 
developer country: Switzerland.  
cultivar: Swiss Bergamotte. 
pedigree: Variegated sport of Bergamotte Suisse.  

PI 541521  
origin: United States. 
developer country: France.  
cultivar: Pierre Corneille. 
pedigree: Buerre Diel x Doyenne du Comice.  

PI 541522  
origin: United States. 
developer country: France.  
origin institute: Baltet Nursery, Troyes, California.  
cultivar: Charles Ernest.  

PI 541523  
origin: United States. 
developer country: Europe.  
cultivar: Bergamotte de Baillargues. 
pedigree: Uncertain.  

PI 541524 to 541532. Pyrus communis L. ROSACEAE Pear

Donated by: Harrison, Richard, Route 1 Box 433, Marianna, Florida, United States.  
remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received June 10, 1988.

PI 541524  
origin: United States. 
developer country: France.  
cultivar: Delbard Premier.  

PI 541525  
origin: United States. 
developer country: Italy.  
cultivar: Precoce di Frorano.  

PI 541526  
origin: United States. 
developer country: Italy.  
cultivar: Mirandino Mutatao.  

PI 541527  
origin: United States. 
developer country: Italy.  
cultivar: Precoce di Cassano.  
cultivar: Claude Blanchet. pedigree: Unknown. 

PI 541529  origin: United States. developer country: Italy. 
Cultivar. Cutting.

PI 541530  origin: United States. developer country: Italy. 

PI 541531  origin: United States. developer country: Italy. 
Cutting.

PI 541532  origin: United States. developer country: Italy. 
Cultivar. Cutting.

PI 541533. Pyrus communis L. ROSACEAE Pear

Donated by: McCormack, Malcom, Walnut Grove, California, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received August 22, 1988.

origin institute: Oregon State University, Exp. Sta., Medford, Oregon. 

PI 541534. Pyrus communis L. ROSACEAE Pear

Donated by: Sugar, Dr. David, Oregon State University, Southern Oregon Experiment Station, 569 Hanley Road, Medford, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received September 26, 1988.

origin: United States. 

PI 541535 to 541536. Pyrus communis L. ROSACEAE Pear

Donated by: Kinney, Lyle, Medford, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 09, 1989.
PI 541535 to 541536-continued

PI 541535  
origin: United States.  
cultivar: Doyenne du Comice - Crimson Gem.  
pedigree: Dark red sport of Regal Red.  
other id: Patent Pending.  
group: PEND.  
restricted: PAT.  
Perennial.  
Cultivar.  
Cutting.

PI 541536  
origin: United States.  
cultivar: Doyenne du Comice - Crimson Gem #2.  
pedigree: Dark red sport of Regal Red.  
other id: Plant Patent ?.  
group: PLNT.  
restricted: PAT.  
Perennial.  
Cultivar.  
Cutting.

PI 541537 to 541538.  Pyrus communis L.  ROSACEAE  Pear

Donated by: Raintree Nurseries, Morton, Washington, United States.  
remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received January 19, 1989.

PI 541537  
origin: United States.  
cultivar: Orcas.  
pedigree: Chance seedling.  
Perennial.  
Cultivar.  
Cutting.

PI 541538  
origin: United States.  
developer country: Canada.  
cultivar: Rescue.  
pedigree: Unknown, chance seedling.  
Perennial.  
Cultivar.  
Cutting.

PI 541539.  Pyrus communis L.  ROSACEAE  Pear

Donated by: Fisher, Dr. Elwood, James Madison University, Biology Department, Harrisonburg, Virginia, United States.  
remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received January 30, 1989.

origin: United States.  
developer country: France.  
origin institute: Department Orne, Alencon, Virginia.  
cultivar: Figue d'Alencon.  
Perennial.  
Cultivar.  
Cutting.

PI 541540 to 541543.  Pyrus communis L.  ROSACEAE  Pear

remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received February 15, 1989.

PI 541540  
origin: United Kingdom.  
cultivar: Laxton's Record.  
pedigree: Marie Louise x Doyenne du Comice.  
Perennial.  
Cultivar.  
Cutting.


PI 541544 to 541558. Pyrus communis L. ROSACEAE Pear

Donated by: Lanterman, Dr. W.S., Saanichton Research and Plant, Quarantine Station, Saanichton, British Columbia, Canada. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 28, 1989.


PI 541552  
origin: Canada.  
cultivar: Doyenne Perrault.  
Perennial.  
Cultivar.  
Cutting.

PI 541553  
origin: Canada.  
developer country: France.  
cultivar:  
Jeanne d'Arc.  
pedigree: Buerre Diel x Doyenne du Comice.  
Perennial.  
Cultivar.  
Cutting.

PI 541554  
origin: Canada.  
cultivar: Frangipane.  
pedigree:  
Unknown.  
Perennial.  
Cultivar.  
Cutting.

PI 541555  
origin: Canada.  
developer country: Italy.  
cultivar:  
Fiorenza.  
Perennial.  
Cultivar.  
Cutting.

PI 541556  
origin: Canada.  
cultivar: Ure.  
Perennial.  
Cultivar.  
Cutting.

PI 541557  
origin: Canada.  
developer country: Italy.  
cultivar:  
Coscia.  
pedigree: Chance seedling.  
Perennial.  
Cultivar.  
Cutting.

PI 541558  
origin: Canada.  
developer country: Italy.  
cultivar:  
Spina Carpi.  
pedigree: Unknown.  
Perennial.  
Cultivar.  
Cutting.

PI 541559.  
Pyrus communis L.  
ROSACEAE  Pear

Donated by: Sugar, Dr. David, Oregon State University, Southern  
Oregon Experiment Station, 569 Hanley Road, Medford, Oregon, United  
States.  remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received May 25, 1989.

origin: United States.  origin institute: Oregon State  
University, Experiment Station, Medford, Oregon.  
pedigree: Comice x Louis Pasteur.  
Perennial.  
Breeding Material.  
Cutting.

PI 541560 to 541562.  
Pyrus communis subsp. caucasica (Fed.) Browicz  
ROSACEAE  Pear

Donated by: Lombard, Dr. Porter, Oregon State University, Department  
of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United  
States.  remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received February 21, 1981.

PI 541560  
origin: USSR.  
developer country: United States.  
origin institute: Oregon State University, Experiment Station,  
Medford, Oregon.  
cultivar: Mag 5.  
pedigree: Seedling selection from seed collected in Russia.  
Perennial.  
Breeding Material.  
Plant.
PI 541560 to 541562-continued

PI 541561  

PI 541562  

PI 541563. Pyrus communis subsp. caucasica (Fed.) Browicz ROSACEAE Pear

Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.


PI 541564. Pyrus communis subsp. caucasica (Fed.) Browicz ROSACEAE Pear

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 22, 1986.


PI 541565. Pyrus communis subsp. caucasica (Fed.) Browicz ROSACEAE Pear

Donated by: Vitkovskij, Prof. V.L, N.I. Vavilov Institute, 44 Herzen Str., Leningrad, Soviet Union. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 16, 1987.

PI 541566. Pyrus communis subsp. caucasica (Fed.) Browicz  
ROSACEAE  
Pear

Donated by: Hortus Botanicus Acad. Sci., Taschkent, Uzbek Republic,  
Soviet Union. remarks: Pyrus accessions at NCGR-Corvallis being  
umbered. Received April 15, 1987.

origin: USSR. pedigree: Open-pollinated from botanical  

PI 541567. Pyrus communis var. pyraster L.  
ROSACEAE  
Pear

Donated by: Fridlund, Dr. Paul, Washington State University,  
Irrigated Agriculture and Extension, Center, Prosser, Washington,  
United States. remarks: Pyrus accessions at NCGR-Corvallis being  
umbered. Received March 31, 1981.

origin: United States. developer country: Europe.  

PI 541568 to 541569. Pyrus communis var. pyraster L.  
ROSACEAE  
Pear

Donated by: Westwood, Dr. M.N., Oregon State University,  
NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received April 08, 1983.

origin institute: Arnold Arboretum, Jamaica Plain,  
Massachusetts. pedigree: Seedling selection from seedlot  
collected wild in Hungary. Perennial. Breeding  
Material. Plant.

origin institute: Morton Arboretum, Lisle, Illinois.  
pedigree: Seedling selection from seedlot collected wild  

PI 541570 to 541582. Pyrus cordata Desv.  
ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University,  
NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received April 08, 1983.

PI 541570 origin: Turkey. developer country: United States.  
origin institute: Oregon State University, Dept.  
Horticulture, Corvallis, Oregon. pedigree: Seedling  
selection from seed collected in Turkey. Perennial.  
Breeding Material. Plant.
PI 541570 to 541582—continued

PI 541571  
**origin**: Turkey.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seed collected in Turkey.  
**Perennial. Breeding Material. Plant.**

PI 541572  
**origin**: Turkey.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected in Turkey.  
**Perennial. Breeding Material. Plant.**

PI 541573  
**origin**: Turkey.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected in Turkey.  
**Perennial. Breeding Material. Plant.**

PI 541574  
**origin**: Turkey.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected in Turkey.  
**Perennial. Breeding Material. Plant.**

PI 541575  
**origin**: Turkey.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected in Turkey.  
**Perennial. Breeding Material. Plant.**

PI 541576  
**origin**: Turkey.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected in Turkey.  
**Perennial. Breeding Material. Plant.**

PI 541577  
**origin**: France.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected wild in France.  
**Perennial. Breeding Material. Plant.**

PI 541578  
**origin**: France.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected wild in France.  
**Perennial. Breeding Material. Plant.**
PI 541570 to 541582-continued

PI 541579  
**origin**: France.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected wild in France.  
**Perennial. Breeding Material. Plant.**

PI 541580  
**origin**: France.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected wild in France.  
**Perennial. Breeding Material. Plant.**

PI 541581  
**origin**: France.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected wild in France.  
**Perennial. Breeding Material. Plant.**

PI 541582  
**origin**: France.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seedlot collected wild in France.  
**Perennial. Breeding Material. Plant.**

---

PI 541583 to 541587. Pyrus cordata Desv. ROSACEAE

**Donated by**: Zielinski, Dr. Q.B., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States.  
**remarks**: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.

PI 541583  
**origin**: France.  
**pedigree**: Collected from the wild in France.  
**collected**: December 18, 1967.  
**locality**: Poor rocky land near Angers Exp. Sta.  
**Perennial. Wild. Seed.**

PI 541584  
**origin**: France.  
**pedigree**: Collected from the wild in France.  
**collected**: December 18, 1967.  
**locality**: Poor rocky land near Angers Exp. Sta.  
**Perennial. Wild. Seed.**

PI 541585  
**origin**: France.  
**pedigree**: Collected from the wild in France.  
**collected**: December 18, 1967.  
**locality**: Poor rocky land near Angers Exp. Sta.  
**latitude**: 47 deg. N.  
**longitude**: 03 deg. E.  
**Perennial. Wild. Seed.**

PI 541586  
**origin**: France.  
**pedigree**: Collected from the wild in France.  
**collected**: December 18, 1967.  
**locality**: Poor rocky land near Angers Exp. Station.  
**Perennial. Wild. Seed.**
PI 541583 to 541587-continued

PI 541587  
**origin:** France.  
**pedigree:** Collected from the wild in France.  
**locality:** Poor rocky land near Angers Exp. Sta.  
**Perennial. Wild. Seed.**

PI 541588 to 541589. Pyrus cordata Desv. ROSACEAE

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered.  
**Received November 23, 1983.**

PI 541588  
**origin:** Turkey.  
**pedigree:** Collected from the wild in Turkey.  
**locality:** Antalya Vegetable Farm.  
**latitude:** 39 deg. N.  
**longitude:** 36 deg. E.  
**Perennial. Wild. Seed.**

PI 541589  
**origin:** Turkey.  
**pedigree:** Collected from the wild in Turkey.  
**locality:** Antalya Vegetable Farm.  
**latitude:** 39 deg. N.  
**longitude:** 36 deg. E.  
**Perennial. Wild. Seed.**

PI 541590 to 541591. Pyrus cordata Desv. ROSACEAE

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered.  
**Received January 22, 1986.**

PI 541590  
**origin:** Turkey.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection A from seedlot collected in Turkey.  
**Perennial. Breeding Material. Cutting.**

PI 541591  
**origin:** Turkey.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection B from seedlot collected in Turkey.  
**Perennial. Breeding Material. Cutting.**

PI 541592. Pyrus cossonii Rehder ROSACEAE Willow-leaved pear

**Donated by:** Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered.  
**Received February 21, 1981.**
PI 541592-continued


PI 541593. Pyrus cossinii Rehder ROSACEAE

Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.


PI 541594. Pyrus cossinii Rehder ROSACEAE

Donated by: Royal Botanical Gardens, Kew, England, United Kingdom. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541595. Pyrus dimorphophylla Makino ROSACEAE

Donated by: Callan, Dr. Nancy, Western Agricultural Research Center, 531 NE Quast Lane, Corvallis, Montana, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 24, 1982.


PI 541596 to 541598. Pyrus dimorphophylla Makino ROSACEAE

Donated by: Anderson, Dr. Peter, Missouri State University, State Fruit Experiment Station, Mountain Grove, Missouri, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received May 01, 1982.
PI 541596 to 541598-continued


PI 541599 to 541609.  Pyrus dimorphophylla Makino  ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  remarks: Pyrus accessions at NCGR-Corvallis being numbered.  Received April 08, 1983.


PI 541599 to 541609-continued

PI 541604  
**origin:** United States.  
**origin institute:** Oregon State University, Experiment Station, Medford, Oregon.  
**pedigree:** *P. dimorphophylla* x self seedling selection.  

PI 541605  
**origin:** Japan.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection B from seed collected in Japan.  

PI 541606  
**origin:** Japan.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection C from seed collected in Japan.  

PI 541607  
**origin:** Japan.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection B from seed collected in Japan.  

PI 541608  
**origin:** Japan.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection C from seed collected in Japan.  

PI 541609  
**origin:** Japan.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection B from seed collected in Japan.  

PI 541610. Pyrus dimorphophylla Makino ROSACEAE

**Donated by:** Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received January 17, 1984.

**origin:** Japan.  
**developer country:** United States. 
**origin institute:** Oregon State University, Research Station, Medford, Oregon.  
**pedigree:** Seedling selection from seed collected in Japan.  
PI 541611. Pyrus dimorphophylla Makino ROSACEAE

**Donated by:** Bell, Richard, USDA-ARS-NER, Appalachian Fruit Res. Station, Route 2, Box 45, Kearneysville, West Virginia, United States. **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received March 14, 1984.


PI 541612. Pyrus dimorphophylla Makino ROSACEAE

**Donated by:** Bell, Richard, USDA-ARS-NER, Appalachian Fruit Res. Station, Route 2, Box 45, Kearneysville, West Virginia, United States. **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received January 22, 1986.

**origin:** United States. **developer country:** Asia. **pedigree:** Uncertain. Perennial. Uncertain. Cutting.

PI 541613 to 541616. Pyrus elaeagrifolia Pallas ROSACEAE

**Donated by:** Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States. **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received February 21, 1981.

PI 541613 **origin:** Turkey. **developer country:** United States. **origin institute:** Oregon State University, Experiment Station, Medford, Oregon. **pedigree:** Seedling selection from seed collected in Turkey. Perennial. Breeding Material. Plant.

PI 541614 **origin:** Turkey. **developer country:** United States. **origin institute:** Oregon State University, Experiment Station, Medford, Oregon. **pedigree:** Seedling selection from seed collected wild in Turkey. Perennial. Breeding Material. Plant.

PI 541615 **origin:** Turkey. **developer country:** United States. **origin institute:** Oregon State University, Experiment Station, Medford, Oregon. **pedigree:** Seedling selection from seed collected in Turkey. Perennial. Breeding Material. Plant.

PI 541616 **origin:** Turkey. **developer country:** United States. **origin institute:** Oregon State University, Experiment Station, Medford, Oregon. **pedigree:** Seedling selection from seed collected in Turkey. Perennial. Breeding Material. Plant.
PI 541617. Pyrus elaeagrifolia Pallas ROSACEAE

**Donated by:** Callan, Dr. Nancy, Western Agricultural Research Center, 531 NE Quast Lane, Corvallis, Montana, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received March 24, 1982.

- **origin:** UNCERTAIN.  
- **developer country:** United States.  
- **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
- **pedigree:** Probably a seedling selection from wild seed. Perennial. Breeding Material. Plant.

PI 541618 to 541628. Pyrus elaeagrifolia Pallas ROSACEAE

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.

**PI 541618**  
- **origin:** United States.  
- **pedigree:** Collected from the wild in Oregon. **collected:** October 07, 1982.  
- **locality:** Corvallis. Perennial. Wild. Seed.

**PI 541619**  
- **origin:** United States.  
- **pedigree:** Collected from the wild in Oregon. **collected:** 1980.  
- **locality:** Corvallis. Perennial. Wild. Seed.

**PI 541620**  
- **origin:** Europe.  
- **developer country:** United States.  
- **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
- **pedigree:** Seed from seedling selection from Eurasian seedlot. Perennial. Breeding Material. Seed.

**PI 541621**  
- **origin:** Europe.  
- **developer country:** United States.  
- **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
- **pedigree:** Seed from seedling selection from Eurasian seedlot. Perennial. Breeding Material. Seed.

**PI 541622**  
- **origin:** UNCERTAIN.  
- **pedigree:** Collected from the wild. Perennial. Wild. Seed.

**PI 541623**  
- **origin:** Turkey.  
- **pedigree:** Collected from the wild in Turkey. **locality:** Cankaya. **latitude:** 39 deg. N. Perennial. Wild. Seed.

**PI 541624**  
- **origin:** Turkey.  
- **pedigree:** Collected from the wild in Turkey. **collected:** November 26, 1963. **latitude:** 29 deg. N. Perennial. Wild. Seed.

**PI 541625**  
- **origin:** UNCERTAIN.  
- **pedigree:** Collected from the wild. Perennial. Wild. Seed.
PI 541618 to 541628-continued


PI 541629. Pyrus elaeagrifolia Pallas ROSACEAE

Donated by: Vitkovskij, Prof. V.L, N.I. Vavilov Institute, 44 Herzen Str., Leningrad, Soviet Union. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 16, 1987.


PI 541630. Pyrus elaeagrifolia Pallas ROSACEAE


PI 541631. Pyrus elaeagrifolia Pallas ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 18, 1989.

PI 541632 to 541633. Pyrus fauriei C. Schneider ROSACEAE

Donated by: Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 21, 1981.


PI 541634. Pyrus fauriei C. Schneider ROSACEAE

Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.


PI 541635. Pyrus fauriei C. Schneider ROSACEAE

Donated by: Callan, Dr. Nancy, Western Agricultural Research Center, 531 NE Quast Lane, Corvallis, Montana, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 24, 1982.


PI 541636 to 541652. Pyrus fauriei C. Schneider ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541653. Pyrus fauriei C. Schneider ROSACEAE

PI 541653-continued


PI 541654 to 541655. Pyrus fauriei C. Schneider ROSACEAE

Donated by: Miller, C. Ferris, Chollipo Arboretum, 344-16 Yonhui-Dong, Seoul, Korea, Republic of. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received May 01, 1986.


PI 541656. Pyrus fauriei C. Schneider ROSACEAE

Donated by: Cho, H. M., Horticultural Experiment Station, Suweon, Korea, Republic of. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received December 02, 1987.


PI 541657 to 541661. Pyrus fauriei C. Schneider ROSACEAE

Donated by: Robbins, Patricia, USDA-ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 25, 1989.

PI 541657 to 541661-continued

PI 541658  
*origin:* Korea, Republic of.  
*developer country:* United States.  
*origin institute:* Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
*pedigree:* Seedling selection from seed collected in Korea. Perennial.  
*Breeding Material.* Plant.

PI 541659  
*origin:* Korea, Republic of.  
*developer country:* United States.  
*origin institute:* Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
*pedigree:* Seedling selection from seed collected in Korea. Perennial.  
*Breeding Material.* Plant.

PI 541660  
*origin:* Korea, Republic of.  
*developer country:* United States.  
*origin institute:* Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
*pedigree:* Seedling selection from seed collected in Korea. Perennial.  
*Breeding Material.* Plant.

PI 541661  
*origin:* Korea, Republic of.  
*developer country:* United States.  
*origin institute:* Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
*pedigree:* Seedling selection from seed collected in Korea. Perennial.  
*Breeding Material.* Plant.

PI 541662. *Pyrus gharbiana Trabut*  
**ROSACEAE**

*Donated by:* Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States.  
*remarks:* Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.

*origin:* Morocco.  
*developer country:* United States.  
*origin institute:* Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
*pedigree:* Seedling selection from seedlot collected in Morocco. Perennial.  
*Breeding Material.* Plant.

PI 541663 to 541667. *Pyrus gharbiana Trabut*  
**ROSACEAE**

*Donated by:* Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
*remarks:* Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.

*origin:* Morocco.  
*developer country:* United States.  
*origin institute:* Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
*pedigree:* Seedling selection from seed collected in Morocco. Perennial.  
*Breeding Material.* Plant.
PI 541663 to 541667—continued

PI 541664  
origin: Morocco.  
developer country: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
pedigree: Seedling selection from seedlot collected in Morocco.  
Perennial.  
Breeding Material.  
Plant.

PI 541665  
origin: Morocco.  
developer country: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
pedigree: Seedling selection from seed collected wild in Morocco.  
Perennial.  
Breeding Material.  
Plant.

PI 541666  
origin: Morocco.  
developer country: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
pedigree: Seedling selection from seed collected wild in Morocco.  
Perennial.  
Breeding Material.  
Plant.

PI 541667  
origin: Morocco.  
pedigree: Collected from the wild in Morocco.  
locality: Taourirt.  
latitude: 34 deg. 25 min. N.  
longitude: 02 deg. 53 min. W.  
Perennial.  
Wild.  
Seed.

PI 541668. Pyrus gharbiana Trabut ROSACEAE

Donated by: Zielinski, Dr. Q.B., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States.  
remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received April 08, 1983.

origin: Morocco.  
pedigree: Collected from the wild in Morocco.  
latitude: 34 deg. 32 min. N.  
longitude: 05 deg. 50 min. W.  
Perennial.  
Wild.  
Seed.

PI 541669. Pyrus gharbiana Trabut ROSACEAE

Donated by: Long Ashton Research Station, Kent, England, United Kingdom.  
remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received March 03, 1986.

origin: United Kingdom.  
Perennial.  
Breeding Material.  
Cutting.
PI 541670. Pyrus glabra Boiss. ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.
remarks: Pyrus accessions at NCGR-Corvallis being numbered.
Received April 08, 1983.

origin: Turkey. developer country: United States.

PI 541671. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.


PI 541672. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Bell, Richard, USDA-ARS-NER, Appalachian Fruit Res. Station, Route 2, Box 45, Kearneysville, West Virginia, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 01, 1983.


PI 541673. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 08, 1983.

PI 541674 to 541681. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541682. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.

Remarks: Pyrus accessions at NCGR-Corvallis being numbered.

Received May 10, 1983.


PI 541683 to 541687. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.

Remarks: Pyrus accessions at NCGR-Corvallis being numbered.

Received January 22, 1986.


PI 541688. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Iizuka, Muneo, Ministry of Agriculture and Forestry, Horticultural Research Station, 1519 Nakahara-Shimojuku, Kanagawa, Japan. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 09, 1988.


PI 541689. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Sanada, T., Ministry of Ag., Fisheries & Forestry, Fruit Tree Research Station, Ibaraki, Japan. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 18, 1988.


PI 541690. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 18, 1989.


PI 541691 to 541704. Pyrus hondoensis Kikuchi & Nakai ROSACEAE

Donated by: Robbins, Patricia, USDA-ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 25, 1989.


PI 541691 to 541704-continued


PI 541703  
**origin:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** P. hondoensis 117-28B x P. hondoensis W-6.  

PI 541704  
**origin:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** P. hondoensis 117-28B x P. hondoensis W-6.  

PI 541705 to 541717. Pyrus hybrid ROSACEAE Pear

**Donated by:** Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received February 21, 1981.

PI 541705  
**origin:** United States.  
**developer country:** United States.  
**cultivar:** Campas No.1.  
**pedigree:** P. pyrifolia hybrid.  

PI 541706  
**origin:** United States.  
**developer country:** United States.  
**cultivar:** Campas No.2.  
**pedigree:** P. pyrifolia hybrid.  

PI 541707  
**origin:** United States.  
**developer country:** France.  
**cultivar:** Cincincis.  
**pedigree:** P. pyrifolia x P. communis.  

PI 541708  
**origin:** United States.  
**developer country:** United States.  
**cultivar:** Dixie.  
**pedigree:** Le Conte x P. pyrifolia.  

PI 541709  
**origin:** United States.  
**cultivar:** Estella.  
**pedigree:** Kieffer x P. communis.  
**local name:** Rootstock Pear.  

PI 541710  
**origin:** United States.  
**developer country:** United States.  
**cultivar:** Eureka.  
**pedigree:** Seckel x Kieffer.  

PI 541711  
**origin:** United States.  
**developer country:** United States.  
**cultivar:** Garber.  
**pedigree:** P. pyrifolia hybrid.  

PI 541712  
**origin:** United States.  
**cultivar:** Good Christian.  
**pedigree:** Chance seedling.  

PI 541713  
**origin:** United States.  
**developer country:** Europe.  
**cultivar:** Greisa No.1.  
**pedigree:** P. pyrifolia hybrid.  
PI 541705 to 541717-continued

cultivar: Kieffer.  pedigree: P. pyrifolia x Bartlett.

origin institute: Pennsylvania State University, Pennsylvania.  
cultivar: Richard Peters.  pedigree: Kieffer seedling (P. pyrifolia x Bartlett).

origin institute: Cornell University, Agricultural Experiment Station, Ithaca, New York.  

cultivar: Variolosa.  pedigree: P. pashia x P. communis.

PI 541718. Pyrus hybrid ROSACEAE Pear

Donated by: Waterworth, Dr. Howard, USDA-ARS, National Program Staff, Room 228 Bldg 005, BARC-West, Beltsville, Maryland, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 24, 1981.


PI 541719. Pyrus hybrid ROSACEAE Pear


PI 541720 to 541721. Pyrus hybrid ROSACEAE Pear

Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.
PI 541720 to 541721-continued

PI 541720  
origin: United States.  
developer country: United States.  
origin institute: Missouri State University, Agricultural Experiment Station, Mountain Grove, Missouri.  
cultivar: Missouri No. 83.  
Perennial.  
Cultivar.  
Plant.

PI 541721  
origin: Turkey.  
developer country: United States.  
origin institute: Oregon State University, Experiment Station, Medford, Oregon.  
pedigree: Seedling selection from Olez seedlot 3 collected in Turkey.  
Perennial.  
Breeding Material.  
Plant.

PI 541722 to 541727. Pyrus hybrid ROSACEAE Pear

Donated by: Bell, Richard, USDA-ARS-NER, Appalachian Fruit Res. Station, Route 2, Box 45, Kearneysville, West Virginia, United States.  
remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received February 01, 1983.

PI 541722  
origin: United States.  
developer country: United States.  
origin institute: University of Tennessee, Agricultural Experiment Station, Knoxville, Tennessee.  
cultivar: Ayres.  
pedigree: Garber x Anjou.  
Perennial.  
Cultivar.  
Plant.

PI 541723  
origin: United States.  
cultivar: Douglas.  
pedigree: OP Kieffer (x Duchess d'Angouleme?).  
Perennial.  
Cultivar.  
Plant.

PI 541724  
origin: United States.  
cultivar: Mandan 58-4.  
pedigree: Patten x Parker, hybrid.  
Perennial.  
Breeding Material.  
Plant.

PI 541725  
origin: United States.  
cultivar: Mandan 62-1.  
Perennial.  
Breeding Material.  
Plant.

PI 541726  
origin: United States.  
developer country: United States.  
origin institute: Missouri State University, Agricultural Experiment Station, Pontotoc, Mississippi.  
cultivar: Pontotoc.  
pedigree: P. communis x P. ussuriensis or P. pyrifolia.  
Perennial.  
Cultivar.  
Cutting.

PI 541727  
origin: United States.  
developer country: United States.  
cultivar: Sodak.  
pedigree: P. sinensis x Margueritte Marillat.  
Perennial.  
Cultivar.  
Plant.
PI 541728 to 541802. Pyrus hybrid ROSACEAE Pear

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.

remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541728 to 541802-continued

PI 541737  
**origin:** United States.  **pedigree:** Collected from the wild in Oregon.  **collected:** October 03, 1966.  **locality:** Talent, Southern Oregon.  **Perennial. Wild. Seed.**

PI 541738  
**origin:** United States.  **origin institute:** Oregon State University, Experiment Station, Medford, Oregon.  **pedigree:** P. fauriei x P. betulaefolia-1.  **local name:** Rootstock Pear.  **Perennial. Breeding Material. Plant.**

PI 541739  
**origin:** United States.  **origin institute:** Oregon State University, Experiment Station, Medford, Oregon.  **pedigree:** P. fauriei x P. betulaefolia-1.  **local name:** Rootstock Pear.  **Perennial. Breeding Material. Plant.**

PI 541740  
**origin:** United States.  **origin institute:** Oregon State University, Experiment Station, Medford, Oregon.  **pedigree:** P. fauriei x P. heterophylla.  **local name:** Rootstock Pear.  **Perennial. Breeding Material. Plant.**

PI 541741  
**origin:** Japan.  **pedigree:** Collected from the wild in Japan.  **collected:** 1965.  **locality:** Kara Mamenashi.  **latitude:** 36 deg. N.  **longitude:** 136 deg. E.  **Perennial. Wild. Seed.**

PI 541742  
**origin:** Australia.  **pedigree:** P. calleryana x pashia hybrid collected wild in Australia.  **Perennial. Wild. Seed.**

PI 541743  
Pyrus communis L.  **ROSACEAE Pear**  
**origin:** United States.  **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  **pedigree:** Bartlett x P. communis French open pollinated.  **collected:** December 31, 1963.  **Perennial. Breeding Material. Seed.**

PI 541744  
**origin:** Yugoslavia.  **developer country:** United States.  **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  **pedigree:** Seedling selection from seedlot collected in Yugoslavia.  **Perennial. Breeding Material. Plant.**

PI 541745  
**origin:** Yugoslavia.  **developer country:** United States.  **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  **pedigree:** Seedling selection from seedlot collected in Yugoslavia.  **Perennial. Breeding Material. Plant.**

PI 541746  
**origin:** United States.  **origin institute:** Oregon State University, Experiment Station, Medford, Oregon.  **pedigree:** P. serrulata x P. heterophylla.  **Perennial. Breeding Material. Plant.**


PI 541757 Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Pear


PI 541762 Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Pear

PI 541763 Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Pear

PI 541764 Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Pear

PI 541765 Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Pear
PI 541766  Pyrus pyrifolia (Burm. f.) Nakai  ROSACEAE  Pear  
**origin:** United States.  **origin institute:** Oregon State University, Experiment Station, Medford, Oregon.  

PI 541767  
**origin:** United States.  **origin institute:** Oregon State University, Experiment Station, Medford, Oregon.  
**pedigree:** Nijisseiki x Old Home.  **local name:** Rootstock Pear. Perennial. Breeding Material. Plant.

PI 541768  
**origin:** Australia.  **origin institute:** Victoria Extension Station, Dept. Horticulture, Victoria.  

PI 541769  
**origin:** Australia.  **developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541770  
**origin:** Australia.  **developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** P. betulifolia x P. calleryana seedling selection.  **local name:** Rootstock Pear. Perennial. Breeding Material. Plant.

PI 541771  
**origin:** Australia.  **developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** P. betulaefolia-2 x P. calleryana-2.  **local name:** Rootstock Pear. Perennial. Breeding Material. Plant.

PI 541772  
**origin:** United States.  **origin institute:** Oregon State University, Experiment Station, Medford, Oregon.  

PI 541773  
**origin:** Australia.  **origin institute:** Victoria Extension Station, Dept. Horticulture, Victoria.  
**pedigree:** P. pashia x P. calleryana.  **local name:** Rootstock Pear. Perennial. Breeding Material. Plant.

PI 541774  
**origin:** United States.  **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** P. betulaefolia x P. calleryana-5.  **local name:** Rootstock Pear. Perennial. Breeding Material. Plant.
PI 541775  
**origin**: United States.  
**origin institute**: Oregon State University, Experiment Station, Medford, Oregon.  
**pedigree**: P. betulaefolia x P. pyrifolia seedling A.  

PI 541776  
**origin**: United States.  
**origin institute**: Oregon State University, Experiment Station, Medford, Oregon.  
**pedigree**: P.ussuriensis x P. calleryana seedling selection.  

PI 541777  
**origin**: United States.  
**origin institute**: Oregon State University, Experiment Station, Talent, Oregon.  
**pedigree**: Nelis x P. betulaefolia seedling selection A.  

PI 541778  
**origin**: United States.  
**origin institute**: Oregon State University, Experiment Station, Talent, Oregon.  
**pedigree**: Burkett x P. betulaefolia seedling selection.  

PI 541779  
**origin**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: P. dimorphophylla x P. fauriei seedling A.  

PI 541780  
**origin**: United States.  
**origin institute**: Oregon State University, Experiment Station, Talent, Oregon.  
**pedigree**: P-79 x P. betulaefolia seedling selection.  

PI 541781  
**origin**: United States.  
**origin institute**: Oregon State University, Experiment Station, Talent, Oregon.  
**pedigree**: P-12 x P. betulaefolia seedling selection A.  

PI 541782  
**origin**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: P. betulaefilia-2 x P. calleryana-2 seedling selection.  

PI 541783  
**origin**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: P. betulaefolia-2 x P. calleryana-5 seedling selection.  
pedigree: P. betulifolia-2 x P-12 seedling selection.  


PI 541786  origin: United States.  origin institute: Oregon State University, Experiment Station, Talent, Oregon.  
pedigree: Burkett x P. betulifolia seedling selection.  

pedigree: Old Home x P. betulaefolia-1.  Perennial.  
Breeding Material. Plant.


PI 541789  origin: United States.  origin institute: Oregon State University, Experiment Station, Medford, Oregon.  
cultivar: OPR 141.  pedigree: P. ussuriensis x P. pyrifolia hybrid seedling selection.  

pedigree: P. betulaefolia-1 x P-12 seedling selection.  

pedigree: P. betulaefolia-1 x P-79 seedling selection.  


PI 541728 to 541802-continued


PI 541803. Pyrus hybrid  ROSACEAE  Pear

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  remarks: Pyrus accessions at NCGR-Corvallis being numbered.  Received May 10, 1983.
PI 541803-continued


PI 541804. Pyrus hybrid ROSACEAE Pear

**Donated by**: Peterson, Dr. Ronald, South Dakota State University, Dept. of Hort. and Forstry, Box 2207, Brookings, South Dakota, United States. **remarks**: Pyrus accessions at NCGR-Corvallis being numbered. Received January 13, 1987.


PI 541805. Pyrus hybrid ROSACEAE Pear

**Donated by**: Rombough, Lon, 4285 Claxter Ct. N.E., Salem, Oregon, United States. **remarks**: Pyrus accessions at NCGR-Corvallis being numbered. Received January 16, 1987.


PI 541806 to 541809. Pyrus hybrid ROSACEAE Pear

**Donated by**: Lamb, Dr. R. C., New York State University, Experiment Station, Geneva, New York, United States. **remarks**: Pyrus accessions at NCGR-Corvallis being numbered. Received January 20, 1987.


PI 541808  
**origin**: United States.  
**origin institute**: Cornell University, Agricultural Experiment Station, Geneva, New York.  
**cultivar**: NY 10355.  
**pedigree**: Bartlett x NY 10255.  
**Breeding Material. Cutting.**

PI 541809  
**origin**: United States.  
**origin institute**: Cornell University, Agricultural Experiment Station, Geneva, New York.  
**cultivar**: NY 10353.  
**pedigree**: Russet Flemish Beauty x NY 10257 (Bartlett x Ill. #65).  
**Breeding Material. Cutting.**

PI 541810. Pyrus hybrid ROSACEAE Pear  
**Donated by**: Yanagihara, Seiji, IBPGR, Thapathali, Katmandu, Nepal.  
**remarks**: Pyrus accessions at NCGR-Corvallis being numbered.  
Received March 31, 1987.  
**origin**: Nepal.  
**pedigree**: Collected from the wild in Nepal.  
**collected**: January 01, 1986.  
**latitude**: 28 deg. N.  
**longitude**: 84 deg. 30 min. E.  
**Wild. Seed.**

PI 541811 to 541812. Pyrus hybrid ROSACEAE Pear  
**Donated by**: Peterson, Dr. Ronald, South Dakota State University, Dept of Hort. and Forestry, Box 2207, Brookings, South Dakota, United States.  
**remarks**: Pyrus accessions at NCGR-Corvallis being numbered.  
Received March 31, 1987.  
**origin**: United States.  
**pedigree**: Uncertain, probably a hybrid.  
**Breeding Material. Cutting.**

PI 541813. Pyrus hybrid ROSACEAE Pear  
**Donated by**: Nito, Dr. Yuichi, 2821 14th South, Seattle, Washington, United States.  
**remarks**: Pyrus accessions at NCGR-Corvallis being numbered.  
Received February 18, 1988.  
**origin**: China.  
**developer country**: United States.  
**pedigree**: Open pollinated seed of cultivar Shi-Hua-Li.  
**Breeding Material. Seed.**
PI 541814. Pyrus hybrid ROSACEAE Pear

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered.  
Received January 18, 1989.

- **origin:** Turkey.  
- **developer country:** United States.  
- **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
- **pedigree:** Seedling selection from seed collected in Turkey.  
- **Breeding Material. Plant.**

PI 541815 to 541824. Pyrus hybrid ROSACEAE Pear

**Donated by:** Robbins, Patricia, USDA-ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received January 25, 1989.

**PI 541815**  
- **origin:** Afghanistan.  
- **developer country:** United States.  
- **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
- **pedigree:** Seedling selection from seed collected in Afghanistan.  
- **Breeding Material. Plant.**

**PI 541816**  
- **origin:** Afghanistan.  
- **developer country:** United States.  
- **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
- **pedigree:** Seedling selection from seed collected in Afghanistan.  
- **Breeding Material. Plant.**

**PI 541817**  
- **origin:** Afghanistan.  
- **developer country:** United States.  
- **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
- **pedigree:** Seedling selection from seed collected in Afghanistan.  
- **Breeding Material. Plant.**

**PI 541818**  
- **origin:** Afghanistan.  
- **developer country:** United States.  
- **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
- **pedigree:** Seedling selection from seed collected in Afghanistan.  
- **Breeding Material. Plant.**

**PI 541819**  
- **origin:** Afghanistan.  
- **developer country:** United States.  
- **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
- **pedigree:** Seedling selection from seed collected in Afghanistan.  
- **Breeding Material. Plant.**
PI 541815 to 541824-continued

PI 541820  
origin: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541821  
origin: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541822  
origin: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541823  
origin: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541824  
origin: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541825 to 541834. Pyrus koehnei C. Schneider  
ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
remarks: Pyrus accessions at NCGR-Corvallis being numbered.  
Received April 08, 1983.

PI 541825  
origin: United States.  
developer country: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541826  
origin: United States.  
developer country: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541827  
origin: United States.  
developer country: United States.  
origin institute: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  


PI 541834 origin: Taiwan. developer country: United States. 

PI 541835 to 541839. Pyrus koehnei C. Schneider ROSACEAE

Donated by: Beutel, James A., University of California, Department of Pomology, Davis, California, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.

PI 541835 to 541839-continued

PI 541836

**origin:** Taiwan. **pedigree:** Open pollinated (in California). **collected:** November 1968. Perennial. Cultivated. Seed.

PI 541837

**origin:** China. **pedigree:** Open pollinated (at U.C. Riverside, California). **collected:** November 1968. Perennial. Cultivated. Seed.

PI 541838

**origin:** China. **pedigree:** Fruits open pollinated (at Riverside, California). **collected:** November 1968. Perennial. Cultivated. Seed.

PI 541839


PI 541840 to 541841. Pyrus korshinskyi Litv. ROSACEAE

**Donated by:** Hortus Botanicus Acad. Sci., Taschkent, Uzbek Republic, Soviet Union. **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 15, 1987.

PI 541840

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

PI 541841

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

PI 541842. Pyrus korshinskyi subsp. bucharica (Litv.) Bondarenko ex Korovina ROSACEAE

**Donated by:** Long Ashton Research Station, Kent, England, United Kingdom. **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received March 03, 1986.


PI 541843 to 541852. Pyrus mamorensis Trabut ROSACEAE

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.
PI 541843

origin: Morocco. developer country: United States.
Breeding Material. Plant.

PI 541844

origin: Morocco. developer country: United States.

PI 541845

origin: Morocco. developer country: United States.

PI 541846

origin: Morocco. developer country: United States.

PI 541847

origin: Morocco. developer country: United States.

PI 541848

origin: Morocco. developer country: United States.

PI 541849

origin: Morocco. developer country: United States.

PI 541850

origin: Morocco. developer country: United States.
PI 541843 to 541852-continued


PI 541853 to 541854. Pyrus mamorensis Trabut ROSACEAE

Donated by: Zielinski, Dr. Q.B., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541855. Pyrus mamorensis Trabut ROSACEAE

Donated by: Long Ashton Research Station, Kent, England, United Kingdom. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 03, 1986.


PI 541856. Pyrus mamorensis Trabut ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 19, 1988.
PI 541856-continued

**origin**: Morocco. **developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seed collected in North Africa.  
**Perennial. Breeding Material. Cutting.**

PI 541857. Pyrus mamorensis Trabut ROSACEAE

**Donated by**: Dennis, Dr. Frank, Michigan State University, Department of Horticulture, East Lansing, Michigan, United States.  
**remarks**: Pyrus accessions at NCGR-Corvallis being numbered. Received January 10, 1989.

**origin**: Morocco.  
**pedigree**: Collected from the wild in Morocco.  
**collected**: December 01, 1988.  
**locality**: Between Rabat and Meknes, among cork oaks.  
**latitude**: 32 deg. N.  
**longitude**: 05 deg. 50 min. W.  
**Perennial. Wild. Seed.**

PI 541858. Pyrus mamorensis Trabut ROSACEAE

**Donated by**: Zielinski, Dr. Q.B., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States.  
**remarks**: Pyrus accessions at NCGR-Corvallis being numbered. Received January 18, 1989.

**origin**: Morocco.  
**developer country**: United States.  
**origin institute**: Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree**: Seedling selection from seed collected in Morocco.  
**Perennial. Breeding Material. Plant.**

PI 541859. Pyrus nivalis Jacq. ROSACEAE

**Donated by**: Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States.  
**remarks**: Pyrus accessions at NCGR-Corvallis being numbered. Received February 21, 1981.

**origin**: United States.  
**origin institute**: Oregon State University, Experiment Station, Medford, Oregon.  
**cultivar**: P-91.  
**pedigree**: Seedling selection.  
**local name**: Rootstock Pear.  
**Perennial. Breeding Material. Plant.**
PI 541860. Pyrus nivalis Jacq. ROSACEAE

Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.

green: UNCERTAIN. developer country: United States.

PI 541861. Pyrus nivalis Jacq. ROSACEAE

Donated by: Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 08, 1983.

green: UNCERTAIN. developer country: United States.

PI 541862 to 541864. Pyrus nivalis Jacq. ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.

PI 541862 origin: Europe. developer country: United States.


PI 541865. Pyrus nivalis Jacq. ROSACEAE

Donated by: Zielinski, Dr. Q.B., Oregon State University, Dept. Horticulture, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.
PI 541865-continued


PI 541866. Pyrus nivalis Jacq. ROSACEAE

Donated by: Royal Botanical Gardens, Kew, England, United Kingdom. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541867. Pyrus nivalis Jacq. ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 22, 1986.


PI 541868. Pyrus nivalis Jacq. ROSACEAE

Donated by: Vitkovskij, Prof. V.L, N.I. Vavilov Institute, 44 Herzen Str., Leningrad, Soviet Union. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 16, 1987.


PI 541869. Pyrus nivalis Jacq. ROSACEAE


PI 541870. Pyrus nivalis Jacq. ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.
remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 19, 1988.


PI 541871. Pyrus pashia Buch.-Ham. ex D. Don ROSACEAE

Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.


PI 541872. Pyrus pashia Buch.-Ham. ex D. Don ROSACEAE

Donated by: Anderson, Dr. Peter, Missouri State University, State Fruit Experiment Station, Mountain Grove, Missouri, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received May 01, 1982.


PI 541873 to 541889. Pyrus pashia Buch.-Ham. ex D. Don ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541875  

PI 541876  

PI 541877  

PI 541878  

PI 541879  

PI 541880  

PI 541881  
**origin**: India. **pedigree**: Collected from the wild in India. **latitude**: 20 deg. N. **longitude**: 78 deg. E. Perennial. Wild. Seed.

PI 541882  

PI 541883  

PI 541884  
PI 541885  
**origin:** Pakistan.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling sel. B from open pollinated seed from W. Pakistan.  
**perennial. Breeding Material. Plant.**

PI 541886  
**origin:** Australia.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection B from seed collected in Australia.  
**perennial. Breeding Material. Plant.**

PI 541887  
**origin:** Australia.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection C from seed collected in Australia.  
**perennial. Breeding Material. Plant.**

PI 541888  
**origin:** Pakistan.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection B of seed collected in W. Pakistan.  
**perennial. Breeding Material. Plant.**

PI 541889  
**origin:** Pakistan.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection C from seed collected in Pakistan.  
**perennial. Breeding Material. Plant.**

PI 541890. *Pyrus pashia* Buch.-Ham. ex D. Don  
**ROSACEAE**

**Donated by:** Hortus Botanicus Acad. Sci., Taschkent, Uzbek Republic, Soviet Union.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 15, 1987.  
**origin:** USSR.  
**pedigree:** Open-pollinated from botanical collection.  
**perennial. Cultivated. Seed.**

PI 541891 to 541895. *Pyrus hybrid*  
**ROSACEAE**

**Donated by:** Thompson, Dr. Maxine, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received January 12, 1989.  
**origin:** Pakistan.  
**pedigree:** Collected from the wild in Pakistan.  
**collected:** October 01, 1988.  
**latitude:** 30 deg. N.  
**longitude:** 70 deg. E.  
**perennial. Wild. Seed.**
PI 541891 to 541895-continued

PI 541892 Pyrus pashia Buch.-Ham. ex D. Don ROSACEAE

PI 541893 Pyrus pashia Buch.-Ham. ex D. Don ROSACEAE

PI 541894 Pyrus pashia Buch.-Ham. ex D. Don ROSACEAE

PI 541895 Pyrus pashia Buch.-Ham. ex D. Don ROSACEAE

PI 541896. Pyrus pseudopashia T. T. Yu ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541897 to 541899. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Asian Pear

Donated by: Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 21, 1981.


PI 541899  

PI 541900. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Oriental Pear  
Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.


PI 541901 to 541902. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Oriental Pear  
Donated by: Anderson, Dr. Peter, Missouri State University, State Fruit Experiment Station, Mountain Grove, Missouri, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received May 01, 1982.

PI 541901  

PI 541902  

PI 541903. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Asian Pear  
Donated by: Bell, Richard, USDA-ARS-NER, Appalachian Fruit Res. Station, Route 2, Box 45, Kearneysville, West Virginia, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 01, 1983.

PI 541904 to 541909. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Asian Pear

**Donated by:** Beutel, James A., University of California, Department of Pomology, Davis, California, United States. **Remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received February 10, 1983.

PI 541904 **Origin:** United States. **Developer country:** China. **Cultivar:** Seuri Li. Perennial. Cultivar. Plant.

PI 541905 **Origin:** United States. **Cultivar:** Szumi. Perennial. Cultivar. Plant.

PI 541906 **Origin:** United States. **Developer country:** China. **Cultivar:** Huang Guar. Perennial. Cultivar. Plant.

PI 541907 **Origin:** United States. **Developer country:** China. **Cultivar:** Czui. Perennial. Cultivar. Plant.

PI 541908 **Origin:** United States. **Developer country:** United States. **Origin institute:** South Dakota State University, Agricultural Experiment Station, Brookings, South Dakota. **Cultivar:** Okolo. **Pedigree:** Seedling selection. Perennial. Cultivar. Plant.

PI 541909 Pyrus ussuriensis Maxim. ROSACEAE Asian Pear

**Origin:** United States. **Developer country:** China. **Cultivar:** Chin Li. Perennial. Cultivar. Plant.

PI 541910. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Oriental Pear

**Donated by:** Park, Mr. K, Hawaii, United States. **Remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541911 to 541925. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Oriental Pear

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. **Remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.

PI 541911 **Origin:** Korea, Republic of. **Pedigree:** Collected from the wild in Korea, possible hybrid. **Collected:** September 07, 1981. **Locality:** Cheongju, coarse granite soil, pH4 to 5, steep slope. **Latitude:** 37 deg. N. **Longitude:** 127 deg. E. **Elevation:** 340m. Perennial. Wild. Seed.


PI 541923  
**origin:** United States.  **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541924  
**origin:** Korea.  **developer country:** United States.  **origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
**pedigree:** Seedling selection from seed collected in Korea. Perennial. Breeding Material. Plant.

PI 541925  
**origin:** Korea, Republic of.  **developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  

PI 541926 to 541928. **Pyrus pyrifolia (Burm. f.) Nakai**  
**ROSACEAE**  
**Oriental Pear**

**Donated by:** Donoho, Dr. Clive, University of Georgia, Agricultural Experiment Station, Athens, Georgia, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.

PI 541926  
**origin:** United States.  
**pedigree:** Open-pollinated from yard planting.  

PI 541927  
**origin:** United States.  
**pedigree:** Open pollinated from yard planting.  

PI 541928  
**origin:** United States.  
**pedigree:** Open pollinated from yard planting.  

PI 541929. **Pyrus pyrifolia (Burm. f.) Nakai**  
**ROSACEAE**  
**Oriental Pear**

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received January 22, 1986.

**origin:** Pakistan.  
**developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon.  
PI 541930. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Oriental Pear

Donated by: Cho, H. M., Horticultural Experiment Station, Suweon, Korea, Republic of. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received December 02, 1987.


PI 541931. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Asian Pear

Donated by: Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received September 26, 1988.

origin: United States. developer country: Japan. origin institute: Ministry of Agriculture and Forestry, Division of Fruit Breeding, Fruit Tree Research Center, Yatabe, Ibaraki, Oregon 300-21. cultivar: Hosui. pedigree: (Kikusi x Yakumo) x Yakumo. Perennial. Cultivar. Plant.

PI 541932 to 541943. Pyrus pyrifolia (Burm. f.) Nakai ROSACEAE Oriental Pear

Donated by: Robbins, Patricia, USDA-ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 25, 1989.


PI 541932 to 541943-continued


PI 541944 to 541945. Pyrus regelii Rehder  ROSACEAE

Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.


PI 541946. Pyrus regelii Rehder  ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541947. Pyrus regelii Rehder  ROSACEAE

Donated by: Long Ashton Research Station, Kent, England, United Kingdom. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 03, 1986.

PI 541948. Pyrus salicifolia Pallas  ROSACEAE Willow-leaved pear

**Donated by:** Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.

*origin institute:* Oregon State University, Dept. Horticulture, Corvallis, Oregon.  *pedigree:* Seedling selection from OP seed from botanical collection.  

PI 541949. Pyrus salicifolia Pallas  ROSACEAE Willow-leaved Pear

**Donated by:** Pourtet, J., Angers, France.  **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541950 to 541952. Pyrus salicifolia Pallas  ROSACEAE Willow-leaved Pear

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
*remarks:* Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.

*origin institute:* Oregon State University, Dept. Horticulture, Corvallis, Oregon.  *pedigree:* Seedling selection from OP seed from botanical collection.  

PI 541951  *origin:* United States.  *developer country:* United Kingdom.  

PI 541952  *origin:* Australia.  *pedigree:* Collected from the wild in Australia.  *latitude:* 23 deg. S.  *longitude:* 135 deg. E.  
*Perennial.* Wild.  *Seed.*

PI 541953. Pyrus salicifolia Pallas  ROSACEAE Willow-leaved pear

**Donated by:** Vitkovskij, Prof. V.L, N.I. Vavilov Institute, 44 Herzen Str., Leningrad, Soviet Union.  
*remarks:* Pyrus accessions at NCGR-Corvallis being numbered. Received March 16, 1987.
PI 541953-continued


PI 541954 to 541955. Pyrus sp. ROSACEAE Asian Pear

Donated by: Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 21, 1981.


PI 541956 to 541960. Pyrus sp. ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 541961. Pyrus sp. ROSACEAE

Donated by: Schultz, Bill, Cardwell Hill Drive, Philomath, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 27, 1986.


PI 541962. Pyrus sp. ROSACEAE Asian Pear

Donated by: Westigard, Dr. P. H., Oregon State University, Southern Oregon Experiment Station, 569 Hanley Road, Medford, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 28, 1986.


PI 541963. Pyrus sp. ROSACEAE


PI 541964. Pyrus sp. ROSACEAE

Donated by: Thompson, Dr. Maxine, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 12, 1989.


PI 541965 to 541966. Pyrus ussuriensis Maxim. ROSACEAE Asian Pear

PI 541965 to 541966-continued

PI 541965  
**origin:** United States. **developer country:** China.  
**cultivar:** Nangon Li. Perennial. Cultivar. Cutting.

PI 541966  
**origin:** United States. **developer country:** China. **origin institute:** Huhoot Experiment Station, Oregon. **cultivar:** Huhoot Li. Perennial. Cultivar. Cutting.

PI 541967 to 541972. Pyrus sp. ROSACEAE

**Donated by:** Lanterman, Dr. W.S., Saanichton Research and Plant, Quarantine Station, Saanichton, British Columbia, Canada.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received February 28, 1989.

PI 541967  

PI 541968  

PI 541969  

PI 541970  

PI 541971  

PI 541972  

PI 541973. Pyrus syriaca Boiss. ROSACEAE

**Donated by:** Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.

**origin:** Israel. **developer country:** United States.  
**origin institute:** Oregon State University, Dept. Horticulture, Corvallis, Oregon. **pedigree:** Seedling selection from seed collected in Israel. Perennial. Breeding Material. Plant.

PI 541974 to 541979. Pyrus syriaca Boiss. ROSACEAE

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.
PI 541974 to 541979-continued

PI 541974 origin: Israel. developer country: United States.
origin institute: Oregon State University, Dept.

PI 541975 origin: Israel. developer country: United States.
origin institute: Oregon State University, Dept.

PI 541976 origin: Israel. developer country: United States.
origin institute: Oregon State University, Dept.

PI 541977 origin: Israel. developer country: United States.
origin institute: Oregon State University, Dept.


PI 541980 to 541982. Pyrus syriaca Boiss. ROSACEAE

Donated by: Thompson, Dr. Maxine, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States.
remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 16, 1984.


PI 541980 to 541982-continued

PI 541982  
**origin:** Syria.  
**pedigree:** Seed collected from the wild in Syria.  
**collected:** October 26, 1983.  
**locality:** NE of Damascus.  
**latitude:** 33 deg. 30 min. N.  
**longitude:** 36 deg. 18 min. E.  
**elevation:** 1100m.  
**Perennial.  Wild.  Seed.**

PI 541983. Pyrus syriaca Boiss. ROSACEAE

**Donated by:** Thompson, Dr. Maxine, Oregon State University, Department of Horticulture, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered.  
**Received January 16, 1986.**

**origin:** Syria.  
**pedigree:** Seed collected from the wild in Syria.  
**collected:** January 16, 1983.  
**locality:** East of Suwayda, In Al Arab Mts.  
**latitude:** 32 deg. 55 min. N.  
**longitude:** 45 deg. E.  
**elevation:** 1500m.  
**Perennial.  Wild.  Seed.**

PI 541984. Pyrus ussuriensis Maxim. ROSACEAE

**Donated by:** Anderson, Dr. Peter, Missouri State University, State Fruit Experiment Station, Mountain Grove, Missouri, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered.  
**Received May 01, 1982.**

**origin:** United States.  
**origin institute:** Oregon State University, Department of Horticulture, Corvallis, Oregon.  
**Perennial.  Breeding Material.  Plant.**

PI 541985 to 542002. Pyrus ussuriensis Maxim. ROSACEAE  Asian Pear

**Donated by:** Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States.  
**remarks:** Pyrus accessions at NCGR-Corvallis being numbered.  
**Received February 21, 1981.**

PI 541985  
**origin:** United States.  
**developer country:** China.  
**cultivar:** Ba Li Hsiang.  
**Perennial.  Cultivar.  Plant.**

PI 541986  
**origin:** United States.  
**developer country:** China.  
**cultivar:** Cheih Li.  
**Perennial.  Cultivar.  Plant.**

PI 541987  
**origin:** United States.  
**developer country:** China.  
**cultivar:** Chien Pa Li.  
**Perennial.  Cultivar.  Plant.**


PI 542003. Pyrus ussuriensis Maxim. ROSACEAE Sand Pear

Donated by: Fridlund, Dr. Paul, Washington State University, Irrigated Agriculture and Extension, Center, Prosser, Washington, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 31, 1981.


PI 542004 to 542007. Pyrus ussuriensis Maxim. ROSACEAE Asian Pear

Donated by: Bell, Richard, USDA-ARS-NER, Appalachian Fruit Res. Station, Route 2, Box 45, Kearneysville, West Virginia, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 01, 1983.


PI 542008 to 542009. Pyrus ussuriensis Maxim. ROSACEAE Asian Pear

Donated by: Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 08, 1983.


PI 542010. Pyrus ussuriensis Maxim. ROSACEAE Asian Pear

Donated by: Beutel, James A., University of California, Department of Pomology, Davis, California, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 10, 1983.


PI 542011 to 542020. Pyrus ussuriensis Maxim. ROSACEAE Sand Pear

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 542021. Pyrus ussuriensis Maxim. ROSACEAE Sand Pear

Donated by: Miller, C. Ferris, Chollipo Arboretum, 344-16 Yonhui-Dong, Seoul, Korea, Republic of. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received June 28, 1984.


PI 542022. Pyrus ussuriensis Maxim. ROSACEAE Asian Pear

Donated by: Beutel, James A., University of California, Department of Pomology, Davis, California, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 22, 1986.


PI 542023. Pyrus ussuriensis Maxim. ROSACEAE Asian Pear

Donated by: Beutel, James A., University of California, Department of Pomology, Davis, California, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 12, 1986.

PI 542024. *Pyrus ussuriensis* Maxim. ROSACEAE Asian Pear

**Donated by:** Bell, Richard, USDA-ARS-NER, Appalachian Fruit Res. Station, Route 2, Box 45, Kearneysville, West Virginia, United States. **Remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received February 24, 1986.

**Origin:** United States. **Developer country:** China. **Cultivar:** Tang Li. Perennial. Cultivar. Plant.

PI 542025. *Pyrus ussuriensis* Maxim. ROSACEAE Asian Pear

**Donated by:** Rombough, Lon, 4285 Claxter Ct. N.E., Salem, Oregon, United States. **Remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received December 29, 1986.

**Origin:** United States. **Developer country:** United States. **Cultivar:** Hansen Pear. Perennial. Cultivar. Cutting.

PI 542026. *Pyrus ussuriensis* Maxim. ROSACEAE Chinese Pear

**Donated by:** Parliman, Dr. Bruce, USDA-ARS-PGGI, 11601 George Palmer Highway, Plant Introduction Station, Glenn Dale, Maryland, United States. **Remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received January 20, 1987.

**Origin:** China. **Developer country:** United States. **Pedigree:** Selection of *P. ussuriensis* from Harbin. Perennial. Breeding Material. Cutting.

PI 542027. *Pyrus ussuriensis* Maxim. ROSACEAE Sand Pear

**Donated by:** Vitkovskij, Prof. V.L, N.I. Vavilov Institute, 44 Herzen Str., Leningrad, Soviet Union. **Remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received March 16, 1987.

**Origin:** USSR. **Pedigree:** Collected from the wild in the Soviet Union. Perennial. Wild. Seed.

PI 542028. *Pyrus ussuriensis* Maxim. ROSACEAE Chinese Pear

**Donated by:** Goheen, A., University of California, Davis, California, United States. **Remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1987.

**Origin:** China. **Origin institute:** Shenyang University, Shenyang, Liaoning. Perennial. Breeding Material. Seed.
PI 542029. Pyrus ussuriensis Maxim. ROSACEAE Sand Pear


PI 542030 to 542033. Pyrus ussuriensis Maxim. ROSACEAE Sand Pear

Donated by: Robbins, Patricia, USDA-ARS, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received January 25, 1989.


PI 542034. Pyrus x bretschneideri Rehder ROSACEAE


PI 542035. Pyrus x canescens Spach ROSACEAE


PI 542036. Pyrus complexa Rubtzov ROSACEAE

Donated by: Vitkovskij, Prof. V.L, N.I. Vavilov Institute, 44 Herzen Str., Leningrad, Soviet Union. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received March 16, 1987.


PI 542037. Pyrus x phaeocarpa Rehder ROSACEAE

Donated by: Lombard, Dr. Porter, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received February 21, 1981.


PI 542038. Pyrus x serrulata Rehder ROSACEAE

Donated by: Arnold Arboretum, The Arborway, Jamaica Plain, Massachusetts, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 542039. Pyrus x serrulata Rehder ROSACEAE

Donated by: Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. remarks: Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.

PI 542040. Pyrus x serrulata Rehder  ROSACEAE

**Donated by:** Hortus Botanicus Acad. Sci., Taschkent, Uzbek Republic, Soviet Union. **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 15, 1987.

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

PI 542041. Pyrus xerophila T. T. Yu  ROSACEAE

**Donated by:** Westwood, Dr. M.N., Oregon State University, NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. **remarks:** Pyrus accessions at NCGR-Corvallis being numbered. Received April 08, 1983.


PI 542042. Glycine max (L.) Merr.  FABACEAE Soybean

**Donated by:** Orf, J.H., Minnesota Agr. Exp. Sta., Dept. of Agronomy & Plant Genetics, Univ. of Minnesota, St. Paul, Minnesota, United States. **remarks:** Kato Soybean. Received May 24, 1990.

**origin:** United States. **origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota 55100. **cultivar:** Kato. **pedigree:** M70-127 x Century M70-127 is from Evans x M63-217Y M63-217Y is a yellow hilum near-isogenic sib of 'Hodson'. **other id:** CV-269. **source:** Crop Sci. 31(1):233 1991. **group:** CSR-SOYBEAN. **other id:** PVP 9000028. **source:** Pending. **group:** PVPO. **other id:** M81-382. **source:** Prior designation. **remarks:** Maturity Group I. Indeterminate growth type. Flowers purple. Pubescence tawny. Pods brown. Seeds shiny yellow with black hila. Height 100cm. Seed weight 195mg. Protein content 42.1%. Oil content 19.7%. Resistant to phytophthora root rot (caused by Phytophthora megasperma). Annual. Cultivar. Seed.

PI 542043. Glycine max (L.) Merr.  FABACEAE Soybean

**Donated by:** Bernard, R.L., Agricultural Research Service -- USDA, University of Illinois, 1102 South Goodwin, Urbana, Illinois, United States; and Illinois Agr. Exp. Sta.. **remarks:** Linford Soybean. Received May 24, 1990.
PI 542043-continued

PI 542044. Glycine max (L.) Merr. FABACEAE Soybean


PI 542045. Glycine max (L.) Merr. FABACEAE Soybean

PI 542045-continued


PI 542046. Glycine max (L.) Merr. FABACEAE Soybean


PI 542047. Hordeum vulgare L. POACEAE Barley

PI 542047-continued


PI 542048. Sesamum indicum L. PEDALIACEAE Sesame

Donated by: Brigham, R.D., Texas Agr. Exp. Sta., Texas A & M University, Route 3, Box 219, Lubbock, Texas, United States. Received May 31, 1990.

origin: United States. cultivar: dt45. pedigree: Developed from Israeli #45 by irradiating seeds with cobalt. other id: 1985 LB8 Field 301 increase. remarks: Determinate growth habit. Maturity medium. Plants 66-72cm in height, profusely branched with strong, green stalks. Branches terminate in clusters of 3-7 capsules. Capsules dehiscent, 4-loculed, medium length. Seeds dark brown to yellow, often vivaparous if moisture is present at maturity. Seed weight 4.2-4.4 g/1000 seeds (large). Oil content 48.8% or greater on weight basis. Protein ranges from 21.5 to. Spring Annual. Breeding Material. Seed.

PI 542049. Gossypium hirsutum L. MALVACEAE Cotton

Donated by: Calif. Planting Cotton Seed Distributors, California, United States. Received June 08, 1990.


PI 542050. Cucurbita pepo L. CUCURBITACEAE Pumpkin

Donated by: Peto Seed Compnay, Inc., United States. Received June 08, 1990.
PI 542050-continued


PI 542051. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Pickseed West Inc., United States. Received June 08, 1990.


PI 542052. Vigna unguiculata (L.) Walp. FABACEAE Cowpea

Donated by: South Carolina Agr. Exp. Sta., South Carolina, United States. Received June 08, 1990.


PI 542053. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Company, Inc., United States. Received June 08, 1990.


PI 542054. Cynara scolymus L. ASTERACEAE Globe artichoke

Donated by: The Regents of the Univ. of California, California, United States. Received June 08, 1990.


PI 542055. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Dairyland Seed Company, Inc., United States. Received June 08, 1990.
PI 542055-continued

origin: United States. **cultivar:** DSR-262. **other id:** PVP 9000180. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542056 to 542065. **Glycine max (L.) Merr.** **FABACEAE** Soybean

**Donated by:** Pioneer Hi-Bred International, Inc., United States. Received June 08, 1990.

PI 542056 **origin:** United States. **cultivar:** 9171. **other id:** PVP 9000181. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542057 **origin:** United States. **cultivar:** 9191. **other id:** PVP 9000182. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542058 **origin:** United States. **cultivar:** 9221. **other id:** PVP 9000183. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542059 **origin:** United States. **cultivar:** 9241. **other id:** PVP 9000184. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542060 **origin:** United States. **cultivar:** 9273. **other id:** PVP 9000185. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542061 **origin:** United States. **cultivar:** 9311. **other id:** PVP 9000186. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542062 **origin:** United States. **cultivar:** 9381. **other id:** PVP 9000187. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542063 **origin:** United States. **cultivar:** 9681. **other id:** PVP 9000188. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542064 **origin:** United States. **cultivar:** ARDIR. **other id:** PVP 9000189. **source:** Pending. **group:** PVPO. Cultivated. Seed.

PI 542065 **origin:** United States. **cultivar:** 9162. **other id:** PVP 9000190. **source:** Pending. **group:** PVPO. Cultivated. Seed.
PI 542066 to 542067. Glycine max (L.) Merr. FABACEAE Soybean

**Donated by:** FFR Cooperative, United States. Received June 08, 1990.

PI 542066  
**origin:** United States.  
**cultivar:** FFR 606.  
**other id:** PVP 9000191.  
**source:** Pending.  
**group:** PVPO.  
**Cultivated.**  
**Seed.**

PI 542067  
**origin:** United States.  
**cultivar:** FFR 646.  
**other id:** PVP 9000192.  
**source:** Pending.  
**group:** PVPO.  
**Cultivated.**  
**Seed.**

PI 542068 to 542069. Oryza sativa L. POACEAE Rice

**Donated by:** N.F. Davis Drier & Elevator, Inc., United States.  
Received June 08, 1990.

PI 542068  
**origin:** United States.  
**cultivar:** NFD 108.  
**other id:** PVP 9000193.  
**source:** Pending.  
**group:** PVPO.  
**Cultivated.**  
**Seed.**

PI 542069  
**origin:** United States.  
**cultivar:** NFD 109.  
**other id:** PVP 9000194.  
**source:** Pending.  
**group:** PVPO.  
**Cultivated.**  
**Seed.**

PI 542070 to 542071. Glycine max (L.) Merr. FABACEAE Soybean

**Donated by:** Dairyland Seed Company, Inc., United States.  
Received June 08, 1990.

PI 542070  
**origin:** United States.  
**cultivar:** DSR-333.  
**other id:** PVP 9000195.  
**source:** Pending.  
**group:** PVPO.  
**Cultivated.**  
**Seed.**

PI 542071  
**origin:** United States.  
**cultivar:** DSR-373.  
**other id:** PVP 9000196.  
**source:** Pending.  
**group:** PVPO.  
**Cultivated.**  
**Seed.**

PI 542072. Triticum aestivum L. POACEAE Common wheat

**Donated by:** Agripro Bioscience Inc., United States.  
Received June 08, 1990.

**origin:** United States.  
**cultivar:** CHEROKEE.  
**other id:** PVP 9000102.  
**source:** Pending.  
**group:** PVPO.  
**Cultivated.**  
**Seed.**
PI 542073 to 542075. Ipomoea batatas (L.) Lam. CONVOLVULACEAE Sweet potato

**Donated by:** De la Puente, F., CIP, Lima, Peru. Received May 18, 1990.

**PI 542073**
- **donor id:** DLP 3189.
- **origin:** Jamaica.
- **developer country:** Peru.
- **origin institute:** CIP, P.O. Box 5969, Lima.
- **origin institute id:** CIP 400006.
- **collector id:** DLP 3189.
- **locality:** 0.2km S Mandeville, Manchester Department, Mandeville Province.
- **elevation:** 610m.
- **Seed.**

**PI 542074**
- **donor id:** DLP 3203.
- **origin:** Jamaica.
- **developer country:** Peru.
- **origin institute:** CIP, P.O. Box 5969, Lima.
- **origin institute id:** CIP 400007.
- **collector id:** DLP 3203.
- **locality:** 5km W Kingston-Spanish town, Kingston Department, Kingston Province.
- **elevation:** 65m.
- **Wild. Seed.**

**PI 542075**
- **donor id:** DLP 3250.
- **origin:** Jamaica.
- **developer country:** Peru.
- **origin institute:** CIP, P.O. Box 5969, Lima.
- **origin institute id:** CIP 400008.
- **collector id:** DLP 3250.
- **locality:** 0.5km S Foga, Clarendon Department, Foga Province.
- **elevation:** 510m.
- **Wild. Seed.**

PI 542076. Ipomoea ochracea (Lindley) G. Don CONVOLVULACEAE

**Donated by:** De la Puente, F., CIP, Lima, Peru. Received May 18, 1990.

**PI 542076**
- **donor id:** DLP 3218.
- **origin:** Jamaica.
- **developer country:** Peru.
- **origin institute:** CIP, P.O. Box 5969, Lima.
- **origin institute id:** CIP 470152.
- **collector id:** DLP 3218.
- **locality:** 5km SE Chapleton, Clarendon Department, Chapleton Province.
- **elevation:** 280m.
- **Wild. Seed.**

PI 542077 to 542080. Ipomoea sp. CONVOLVULACEAE

**Donated by:** De la Puente, F., CIP, Lima, Peru. Received May 18, 1990.

**PI 542077**
- **donor id:** DLP 3176.
- **origin:** Jamaica.
- **collector id:** DLP 3176.
- **locality:** 0.5km S Kingston, Kingston Department, Kingston Province.
- **elevation:** 60m.
- **Wild. Seed.**

**PI 542078**
- **donor id:** DLP 3177.
- **origin:** Jamaica.
- **collector id:** DLP 3177.
- **locality:** 0.5km S Kingston, Kingston Department, Kingston Province.
- **elevation:** 60m.
- **Wild. Seed.**

**PI 542079**
- **donor id:** DLP 3178.
- **origin:** Jamaica.
- **collector id:** DLP 3178.
- **locality:** 0.5km S Kingston, Kingston Department, Kingston Province.
- **elevation:** 60m.
- **Wild. Seed.**

**PI 542080**
- **donor id:** DLP 3179.
- **origin:** Jamaica.
- **collector id:** DLP 3179.
- **locality:** 0.5km S Kingston, Kingston Department, Kingston Province.
- **elevation:** 60m.
- **Wild. Seed.**
PI 542077 to 542080-continued


PI 542081 to 542087. Ipomoea tiliacea (Willd.) Choisy CONVOLVULACEAE

Donated by: De la Puente, F., CIP, Lima, Peru. Received May 18, 1990.

PI 542081 donor id: DLP 3186. origin: Jamaica. developer country: Peru. origin institute: CIP, P.O. Box 5969, Lima. origin institute id: CIP 460145. collector id: DLP 3186. locality: 2km S Browns Town, St. Ann Department, Madras Province. elevation: 480m. Wild. Seed.

PI 542082 donor id: DLP 3187. origin: Jamaica. developer country: Peru. origin institute: CIP, P.O. Box 5969, Lima. origin institute id: CIP 460129. collector id: DLP 3187. locality: 4km S Browns Town, St. Ann Department, Madras Province. elevation: 488m. Wild. Seed.

PI 542083 donor id: DLP 3188. origin: Jamaica. developer country: Peru. origin institute: CIP, P.O. Box 5969, Lima. origin institute id: CIP 460146. collector id: DLP 3188. locality: 10km S Browns town, St. Ann Department, Madras Province. elevation: 580m. Wild. Seed.

PI 542084 donor id: DLP 3201. origin: Jamaica. developer country: Peru. origin institute: CIP, P.O. Box 5969, Lima. origin institute id: CIP 460147. collector id: DLP 3201. locality: 5km N Stanmored, St. Isabel Department, Sta Cruz Province. elevation: 520m. Wild. Seed.

PI 542085 donor id: DLP 3202. origin: Jamaica. developer country: Peru. origin institute: CIP, P.O. Box 5969, Lima. origin institute id: CIP 460121. collector id: DLP 3202. locality: 15km NE Mandeville-Spanish Town, Manchester Department, Mandeville Province. elevation: 680m. Wild. Seed.

PI 542086 donor id: DLP 3252. origin: Jamaica. developer country: Peru. origin institute: CIP, P.O. Box 5969, Lima. origin institute id: CIP 460148. collector id: DLP 3252. locality: 1km N Feather Bad Lane, St. Catherine Department, Spanish Town Province. elevation: 100m. Wild. Seed.

PI 542087 donor id: DLP 3253. origin: Jamaica. developer country: Peru. origin institute: CIP, P.O. Box 5969, Lima. origin institute id: CIP 460122. collector id: DLP 3253. locality: 0.5km N Linstead, St. Catherine Department, Linstead Province. elevation: 140m. Wild. Seed.
PI 542088. *Agrostis stolonifera var. palustris* (Huds.) Farw. POACEAE

**Donated by:** Brilman, L.A., Seed Research of Oregon, Inc., P.O. Box 1416, Corvallis, Oregon, United States; and Arizona Agr. Exp. Sta.

**Remarks:** SR 1020 Creeping Bentgrass. Received May 31, 1990.

**Origin:** United States. **Origin institute:** Seed Research of Oregon, Inc., P.O. Box 1416, Corvallis, Oregon 97339. **Cultivar:** SR 1020. **Pedigree:** Five clone advanced generation synthetic. Clones A19, A72, A74, A76, and A85 from University of Arizona collection. **Other id:** PVP 8800047. **Source:** Pending. **Group:** PVPO. **Other id:** CV-145. **Group:** CSR-OTHER GRASSES. **Remarks:** Plants leafy, fine-textured, dark green with upright growth habit. Tillers strongly, dense, persistent even at low fertility. Excellent heat and drought tolerance. Very good cold tolerance. Excellent seedling vigor. Excellent wear tolerance. Used for putting greens, tees, fairways, closely mowed turf. Improved resistance to Pythium blight (Pythium sp.) and powdery mildew (Erysiphe graminis). Moderate. **Received as:** A. palustris Creeping bentgrass. Perennial. Cultivar. Seed.

PI 542089. *Agrostis stolonifera var. palustris* (Huds.) Farw. POACEAE

**Donated by:** Brilman, L.A., Seed Research of Oregon, Inc., P.O. Box 1416, Corvallis, Oregon, United States; and Rhode Island Agr. Exp. Sta.

**Remarks:** Providence Creeping Bentgrass. Received May 31, 1990.

**Origin:** United States. **Origin institute:** Seed Research of Oregon, Inc., P.O. Box 1416, Corvallis, Oregon 97339. **Cultivar:** PROVIDENCE. **Pedigree:** Five clone advanced generation synthetic. Parental clones from University of Rhode Island trace back through seed and stolons to P-19, P-7, P-27, P-43, and P-87. **Other id:** PVP 8900287. **Source:** Pending. **Group:** PVPO. **Other id:** CV-144. **Group:** CSR-OTHER GRASSES. **Remarks:** Plants dark green, fine-textured, uniform, upright growth habit. High density, strong tillering contributes to wear tolerance and recuperative ability. Excellent cold tolerance. Good heat and drought tolerance. Excellent seedling vigor. Used on putting greens, tees, fairways, and other areas with closely mowed turf. Very good resistance to dollar spot (Lanzia and Moellerodiscus sp.) so can be used. **Received as:** A. palustris Creeping bentgrass. Perennial. Cultivar. Seed.
PI 542090 to 542091. Avena fatua L. POACEAE

**Donated by:** Quaker Oats Company, Chicago, Illinois, United States.  
**remarks:** Received through Ball Seed Company, West Chicago, Illinois, United States. Received May 31, 1990.

PI 542090  
**donor id:** Selection No. 1.  
**origin:** Nepal.  
**collector id:** Selection No. 1.  
**locality:** Kambachen, Himalaya.  
**remarks:** Plants glabrous, except some pubescence on callus and rachilla. Seed white (some with varying amounts of gray). Wild. Seed.

PI 542091  
**donor id:** Selection No. 2.  
**origin:** Nepal.  
**collector id:** Selection No. 2.  
**locality:** Kambachen, Himalaya.  
**remarks:** Plants heavy pubescence. Seed brown. Wild. Seed.

PI 542092 to 542098. Trigonella sp. FABACEAE

**Donated by:** Kaiser, W.J., USDA-ARS, Room 59, Johnson Hall, Washington State University, Pullman, Washington, United States.  
Received May 17, 1990.

PI 542092  
**origin:** Pakistan.  
**collected:** April 07, 1986.  
**other id:** W6-2692.  
**locality:** Sandy soil, Nuclear Institute of Ag. & Biology (NIAB), Faisalabad. Wild. Seed.

PI 542093  
**origin:** Pakistan.  
**collected:** April 11, 1986.  
**other id:** W6-2693.  
**locality:** Road to Tarabela Dam, Punjab Province.  
**elevation:** 610m. Wild. Seed.

PI 542094  
**origin:** Pakistan.  
**collected:** April 11, 1986.  
**other id:** W6-2694.  
**locality:** Rocky sandy soil, edge of chickpea and wheat plantings, Nizampur Road, Punjab Province.  
**elevation:** 762m. Wild. Seed.

PI 542095  
**origin:** Pakistan.  
**collected:** April 13, 1986.  
**other id:** W6-2695.  
**locality:** Sandy soil, on road from Fatehjang to Jand, Rawalpinda District, Punjab Province.  
**elevation:** 610m. Wild. Seed.

PI 542096  
**origin:** Pakistan.  
**collected:** April 13, 1986.  
**other id:** W6-2696.  
**locality:** Sandy soil about 58km from Bannu on the Kohat-Bannu road, near Khorum village, NWFP.  
**elevation:** 762m. Wild. Seed.

PI 542097  
**origin:** Pakistan.  
**collected:** April 13, 1986.  
**other id:** W6-2697.  
**locality:** Sandy soil in and around a chickpea field, Jand, Attock District, Panjab Province.  
**elevation:** 610m. Wild. Seed.
PI 542098 origin: Pakistan. collected: April 14, 1986. other id: W6-2698. locality: Sandy, rocky soil in wheat field, mountains along Bannu-Kohat Road, NWFP. elevation: 914m. Wild. Seed.

PI 542099 to 542101. Zea mays L. subsp. mays POACEAE Corn


PI 542102. *Saccharum officinarum* L. POACEAE Sugarcane

**Donated by:** Miller, J.D., Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida, United States; and Florida Agr. Exp. Sta.; and Florida Sugar Cane League, Inc.  
**Remarks:** CP 82-1172 Sugarcane. Received June 18, 1990.

origin: United States. origin institute: Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida 33438. **Cultivar:** CP 82-1172. pedigree: CP 75-1091/CP 75-1283. other id: CV-79. **Source:** Crop Sci. 31(1):234 1991. **Group:** CSR-SUGARCANE. **Remarks:** Stalk medium to large diameter, tall, and tendency to lodge. Leaf canopy closes quickly. Rarely flowers. Resistance to mosaic virus, leaf scald (Xanthomonas albilineans), eye spot (Bipolaris sacchari), and smut (Ustilago scitaminea). Millability rating of 0.979. Fiber content of 9.62%. Cultivar. Cutting.

PI 542103. *Saccharum officinarum* L. POACEAE Sugarcane

**Donated by:** Miller, J.D., Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida, United States; and Florida Agr. Exp. Sta.; and Florida Sugar Cane League, Inc.  
**Remarks:** CP 81-1302 Sugarcane. Received June 18, 1990.

origin: United States. origin institute: Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida 33438. **Cultivar:** CP 81-1302. pedigree: CP 72-2079/CP 71-1086. other id: CV-80. **Source:** Crop Sci. 31(1):235 1991. **Group:** CSR-SUGARCANE. **Remarks:** Stalk medium to large diameter. Maroon color where exposed to sun. Combination of good early vigor and broad leaves. Resistance to mosaic virus, leaf scald (Xanthomonas albilineans), eye spot (Bipolaris sacchari), and smut (Ustilago scitaminea). Cultivar. Cutting.

PI 542104. *Saccharum officinarum* L. POACEAE Sugarcane

**Donated by:** Miller, J.D., Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida, United States; and Florida Agr. Exp. Sta.; and Florida Sugar Cane League, Inc.  
**Remarks:** CP 80-1743 Sugarcane. Received June 18, 1990.
PI 542104-continued


PI 542105. Saccharum officinarum L. POACEAE Sugarcane

**Donated by**: Miller, J.D., Agricultural Research Service -- USDA, Sugarcane Field Station, Canal Point, Florida, United States; and Florida Agr. Exp. Sta.; and Florida Sugar Cane League, Inc..

**remarks**: CP 78-1628 Sugarcane. Received June 18, 1990.


PI 542106 to 542111. Zea mays L. subsp. mays POACEAE Corn

**Donated by**: Johannessen, C., Dept. of Geography, University of Oregon, Eugene, Oregon, United States. Received September 20, 1985.

PI 542106 **origin**: Bhutan. **cultivar**: BHUTAN #25. **other id**: Ames 8345. Cultivar. Seed.

PI 542107 **origin**: Bhutan. **cultivar**: BHUTAN #30A. **other id**: Ames 8342. **remarks**: Flint-yellow T-D. Cultivar. Seed.

PI 542108 **origin**: Bhutan. **cultivar**: BHUTAN #42. **other id**: Ames 8341. Cultivar. Seed.


PI 542112 to 542123. Citrullus lanatus (Thunb.) Matsum. & Nakai

CUCURBITACEAE Watermelon

Donated by: Mithen, R., IBPGR, Harare, Zambabwe; and Terry, J., Royal Botanic Gardens Kew, Wakehurst Place, Haywards Heath, England RH17 6TN, United Kingdom; and Kalake, E., National Herbarium, Gaborone, Botswana. remarks: Received through IBPGR, Rome, Italy. Received November 29, 1989.


93
PI 542112 to 542123-continued

PI 542122  
donor id: 585.  
origin: Botswana.  
local name: Tsama.  
collector id: 585.  
locality: Coarse sand, bushland, plain, 39km S Tsane, SE Kgalagadi Province.  
latitude: 24 deg. 22 min. S.  
longitude: 21 deg. 52 min. W.  
elevation: 1100m.  
remarks: One plant sampled. Soil pH 7.0. Associated species: Rhus, Grewia and Schimia.  
Wild.  
Seed.

PI 542123  
donor id: 611.  
origin: Botswana.  
collector id: 611.  
locality: Coarse sand, bushland, plain, 50km SW Maun, Ngamiland Province.  
latitude: 20 deg. 16 min. S.  
longitude: 23 deg. 05 min. W.  
elevation: 930m.  
Wild.  
Seed.

PI 542124.  
UNIDENT-Cucurbitaceae sp.  
CUCURBITACEAE

Donated by: Mithen, R., IBPGR, Harare, Zambabwe; and Terry, J., Royal Botanic Gardens Kew, Wakehurst Place, Haywards Heath, England RH17 6TN, United Kingdom; and Kalake, E., National Herbarium, Gaborone, Botswana.  
remarks: Received through IBPGR, Rome, Italy.  
Received November 29, 1989.

donor id: JT20.  
origin: Botswana.  
collector id: JT20.  
locality: 4km from Tsane to Motokwe, Kweneng District.  
latitude: 23 deg. 25 min. S.  
longitude: 24 deg. 00 min. W.  
elevation: 90m.  
remarks: One plant sampled out of a population of 5.  
received as: Corallocarpus triangularis.  
Wild.  
Seed.

PI 542125 to 542133.  
Cucumis africanus L. F.  
CUCURBITACEAE

Donated by: Mithen, R., IBPGR, Harare, Zambabwe; and Terry, J., Royal Botanic Gardens Kew, Wakehurst Place, Haywards Heath, England RH17 6TN, United Kingdom; and Kalake, E., National Herbarium, Gaborone, Botswana.  
remarks: Received through IBPGR, Rome, Italy.  
Received November 29, 1989.

PI 542125  
donor id: JT31.  
origin: Botswana.  
collector id: JT31.  
locality: 3km from Kalkfontein to Mamuno, Ghanzi district.  
latitude: 20 deg. 50 min. S.  
longitude: 22 deg. 05 min. W.  
elevation: 1090m.  
remarks: Fruits about 5cm long, soft spiny with brown longitudinal stripes. One plant sampled out of a population of 10.  
Wild.  
Seed.


PI 542125 to 542133-continued


PI 542134 to 542135. Cucumis anguria L. CUCURBITACEAE West Indian gherkin

Donated by: Mithen, R., IBPGR, Harare, Zambabwe; and Terry, J., Royal Botanic Gardens Kew, Wakehurst Place, Haywards Heath, England RH17 6TN, United Kingdom; and Kalake, E., National Herbarium, Gaborone, Botswana. remarks: Received through IBPGR, Rome, Italy. Received November 29, 1989.


PI 542136 to 542137. Cucumis sp. CUCURBITACEAE

Donated by: Mithen, R., IBPGR, Harare, Zambabwe; and Terry, J., Royal Botanic Gardens Kew, Wakehurst Place, Haywards Heath, England RH17 6TN, United Kingdom; and Kalake, E., National Herbarium, Gaborone, Botswana. remarks: Received through IBPGR, Rome, Italy. Received November 29, 1989.
PI 542136 to 542137-continued


PI 542138. Momordica balsamina L. CUCURBITACEAE

Donated by: Mithen, R., IBPGR, Harare, Zimbabwe; and Terry, J., Royal Botanic Gardens Kew, Wakehurst Place, Haywards Heath, England RH17 6TN, United Kingdom; and Kalake, E., National Herbarium, Gaborone, Botswana. remarks: Received through IBPGR, Rome, Italy. Received November 29, 1989.


PI 542139. Pennisetum sp. POACEAE

Donated by: Mithen, R., IBPGR, Harare, Zimbabwe; and Terry, J., Royal Botanic Gardens Kew, Wakehurst Place, Haywards Heath, England RH17 6TN, United Kingdom; and Kalake, E., National Herbarium, Gaborone, Botswana. remarks: Received through IBPGR, Rome, Italy. Received November 29, 1989.

PI 542140 to 542143. Rhynchosia totta (Thunb.) DC. FABACEAE

**Donated by:** Mithen, R., IBPGR, Harare, Zambabwe; and Terry, J., Royal Botanic Gardens Kew, Wakehurst Place, Haywards Heath, England RH17 6TN, United Kingdom; and Kalake, E., National Herbarium, Gaborone, Botswana. **remarks:** Received through IBPGR, Rome, Italy. Received November 29, 1989.

**PI 542140**

**donor id:** JT 40. **origin:** Botswana. **collected:** March 25, 1988. **collector id:** JT 40. **locality:** 7km from turn of E Ncojane to Lokolan E Road, Kgalagadi District. **latitude:** 21 deg. 35 min. S. **longitude:** 23 deg. 45 min. E. **elevation:** 1120m. **remarks:** One plant sampled. Wild. Seed.

**PI 542141**

**donor id:** 505. **origin:** Botswana. **collected:** March 13, 1988. **collector id:** 505. **locality:** Sandy loam, bush-grassland, valley slope, S slope Kgale Hill, 10km S Gaborone, SE Gaborone Province. **latitude:** 24 deg. 41 min. S. **longitude:** 25 deg. 52 min. E. **elevation:** 1100m. **remarks:** Three plants sampled out of 4. Soil pH 6.5-7. Associated species: Digitaria and Panicum. Wild. Seed.

**PI 542142**

**donor id:** 508. **origin:** Botswana. **collected:** March 16, 1988. **collector id:** 508. **locality:** Sandy loam, grassland, plain, 5.4km E of Molepololg, SE Kweneng Province. **latitude:** 24 deg. 25 min. S. **longitude:** 25 deg. 30 min. E. **elevation:** 1100m. **remarks:** One plant sampled out of a population of 5. Soil pH 6.5-7. Associated species: Aristrida and Zornia. Wild. Seed.

**PI 542143**

**donor id:** 579. **origin:** Botswana. **collected:** March 25, 1988. **collector id:** 579. **locality:** Coarse sand, bushland, plain, 110km ESE of Niojane, SW Kgalagadi Province. **latitude:** 23 deg. 21 min. S. **longitude:** 21 deg. 07 min. 1. **elevation:** 1050m. **remarks:** Ten plants sampled. Soil pH 7.0. Associated species: Acacia and Digitaria. Wild. Seed.

**PI 542144 to 542170. Aegilops biuncialis Vis. POACEAE Aegilops**

**Donated by:** Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

**PI 542144**

**donor id:** 84TK104-0051. **origin:** Turkey. **collected:** June 17, 1984. **collector id:** 84TK104-0051. **locality:** Diyarbakir Province. 4km north of Dicle. **elevation:** 925m. **received as:** Triticum macrochaetum. Annual. Wild. Seed.


PI 542152  donor id: 84TK147-0004.  origin: Turkey.  collected: June 23, 1984.  collector id: 84TK147-0004.  locality: Konya Province. 10 km west of Ilgin, going west from Konya.  elevation: 1200m.  received as: Triticum macrochaetum.  Annual.  Wild.  Seed.

PI 542154


PI 542155


PI 542156


PI 542157


PI 542158

donor id: 84TK159-0040. origin: Turkey. collected: June 28, 1984. collector id: 84TK159-0040. locality: Denizli Province. 25km south of Sarigol or 10km north of Buldan junction. elevation: 275m. received as: Triticum macrochaetum. Annual. Wild. Seed.

PI 542159

donor id: 84TK162-0057. origin: Turkey. collected: June 28, 1984. collector id: 84TK162-0057. locality: Manisa Province. 2km south of Sarigol, on hill with grass and shrubs. elevation: 305m. received as: Triticum macrochaetum. Annual. Wild. Seed.

PI 542160

donor id: 84TK201-0009. origin: Turkey. collected: July 05, 1984. collector id: 84TK201-0009. locality: Izmir Province. 500m east of Aliaga, east edge of village. elevation: 60m. received as: Triticum macrochaetum. Annual. Wild. Seed.


PI 542144 to 542170-continued


PI 542171.  Aegilops columnaris Zhuk.  POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States.  Received October 01, 1989.


PI 542172 to 542177.  Aegilops comosa Sibth. & Smith  POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States.  Received October 01, 1989.


PI 542177  donor id: 84TK081-0058. origin: Turkey. collected: June 15, 1984. collector id: 84TK081-0058. locality: Adiyaman Province 20km west of village of Danlacik, (a very small village) 9km north of Kahta junction. elevation: 1000m. received as: Triticum comosum. Annual. Wild. Seed.

PI 542178. Aegilops crassa Boiss. POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.


PI 542179. Aegilops cylindrica Host POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.
PI 542179-continued

donor id: 84TK206-0004. origin: Turkey. collected: July 05, 1984. collector id: 84TK206-0004. locality: Balikesir Province. 6km north of Ayvalik. elevation: 4m. received as: Triticum cylindricum. Annual. Wild. Seed.

PI 542180 to 542190. Aegilops geniculata Roth subsp. geniculata POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

PI 542180 donor id: 84TK104-0049-1. origin: Turkey. collected: June 17, 1984. collector id: 84TK104-0049-1. locality: Diyarbakir Province. 4km northeast of Dicle. elevation: 925m. received as: Triticum ovatum. Annual. Wild. Seed.


PI 542185 donor id: 84TK201-0005. origin: Turkey. collected: July 05, 1984. collector id: 84TK201-0005. locality: Izmir Province. 500m east of Aliaga, east edge of village. elevation: 60m. received as: Triticum ovatum. Annual. Wild. Seed.
PI 542180 to 542190-continued


PI 542190 donor id: 84TK208-0004. origin: Turkey. collected: July 05, 1984. collector id: 84TK208-0004. locality: Canakkale Province. 22km southeast of Ayvacik. elevation: 50m. received as: Triticum ovatum. Annual. Wild. Seed.

PI 542191. Aegilops hybrid POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.


PI 542192 to 542193. Aegilops juvenalis (Thell.) Eig POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.
PI 542192 to 542193-continued


PI 542194 to 542195. Aegilops kotschyi Boiss.  POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.


PI 542196. Aegilops longissima Schweinf. & Muschl.  POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

PI 542197 to 542210. Aegilops markgrafii (Greuter) Hammer var. markgrafii POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.


PI 542198 donor id: 84TK105-0055. origin: Turkey. collected: June 17, 1984. collector id: 84TK105-0055. locality: Diyarbakir Province. 3km southwest of Dicle. elevation: 950m. received as: Triticum dichasians. Annual. Wild. Seed.

PI 542199 donor id: 84TK116-0103. origin: Turkey. collected: June 18, 1984. collector id: 84TK116-0103. locality: Urfa Province. 8km southwest of Hivan, along roadside just west of a small village. elevation: 625m. received as: Triticum dichasians. Annual. Wild. Seed.


PI 542205  donor id: 84TK159-0036.  origin: Turkey.  collected: June 28, 1984.  collector id: 84TK159-0036.  locality: Denizli Province. 25km south of Sarigol or 10km north of Buldan junction.  elevation: 275m.  received as: Triticum dichasians.  Annual.  Wild.  Seed.


PI 542207  donor id: 84TK201-0008.  origin: Turkey.  collected: July 05, 1984.  collector id: 84TK201-0008.  locality: Izmir Province. 500m east of Aliaga, east edge of village.  elevation: 60m.  received as: Triticum dichasians.  Annual.  Wild.  Seed.

PI 542208  donor id: 84TK207-0004.  origin: Turkey.  collected: July 05, 1984.  collector id: 84TK207-0004.  locality: Balikesir Province. 6km southeast of Edremit.  elevation: 20m.  received as: Triticum dichasians.  Annual.  Wild.  Seed.


PI 542211 to 542230.  Aegilops neglecta Req. ex Bertol.  POACEAE

Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States.  Received October 01, 1989.
**PI 542211 to 542230—continued**

**PI 542211**
- **donor id:** 84TK109-0076.
- **origin:** Turkey.
- **collected:** June 18, 1984.
- **collector id:** 84TK109-0076.
- **locality:** Diyarbakir Province. 25km southwest of Diyarbakir.
- **elevation:** 1000m.
- **received as:** Triticum triaristatum.
- **Annual. Wild. Seed.**

**PI 542212**
- **donor id:** 84TK132-0004.
- **origin:** Turkey.
- **collected:** June 21, 1984.
- **collector id:** 84TK132-0004.
- **locality:** Urfa Province. 3km southeast of junction of Mt. Karacadag road-Diyarbakir highway.
- **elevation:** 1350m.
- **received as:** Triticum triaristatum.
- **Annual. Wild. Seed.**

**PI 542213**
- **donor id:** 84TK138-0021.
- **origin:** Turkey.
- **collected:** June 21, 1984.
- **collector id:** 84TK138-0021.
- **locality:** Adiyaman Province. 9km north of Ninnrute road (to Narince village) and Diyarbakir junction. Dry river bed.
- **elevation:** 500m.
- **received as:** Triticum triaristatum.
- **Annual. Wild. Seed.**

**PI 542214**
- **donor id:** 84TK149-0002.
- **origin:** Turkey.
- **collected:** June 23, 1984.
- **collector id:** 84TK149-0002.
- **locality:** Usak Province. 10km east of Usak.
- **elevation:** 900m.
- **received as:** Triticum triaristatum.
- **Annual. Wild. Seed.**

**PI 542215**
- **donor id:** 84TK149-0003.
- **origin:** Turkey.
- **collected:** June 23, 1984.
- **collector id:** 84TK149-0003.
- **locality:** Usak Province. 10km east of Usak.
- **elevation:** 900m.
- **received as:** Triticum triaristatum.
- **Annual. Wild. Seed.**

**PI 542216**
- **donor id:** 84TK154-0013.
- **origin:** Turkey.
- **collected:** June 27, 1984.
- **collector id:** 84TK154-0013.
- **locality:** Izmir Province. Agean Agricultural Research Institute.
- **elevation:** 30m.
- **received as:** Triticum triaristatum.
- **Annual. Wild. Seed.**

**PI 542217**
- **donor id:** 84TK154-0016.
- **origin:** Turkey.
- **collected:** June 27, 1984.
- **collector id:** 84TK154-0016.
- **locality:** Izmir Province. Agean Agricultural Research Institute.
- **elevation:** 30m.
- **received as:** Triticum triaristatum.
- **Annual. Wild. Seed.**

**PI 542218**
- **donor id:** 84TK154-0017.
- **origin:** Turkey.
- **collected:** June 27, 1984.
- **collector id:** 84TK154-0017.
- **locality:** Izmir Province. Agean Agricultural Research Institute.
- **elevation:** 30m.
- **received as:** Triticum triaristatum.
- **Annual. Wild. Seed.**
PI 542219  Aegilops markgrafii (Greuter) Hammer var. markgrafii

POACEAE Aegilops


PI 542225  donor id: 84TK159-0046. origin: Turkey. collected: June 28, 1984. collector id: 84TK159-0046. locality: Denizli Province. 25km south of Sarigol, about 10km north of Buldan junction. elevation: 275m. received as: Triticum triaristatum. Annual. Wild. Seed.


PI 542231 to 542234. Aegilops neglecta Req. ex Bertol. subsp. neglecta

POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

PI 542231 donor id: 84TK104-0050-1. origin: Turkey. collected: June 17, 1984. collector id: 84TK104-0050-1. locality: Diyarbakir Province. 4km northeast of Dicle. elevation: 925m. received as: Triticum neglectum. Annual. Wild. Seed.


PI 542231 to 542234-continued


PI 542235. Aegilops neglecta subsp. recta (Zhuk.) Hammer POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

donor id: 84TK094-0002. origin: Turkey. collected: June 17, 1984. collector id: 84TK094-0002. locality: Diyarbakir Province. 18km northeast of Diyarbakir. elevation: 800m. received as: Triticum triaristatum ssp. recta. Annual. Wild. Seed.

PI 542236. Aegilops peregrina subsp. cylindrostachys (Eig & Feinbrun) Hammer POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.


PI 542237. Aegilops sharonensis Eig POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.
PI 542237-continued

**donor id:** 84TK154-0045. **origin:** Turkey. **collected:** June 27, 1984. **collector id:** 84TK154-0045. **locality:** Izmir Province. Aegean Agricultural Research Institute. **elevation:** 30m. **received as:** Triticum sharonense. Annual. Wild. Seed.

PI 542238. *Aegilops speltoides Tausch* POACEAE Aegilops

**Donated by:** Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

**donor id:** 84TK085-0003. **origin:** Turkey. **collected:** June 16, 1984. **collector id:** 84TK085-0003. **locality:** Diyarbakir Province. Regional Agricultural Research Station. **elevation:** 820m. **received as:** Triticum speltoides. Annual. Wild. Seed.

PI 542239 to 542258. *Aegilops speltoides var. ligustica* (Savign.) Fiori POACEAE Aegilops

**Donated by:** Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

**PI 542239** **donor id:** 84TK106-0067. **origin:** Turkey. **collected:** June 17, 1984. **collector id:** 84TK106-0067. **locality:** Diyarbakir Province. 8km southwest of Dicle. **elevation:** 950m. **received as:** Triticum speltoides ssp. ligusticum. Annual. Wild. Seed.

**PI 542240** **donor id:** 84TK108-0072. **origin:** Turkey. **collected:** June 17, 1984. **collector id:** 84TK108-0072. **locality:** Diyarbakir Province. 7km north of Diyarbakir on roadside. **elevation:** 650m. **received as:** Triticum speltoides ssp. ligusticum. Annual. Wild. Seed.

**PI 542241** **donor id:** 84TK109-0074. **origin:** Turkey. **collected:** June 18, 1984. **collector id:** 84TK109-0074. **locality:** Diyarbakir Province. 25km southwest of Diyarbakir. **elevation:** 1000m. **received as:** Triticum speltoides ssp. ligusticum. Annual. Wild. Seed.


PI 542244 donor id: 84TK118-0111A. origin: Turkey. collected: June 18, 1984. collector id: 84TK118-0111A. locality: Urfa Province. 7km northeast of Harrun-Urfa junction. elevation: 350m. received as: Triticum speltoides ssp. ligusticum. Annual. Wild. Seed.


<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>542250</td>
<td>84TK126-0039</td>
<td></td>
<td>Urfa Province. 36km north of Ceylanpinar.</td>
<td>425m.</td>
<td>Triticum speltoides ssp. ligusticum.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>542251</td>
<td>84TK128-0031</td>
<td></td>
<td>Urfa Province. 20.5km north of Ceylanpinar.</td>
<td>375m.</td>
<td>Triticum speltoides ssp. ligusticum.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>542252</td>
<td>84TK129-0033</td>
<td></td>
<td>Urfa Province. On state farm at Ceylanpinar.</td>
<td>380m.</td>
<td>Triticum speltoides ssp. ligusticum.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>542253</td>
<td>84TK129-0034</td>
<td></td>
<td>Urfa Province. On state farm at Ceylanpinar.</td>
<td>380m.</td>
<td>Triticum speltoides ssp. ligusticum.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>542254</td>
<td>84TK130-0035</td>
<td></td>
<td>Diyarbakir Province. At water source (spring), 7km south of Cinar, south of Diyarbakir.</td>
<td>625m.</td>
<td>Triticum speltoides ssp. ligusticum.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>542255</td>
<td>84TK154-0010</td>
<td></td>
<td>Izmir Province. Agean Agricultural Research Institute.</td>
<td>30m.</td>
<td>Triticum speltoides ssp. ligusticum.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>542256</td>
<td>84TK082-0059</td>
<td></td>
<td>Adiyaman Province. 3km north of Damlacik.</td>
<td>725m.</td>
<td>Triticum speltoides ssp. ligusticum.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>542257</td>
<td>84TK093-0026</td>
<td></td>
<td>Diyarbakir Province. 18km southwest of Diyarbakir.</td>
<td>800m.</td>
<td>Triticum speltoides ssp. ligusticum.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PI 542258  
donor id: 84TK098-0021B.  
origin: Turkey.  
collected: June 17, 1984.  
collector id: 84TK098-0021B.  
locality: Diyarbakir Province.  
4km north of Diyarbakir-Bangol road junction.  
elevation: 875m.  
received as: Triticum speltoides ssp. ligusticum.  
Annual.  Wild.  Seed.

PI 542259 to 542276.  
Aegilops speltoides Tausch var. speltoides  
POACEAE  Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States.  
Received October 01, 1989.

PI 542259  
donor id: 84TK109-0078.  
origin: Turkey.  
collected: June 18, 1984.  
collector id: 84TK109-0078.  
locality: Diyarbakir Province.  
25km southwest of Diyarbakir.  
elevation: 1000m.  
received as: Triticum speltoides var. aucheri.  
Annual.  Wild.  Seed.

PI 542260  
donor id: 84TK117-0108.  
origin: Turkey.  
collected: June 18, 1984.  
collector id: 84TK117-0108.  
locality: Urfa Province.  
8km north of Urfa.  
elevation: 600m.  
received as: Triticum speltoides var. aucheri.  
Annual.  Wild.  Seed.

PI 542261  
donor id: 84TK118-0110.  
origin: Turkey.  
collected: June 18, 1984.  
collector id: 84TK118-0110.  
locality: Urfa Province.  
7km northeast of Harrun-Urfa junction.  
elevation: 350m.  
received as: Triticum speltoides var. aucheri.  
Annual.  Wild.  Seed.

PI 542262  
donor id: 84TK120-0002.  
origin: Turkey.  
collected: June 19, 1984.  
collector id: 84TK120-0002.  
locality: Urfa Province.  
North from Urfa, then northwest toward Bozova (3km northwest of junction toward Bozova).  
elevation: 700m.  
received as: Triticum speltoides var. aucheri.  
Annual.  Wild.  Seed.

PI 542263  
donor id: 84TK123-0015D.  
origin: Turkey.  
collected: June 19, 1984.  
collector id: 84TK123-0015D.  
locality: Urfa Province.  
42km east of Urfa.  
elevation: 600m.  
received as: Triticum speltoides var. aucheri.  
Annual.  Wild.  Seed.

PI 542264  
donor id: 84TK124-0016.  
origin: Turkey.  
collected: June 19, 1984.  
collector id: 84TK124-0016.  
locality: Urfa Province.  
48km east of Urfa.  
elevation: 625m.  
received as: Triticum speltoides var. aucheri.  
Annual.  Wild.  Seed.
PI 542259 to 542276-continued


PI 542274  donor id: 84TK081-0057.  origin: Turkey.  collected: June 15, 1984.  collector id: 84TK081-0057.  locality: Adiyaman Province. 20km west of Damlacik village, 9km north of Kahta junction.  elevation: 1000m.  received as: Triticum speltoides var. aucheri.  Annual.  Wild.  Seed.


PI 542277 to 542278. Aegilops tauschii Cosson subsp. tauschii POACEAE

Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.


118
PI 542279 to 542361. Aegilops triuncialis L. POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

PI 542279 donor id: 84TK100-0032. origin: Turkey. collected: June 17, 1984. collector id: 84TK100-0032. locality: Diyarbakir Province. 28 km north of Diyarbakir-Bingol road junction. elevation: 900 m. received as: Triticum triunciale. Annual. Wild. Seed.


PI 542281 donor id: 84TK102-0041. origin: Turkey. collected: June 17, 1984. collector id: 84TK102-0041. locality: Diyarbakir Province. 8 km east of Hani-Lice road junction. elevation: 1000 m. received as: Triticum triunciale. Annual. Wild. Seed.


PI 542283 donor id: 84TK104-0048. origin: Turkey. collected: June 17, 1984. collector id: 84TK104-0048. locality: Diyarbakir Province. 4 km northeast of Dicle. elevation: 925 m. received as: Triticum triunciale. Annual. Wild. Seed.


PI 542288 donor id: 84TK111-0092. origin: Turkey. collected: June 18, 1984. collector id: 84TK111-0092. locality: Urfa Province. 28km east of Siverek. elevation: 1050m. received as: Triticum triunciale. Annual. Wild. Seed.


PI 542290 donor id: 84TK116-0102. origin: Turkey. collected: June 18, 1984. collector id: 84TK116-0102. locality: Urfa Province. 8km southwest of Hivan, along side road, just west of a small village. elevation: 625m. received as: Triticum triunciale. Annual. Wild. Seed.


PI 542279 to 542361

**PI 542321**

**PI 542322**

**PI 542323**

**PI 542324**

**PI 542325**

**PI 542326**
donor id: 84TK159-0038. origin: Turkey. collected: June 28, 1984. collector id: 84TK159-0038. locality: Danizli Province. 25km south of Sarigol, or 10km north of Buldan junction. elevation: 275m. received as: Triticum triunciale. Annual. Wild. Seed.

**PI 542327**

**PI 542328**

**PI 542329**
donor id: 84TK162-0056. origin: Turkey. collected: June 28, 1984. collector id: 84TK162-0056. locality: Manisa Province. 2km south of Sarigol, on hill where grass and shrubs grow. elevation: 305m. received as: Triticum triunciale. Annual. Wild. Seed.

PI 542331  donor id: 84TK201-0006.  origin: Turkey.  collected: July 05, 1984.  collector id: 84TK201-0006.  locality: Izmir Province. 500m east of Aliaga, east edge of village.  elevation: 60m.  received as: Triticum triuncale. Annual. Wild. Seed.


PI 542339  donor id: 84TK208-0001.  origin: Turkey.  collected: July 05, 1984.  collector id: 84TK208-0001.  locality: Canakkale Province. 22km southeast of Ayvacık.  
  elevation:  50m.  received as: Triticum triunciale.  Annual. Wild. Seed.


<table>
<thead>
<tr>
<th>PI</th>
<th>donor id</th>
<th>origin</th>
<th>collected</th>
<th>collector id</th>
<th>locality</th>
<th>elevation</th>
<th>received as</th>
</tr>
</thead>
<tbody>
<tr>
<td>542348</td>
<td>84TK082-0061</td>
<td>Turkey</td>
<td>June 15, 1984</td>
<td>84TK082-0061</td>
<td>Adiyaman Province. 3km north of Damlacik village.</td>
<td>725m</td>
<td>Triticum triunciale</td>
</tr>
<tr>
<td>542349</td>
<td>84TK084-0068</td>
<td>Turkey</td>
<td>June 15, 1984</td>
<td>84TK084-0068</td>
<td>Adiyaman Province. 6km south of Narance village.</td>
<td>850m</td>
<td>Triticum triunciale</td>
</tr>
<tr>
<td>542350</td>
<td>84TK085-0002</td>
<td>Turkey</td>
<td>June 16, 1984</td>
<td>84TK085-0002</td>
<td>Diyarbakir Province. Regional Agricultural Research Station.</td>
<td>820m</td>
<td>Triticum triunciale</td>
</tr>
<tr>
<td>542351</td>
<td>84TK085-0004</td>
<td>Turkey</td>
<td>June 16, 1984</td>
<td>84TK085-0004</td>
<td>Diyarbakir Province. Regional Agricultural Research Station.</td>
<td>820m</td>
<td>Triticum triunciale</td>
</tr>
<tr>
<td>542352</td>
<td>84TK085-0015</td>
<td>Turkey</td>
<td>June 16, 1984</td>
<td>84TK085-0015</td>
<td>Diyarbakir Province. Regional Agricultural Research Station.</td>
<td>820m</td>
<td>Triticum triunciale</td>
</tr>
<tr>
<td>542353</td>
<td>84TK090-0020</td>
<td>Turkey</td>
<td>June 16, 1984</td>
<td>84TK090-0020</td>
<td>Urfa Province. 7km east of Karacadag road-Diyarbakir junction in route to Diyarbakir.</td>
<td>1200m</td>
<td>Triticum triunciale</td>
</tr>
<tr>
<td>542354</td>
<td>84TK091-0021</td>
<td>Turkey</td>
<td>June 16, 1984</td>
<td>84TK091-0021</td>
<td>Urfa Province. 38km southwest of Diyarbakir.</td>
<td>1100m</td>
<td>Triticum triunciale</td>
</tr>
<tr>
<td>542355</td>
<td>84TK093-0025</td>
<td>Turkey</td>
<td>June 16, 1984</td>
<td>84TK093-0025</td>
<td>Diyarbakir Province. 18km southwest of Diyarbakir.</td>
<td>800m</td>
<td>Triticum triunciale</td>
</tr>
</tbody>
</table>
PI 542356 donor id: 84TK094-0001. origin: Turkey. collected: June 17, 1984. collector id: 84TK094-0001. locality: Diyarbakir Province. 18km northeast of Diyarbakir. elevation: 800m. received as: Triticum triunciale. Annual. Wild. Seed.


PI 542359 donor id: 84TK097-0019. origin: Turkey. collected: June 17, 1984. collector id: 84TK097-0019. locality: Diyarbakir Province. 4km northwest of Bismil. elevation: 750m. received as: Triticum triunciale. Annual. Wild. Seed.


Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

PI 542363  
donor id: 84TK104-0049-4.  
origin: Turkey.  
collected: June 17, 1984.  
collector id: 84TK104-0049-4.  
locality: Diyarbakir Province. 4km northeast of Dicle.  
elevation: 925m.  
received as: Triticum umbellulatum. Annual. Wild. Seed.

PI 542364  
donor id: 84TK109-0077.  
origin: Turkey.  
collected: June 18, 1984.  
collector id: 84TK109-0077.  
locality: Diyarbakir Province. 25km southwest of Diyarbakir.  
elevation: 1000m.  
received as: Triticum umbellulatum. Annual. Wild. Seed.

PI 542365  
donor id: 84TK116-0104.  
origin: Turkey.  
collected: June 18, 1984.  
collector id: 84TK116-0104.  
locality: Urfa Province. 8km southwest of Hivan, along roadside, just west of a small village.  
elevation: 625m.  
received as: Triticum umbellulatum. Annual. Wild. Seed.

PI 542366  
donor id: 84TK140-0028.  
origin: Turkey.  
collector id: 84TK140-0028.  
locality: Adiyaman Province. 20km east of Golbasi roadside.  
elevation: 670m.  
received as: Triticum umbellulatum. Annual. Wild. Seed.

PI 542367  
donor id: 84TK143-0039.  
origin: Turkey.  
collector id: 84TK143-0039.  
locality: Kahramanmaras Province. 9km northeast of Pazarcik.  
elevation: 800m.  
received as: Triticum umbellulatum. Annual. Wild. Seed.

PI 542368  
donor id: 84TK144-0047.  
origin: Turkey.  
collector id: 84TK144-0047.  
locality: Kahramanmaras Province. 14km southeast of Kahramanmaras.  
elevation: 515m.  
received as: Triticum umbellulatum. Annual. Wild. Seed.

PI 542369  
donor id: 84TK148-0002.  
origin: Turkey.  
collected: June 23, 1984.  
collector id: 84TK148-0002.  
locality: Usak Province. 3km east of Guney, 55km east of Usak or 38km west of Afyon.  
elevation: 1250m.  
received as: Triticum umbellulatum. Annual. Wild. Seed.

PI 542370  
donor id: 84TK152-0002.  
origin: Turkey.  
collected: June 1984.  
collector id: 84TK152-0002.  
locality: Izmir Province. Bergaman stop 1, medical center, on tour.  
received as: Triticum umbellulatum. Annual. Wild. Seed.


donor id: 84TK159-0039. origin: Turkey. collected: June 28, 1984. collector id: 84TK159-0039. locality: Denizli Province. 25km south of Sarigol, about 10km north of Buldan junction. elevation: 275m. received as: Triticum umbellulatum. Annual. Wild. Seed.


PI 542385.  Aegilops ventricosa Tausch  POACEAE Aegilops

Donated by: Kimber, G., University of Missouri, Department of Agronomy, 210 Curtis Hall, Columbia, Missouri, United States; and Metzger, R.J., Department of Plant Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. Received October 01, 1989.

PI 542386. Lactuca sativa L. ASTERACEAE Lettuce


PI 542387. Pisum sativum L. FABACEAE Pea

Donated by: Nestec S.A., United States. Received July 03, 1990.


PI 542388. Phaseolus vulgaris L. FABACEAE Snap bean

Donated by: Rogers Brothers Seed Co., United States. Received July 03, 1990.


PI 542389. Phaseolus vulgaris L. FABACEAE Snap bean

Donated by: Rogers Brothers Seed Co., United States. Received July 03, 1990.


PI 542390. Lycopersicon esculentum Miller SOLANACEAE Tomato

Donated by: Ferry-Morse Seed Co., United States. Received July 03, 1990.


PI 542391. Hordeum vulgare L. POACEAE Barley

PI 542391-continued


PI 542392. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Latham Seed Co., United States. Received July 03, 1990.


PI 542393. Glycine max (L.) Merr. FABACEAE Soybean


PI 542394. Oryza sativa L. POACEAE Rice

Donated by: Rice Researchers, Inc., United States. Received July 03, 1990.


PI 542395. Oenothera lipsiensis Rostanski & Gutte ONAGRACEAE Evening primrose

Donated by: Scotia Pharmaceuticals Limited, United States. Received July 03, 1990.

PI 542396. Apium graveolens L. APIACEAE Celery

Donated by: Pybas Vegetable Seed Co., United States. Received July 03, 1990.


PI 542397. Gossypium barbadense L. MALVACEAE Cotton

Donated by: Chaney Ranch Research, United States. Received July 03, 1990.


PI 542398. Gossypium hirsutum L. MALVACEAE Cotton

Donated by: Stoneville Pedigree Seed Co., United States. Received July 03, 1990.


PI 542399. Glycine max (L.) Merr. FABACEAE Soybean


PI 542400 to 542401. Triticum aestivum L. POACEAE Common wheat

PI 542400 to 542401-continued


PI 542401  origin: United States.  cultivar: WA7527.  pedigree: Tres/Tyee(2 lines);Tres/Suwon 92/6*/Omar(1 line);Tres/Suwon 92/6*Omar/2629/3*Omar(2);Tres/Suwon 92/6*ON/Iblis/2*Omar(1 line)Tres/14/5*Omar/Ministre/2*Omar(2 lines));Tres/Suwon 92/6*Omar/Druchamp/3*Omar(1 line);Tres Cp(1 line).  remarks: Soft, white, winter club multiline of 10 components. Awnless. Glume white Rht2 semidwarfs. Heterogeneous for resistance to diseases caused by Puccinia striiformis, P. recondita and Erysiphe graminis. Kernels white, soft, short, ovate to oval; germ small; crease mid-wide, cheeks rounded, heading date, straw strength, cold tolerance, emergence, milling and baking quality like Tres. Winter Annual. Breeding Material. Seed.

PI 542402 to 542404. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Orf, J.H., University of Minnesota, St. Paul, Minnesota, United States. Received June 25, 1990.

PI 542403  
**origin:** United States.  
**origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota 55100.  
**cultivar:** Dawson.  
**pedigree:** Evans x M63-217Y M63-217Y is a yellow hilum near-isogenic sib of 'Hodgson'.  
**other id:** PVP 8400053.  
**source:** Certificate in force.  
**group:** PVPO.  
**other id:** CV-182.  
**group:** CSR-SOYBEAN.  
**other id:** M70-128E.  
**source:** Prior designation.  

PI 542404  
**origin:** United States.  
**origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota 55100.  
**cultivar:** Ozzie.  
**pedigree:** Wilkin x M63-217Y M63-217Y is a yellow hilum near-isogenic sib of 'Hodgson'.  
**other id:** PVP 8400052.  
**source:** Certificate in force.  
**group:** PVPO.  
**other id:** CV-179.  
**group:** CSR-SOYBEAN.  
**other id:** M71-43.  
**source:** Prior designation.  

PI 542405 to 542406. Sorghum bicolor (L.) Moench POACEAE Sudangrass

**Donated by:** York, J.O., Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas, United States.  
**remarks:** Two Sudangrass Parental Lines. Received June 29, 1990.

PI 542405  
**origin:** United States.  
**origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701.  
**cultivar:** R LINE AR2001.  
**pedigree:** Stoneville Syn. sudangrass selection.  
**other id:** PL-3.  
**group:** CSR-SUDANGRASS.  
**remarks:** Height averages 154cm. Flowers approximately 74 days after emergence. Panicle does not clear sheath entirely with 2.5cm remaining in sheath, open type. Glumes black. Mesocarp starchy. Grain has brownish white pericarp. Seed small, round, and thresh free of glumes. Course type sudangrass. Spring Annual. Breeding Material. Seed.
PI 542405 to 542406-continued

PI 542406

PI 542407 to 542415. Sorghum bicolor (L.) Moench POACEAE Sorghum


PI 542407

PI 542408

PI 542409
PI 542410  
**origin:** United States.  
**origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701.  
**cultivar:** R LINE AK2401.  
**pedigree:** Wiley/E-26.  
**other id:** PL-226.  
**group:** CSR-SORGHUM.  
**remarks:** Height averages 190cm. Flowers approximately 87 days after emergence. Panicle exertion above flag leaf (11.5cm), open type. Glumes black. Mesocarp starchy. Grain brownish white pericarp, brown testa. Spring Annual. Breeding Material. Seed.

PI 542411  
**origin:** United States.  
**origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701.  
**cultivar:** R LINE AR2402.  
**pedigree:** Wiley/E-26.  
**other id:** PL-227.  
**group:** CSR-SORGHUM.  

PI 542412  
**origin:** United States.  
**origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701.  
**cultivar:** R LINE AR2403.  
**pedigree:** Tracy/E-26.  
**other id:** PL-228.  
**group:** CSR-SORGHUM.  
**remarks:** Height averages 170cm. Flowers approximately 78 days after emergence. Panicle exertion slightly above flag leaf (3.5cm) open type. Glumes black. Mesocarp starchy. Grain brownish white pericarp, brown testa. Spring Annual. Breeding Material. Seed.

PI 542413  
**origin:** United States.  
**origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701.  
**cultivar:** R LINE AR2404.  
**pedigree:** Tracy/E-26.  
**other id:** PL-229.  
**group:** CSR-SORGHUM.  

PI 542414  
**origin:** United States.  
**origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701.  
**cultivar:** R LINE AR2405.  
**pedigree:** Tracy/E-26.  
**other id:** PL-230.  
**group:** CSR-SORGHUM.  
**remarks:** Height averages 170cm. Flowers approximately 90 days after emergence. Panicle exertion above flag leaf (7.5cm), open type. Glumes black. Mesocarp starchy. Grain brownish white pericarp, brown testa. Spring Annual. Breeding Material. Seed.
PI 542415  
**origin:** United States.  **origin institute:** Arkansas Agr. Exp. Sta., University of Arkansas, Fayetteville, Arkansas 72701.  **cultivar:** R LINE AR2406.  **pedigree:** Wiley/F-26.  
**other id:** PL-231.  **group:** CSR-SORGHUM.  **remarks:** Height averages 180cm. Flowers approximately 81 days after emergence. Panicle exertion well above flag leaf (13cm), open type. Glumes black. Mesocarp starchy. Grain has brownish-white pericarp, brown testa. Spring Annual. Breeding Material. Seed.

PI 542416 to 542431. Antirrhinum majus L. SCROPHULARIACEAE Snapdragon

**Donated by:** Harte, C, University of Koln, Institut fur Entwicklungsphysiologie, Gyrhofstr. 17, D 5000 Koln 41, Germany, Federal Rep of. Received June 12, 1990.

PI 542416  
**donor id:** 88/12.  **origin:** Germany, Federal Rep of.  
**cultivar:** STENOPHYLLA.  **remarks:** Seeds originally obtained from the stocks of Erwin Baur -- see book of H. Stubbe. Plants narrow long leaves. Mutants used in experiments. Genetic Material. Seed.

PI 542417  
**donor id:** 88/1.  **origin:** Germany, Federal Rep of.  
**cultivar:** SIPPE 50.  **remarks:** Standard type in experiments. Isolated by Erwin Baur. Plants 30-60cm tall, self-fertile, but do not self pollinate. Germination light dependent, best results on moist filter paper in petri-dishes, within one week at approx. 20 deg. C. Quantitative long-day plant, flowering at 16 hours daylight. Susceptible to Antirrhinum-rust fungus in the field. Isolation of inflorescence by paper bag necessary to prevent. Genetic Material. Seed.

PI 542418  
**origin:** Germany, Federal Rep of.  
**cultivar:** IMMINUTA.  **remarks:** Originally obtained from the stocks of Erwin Baur. Plants small leaves narrow. Flowers smaller than standard type. Used in experiments on leaf development. Genetic Material. Seed.

PI 542419  
**origin:** Germany, Federal Rep of.  
**cultivar:** LOREFORMIS.  **remarks:** Sees originally obtained from stocks of H. Stubbe. Propagated by artificial self pollination. Plants small. Leaves narrow, some small dwarfs with limited viability depending on environmental conditions. Genetic Material. Seed.

PI 542420  
**origin:** Germany, Federal Rep of.  
**cultivar:** ARRECTA.  **remarks:** Seeds originally obtained from stocks of H. Stubbe. (Erwin Baur). Morphology and size of the leaves different from standard type. Mutant used in experiments on leaf development. Genetic Material. Seed.


PI 542426 **origin**: Germany, Federal Rep of. **cultivar**: GRAMINIFOLIA. **remarks**: Seeds originally obtained from stocks of H. Stubbe. (Gatersleben) from stocks of Erwin Baur. Plants smaller than standard type, flowering later. Leaves very narrow. Malformations of flowers. Seed set after artificial self pollination less than in standard type. Pollination of several flowers on 5-10 plants necessary to obtain sufficient number of seeds. Mutant used in experiments on. Genetic Material. Seed.

PI 542416 to 542431

PI 542428  
**origin:** Germany, Federal Rep of.  **cultivar:** SERPENTINA.  
**remarks:** Seeds originally obtained from stocks of H. Stubbe. Stems crooked. Leaves and flowers normal.  
Genetic Material. Seed.

PI 542429  
**origin:** Germany, Federal Rep of.  **origin institute:** Zentralinstitut fur Genetik und, Kulturpflanzensforschung der, Akademie der Wissenschaften der DDR, Gatersleben.  
**cultivar:** TENUIS.  
**remarks:** Propagated by artificial self pollination. Plants small with narrow leaves. Mutant used in experiments on leaf development. Genetic Material. Seed.

PI 542430  
**origin:** Germany, Federal Rep of.  **cultivar:** AMBIGUA.  
**remarks:** Originally obtained from stocks of Erwin Baur. Plants somewhat smaller than standard type. Leaves abnormal. Inflorescence like needles, variable depending on photoperiod and temperature. Used in experiments on leaf development. Genetic Material. Seed.

PI 542431  
**origin:** Germany, Federal Rep of.  **cultivar:** DELILA CAECA.  
**remarks:** Originally obtained from stocks of Erwin Baur. Leaf growth and flower morphology normal. Delila is lack of anthocyanin in lower part of flower. Caeca is lack of yellow spot on lower lip of corolla. Used as "normal" reference type in some experiments on development of mutants in Antirrhinum. Genetic Material. Seed.

PI 542432 to 542465. Triticum aestivum L. POACEAE Common wheat

**Donated by:** Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.

PI 542432  
**donor id:** H86-706.  **origin:** United States.  

PI 542433  
**donor id:** H86-705.  **origin:** United States.  
**remarks:** Line carries BT 10 and R3 (chromosome 3B) for red seed. Annual. Cultivar. Seed.

PI 542434  
**donor id:** H82-728.  **origin:** United States.  
**cultivar:** PATO.  
**remarks:** Tolerance to excess water and wet soils. Annual. Cultivar. Seed.

PI 542435  
**donor id:** H83-1317-4.  **origin:** United States.  
**pedigree:** T12/Ewion.  
PI 542436  **donor id:** H85-313.  **origin:** United States.  **cultivar:** IAC 5.  **remarks:** Acid soil tolerant.  **Annual.**  **Cultivar.**  **Seed.**

PI 542437  **donor id:** H85-317.  **origin:** United States.  **cultivar:** C-17.  **remarks:** Intermediate level of tolerance to acid soils.  **Annual.**  **Cultivar.**  **Seed.**

PI 542438  **donor id:** H83-514.  **origin:** United States.  **other id:** TSTS 3D.  **remarks:** White seed, Timstein chromosome 3D substituted into Chinese Spring Wheat, origionally from E.R. Sears.  **Annual.**  **Breeding Material.**  **Seed.**

PI 542439  **donor id:** H85-307.  **origin:** United States.  **cultivar:** MARFED DWARF.  **remarks:** Plants very dwarf type originally from C. Konzak.  **received as:** TSTS 3D/Aegilops mutica.  **Annual.**  **Cultivar.**  **Seed.**

PI 542440  **donor id:** H85-310.  **origin:** United States.  **cultivar:** HYSLOP DWARF.  **remarks:** Plants dwarf type (50cm).  **Annual.**  **Cultivar.**  **Seed.**

PI 542441  **donor id:** M86-37.  **origin:** Yugoslavia.  **other id:** L263.85.  **remarks:** Introduction from Novi Sad.  **Annual.**  **Breeding Material.**  **Seed.**

PI 542442  **donor id:** M86-38.  **origin:** Yugoslavia.  **other id:** L264.85.  **remarks:** Introduction from Novi Sad.  **Annual.**  **Breeding Material.**  **Seed.**

PI 542443  **donor id:** M86-36.  **origin:** Yugoslavia.  **other id:** L267.85.  **remarks:** Introduction from Novi Sad.  **Annual.**  **Breeding Material.**  **Seed.**

PI 542444  **donor id:** M86-40.  **origin:** Yugoslavia.  **other id:** L301.85.  **remarks:** Introduction from Novi Sad.  **Annual.**  **Breeding Material.**  **Seed.**

PI 542445  **donor id:** M86-39.  **origin:** Yugoslavia.  **other id:** L768.85.  **remarks:** Introduction from Novi Sad.  **Annual.**  **Cultivar.**  **Seed.**

PI 542446  **donor id:** H81-639.  **origin:** Switzerland.  **other id:** MCB589(NYON).  **remarks:** Excellent Septoria resistance.  **Annual.**  **Breeding Material.**  **Seed.**

PI 542447  **donor id:** H81-640.  **origin:** Switzerland.  **other id:** MCB601(NYON).  **other id:** CH67335.  **remarks:** Excellent Septoria resistance.  **Annual.**  **Breeding Material.**  **Seed.**
<table>
<thead>
<tr>
<th>Accession Number</th>
<th>Donor ID</th>
<th>Origin</th>
<th>Other ID(s)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PI 542458</td>
<td>H84-972</td>
<td>United States</td>
<td>Kenya Farmer/Cedar, 3D-1</td>
<td>Plants true spring dwarf type (average height 67.5cm). Homozygous alleles D1D1, D2D2, D3D3, (dwarf clumping). Grass clump dwarf tester. Differcult to maintain. Spring Annual. Cultivar. Seed.</td>
</tr>
</tbody>
</table>
PI 542449  donor id: H84-974.  origin: United States.  pedigree:  
Kenya Farmer/Cedar, D 3.  remarks: Plants dwarf type  
(average height 52.5cm). Homozygous alleles D1D1, D2D2,  
D3D3, (dwarf clumping). Grass clump dwarf tester.  
Cultivar.  Seed.

PI 542460  donor id: H84-970.  origin: United States.  pedigree:  
Sel. 1403/Cnns 2B.  remarks: Plants dwarf type (average  
height 42.5cm). Homozygous alleles D1D1, D2D2, D3D3,  
Annual.  Cultivar.  Seed.

PI 542461  donor id: H84-969.  origin: United States.  cultivar:  
HERMSEN'S DWARF.  remarks: Homozygous alleles D1D1, D2D2.  
Grass clump dwarf tester. Some vernalization required.  
Difficult to maintain. Outcrosses easily. Annual.  
Cultivar.  Seed.

PI 542462  donor id: H84-971.  origin: United States.  pedigree:  
Sel. 1403/Cnns 2D.  remarks: Plants dwarf type (average  
height 31.2cm). Homozygous alleles D1D1, D4D4, (dwarf  

PI 542463  donor id: H84-973-1.  origin: United States.  pedigree:  
Kenya Farmer/Cedar, 3D-2.  remarks: Plants dwarf type  
(average height 55.0cm). Homozygous alleles alleles D1D1,  
D2D2, D3D3, (dwarf clumping). Difficult to maintain.  

PI 542464  donor id: M86-130.  origin: United States.  cultivar:  
SHORT SARAGOLLA TETRAPLOID.  pedigree: Saragolla/Olsen  
Dwarf/2/*3Saragolla.  remarks: Plants dwarf type.  
Susceptible to bunt (Tilletia ssp.) Crosses easily with A  

PI 542465  donor id: H83-953.  origin: United States.  cultivar:  
BLUE NORCO.  remarks: Seeds blue alurone (Xenia effect).  
Genetic makeup: 21 wheat chromosome pairs and one pair  
chromosomes (blue) from Agropyron ssp. Winter Annual.  
Cultivar.  Seed.

PI 542466.  Triticum macha Dekapr. & Menabde  
POACEAE  Wheat

Donated by: Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon  
State University, Corvallis, Oregon, United States. Received  
PI 542466-continued


PI 542467 to 542470. Secale cereale L. POACEAE Common rye

Donated by: Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.

PI 542467 donor id: H85-401. origin: Mexico. cultivar: EXTRA EARLY RYE 1. locality: Selected at Cuidad Obergon, Mexico. remarks: Maturity 40 days in field at Cuidad Obregon, Mexico, 33 days (10 hour daylength) in greenhouse at Corvallis, Oregon. Annual. Cultivar. Seed.


PI 542471. Triticum durum Desf. POACEAE Durum wheat

Donated by: Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.


PI 542472. Triticum militinae Zhuk. & Migush. POACEAE Wheat

Donated by: Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.
PI 542472-continued

**donor id:** M82-6267.  **origin:** USSR.  **remarks:** Spike compact, red when immature, black when mature.  Annual.  Wild.  Seed.

PI 542473 to 542474.  *Triticum monococcum* L.  POACEAE  Einkorn

**Donated by:** Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States.  Received January 01, 1987.

**PI 542473**  **donor id:** H81-501.  **origin:** United States.  **remarks:** Resistance to bunt (*Tilletia* ssp.).  Winter Annual.  Wild.  Seed.

**PI 542474**  **donor id:** R81-8029.  **origin:** Turkey.  **developer country:** United States.  **cultivar:** EINKORN-11.  **other id:** TR2660-68.  **source:** Izmir.  **remarks:** Resistant to bunt (*Tilletia* ssp.).  Winter Annual.  Wild.  Seed.

PI 542475.  *Triticum boeoticum* Boiss.  POACEAE  Wild einkorn

**Donated by:** Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States.  Received January 01, 1987.

**donor id:** H84-496.  **origin:** United States.  **cultivar:** W49-4-2.  **remarks:** Glums black.  Seed red. Originally from L. Smith.  Winter Annual.  Wild.  Seed.

PI 542476 to 542477.  *Secale cereale* L.  POACEAE  Common rye

**Donated by:** Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States.  Received January 01, 1987.

**PI 542476**  **donor id:** H80-50-1.  **origin:** United States.  **other id:** 79TK069-382.  **locality:** 19kms E Van, Van Province.  **elevation:** 1830m.  **remarks:** Plant spikes branched.  Annual.  Wild.  Seed.

**PI 542477**  **donor id:** M80-10939-2.  **origin:** Turkey.  **other id:** 79TK069-328.  **locality:** 19kms E Van, Van Province.  **elevation:** 1830m.  **remarks:** Plant spikes very large and faciated.  Annual.  Wild.  Seed.
PI 542478 to 542506. Triticum hybrid  POACEAE  Wheat hybrid

Donated by: Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.

PI 542478 donor id: M82-6300. origin: United States. 

PI 542479 donor id: H84-1076. origin: United States. 

PI 542480 donor id: H84-1077. origin: United States. 

PI 542481 donor id: H84-1078. origin: United States. 

PI 542482 donor id: H84-1060. origin: United States. 

PI 542483 donor id: H84-1058. origin: United States. 

PI 542484 donor id: H84-1051. origin: United States. 


PI 542486 donor id: R86-1702. origin: United States. 


PI 542507 to 542508. Triticum hybrid POACEAE Hybrid wheat

**Donated by:** Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. **remarks:**
Received through KUSE. Received January 01, 1987.

PI 542507 **donor id:** M82-3676. **origin:** United States. **pedigree:** Triticum carthlicum-4/Aegilops squarrosa. **other id:** KUSE 2144. **remarks:** Resistant to bunt (Tilletia ssp). KUSE 2144 is resistant to many bunt races. Winter Annual. Breeding Material. Seed.

PI 542508 **donor id:** M82-3665. **origin:** United States. **pedigree:** Triticum dicoccoides(JK)/Aegilops squarrosa. **other id:** KUSE 2016. Winter Annual. Breeding Material. Seed.

PI 542509 to 542566. X Triticosecale sp. POACEAE TRITICALE

**Donated by:** Metzger, R.J., USDA-ARS, Dep of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.

PI 542509 **donor id:** M86-6018. **origin:** United States. **pedigree:** Daws/Antelope Rye/2/A876. **other id:** M81-8046. **remarks:** Excellent snow mold (Fusarium nivale). Annual. Breeding Material. Seed.

PI 542510 **donor id:** M86-6016. **origin:** United States. **pedigree:** M85-8064/A876/2/EMSA876. **remarks:** Plant height 95cm. Annual. Breeding Material. Seed.

PI 542511 **donor id:** M86-6021. **origin:** Canada. **other id:** 83D002. **remarks:** Plant height 160cm. Nearly awnless. Originally from J. Helm. Annual. Breeding Material. Seed.

PI 542512 **donor id:** M86-6027. **origin:** United States. **other id:** 85E007. **remarks:** Plant height 110cm to 130cm. Annual. Breeding Material. Seed.

PI 542513 **donor id:** M86-6030. **origin:** United States. **pedigree:** Mayo*2/Armadello/2/274-320. **other id:** 79B132001. **remarks:** Plant height 140cm. Annual. Breeding Material. Seed.

PI 542514 **donor id:** M86-6032. **origin:** United States. **pedigree:** Hyslop dwarf/Rufus wild rye/2/B219/A876. **remarks:** Plant height 90cm. Annual. Breeding Material. Seed.

PI 542515 **donor id:** M86-6033. **origin:** United States. **pedigree:** Hyslop dwarf/Rufus Rye/2/B219/A876. **remarks:** Plant height 95cm to 110cm. Maturity early. Annual. Breeding Material. Seed.
PI 542516  donor id: M86-6034.  origin: United States.  pedigree:
Male Sterile B219/A876/2/EMSA876/Poland Dwarf-1.  B219 may have Triticum timopheevi cytoplasm, and is fertile because it carries fertility restorers.  remarks: Plant height 100cm to 115cm.  Annual.  Breeding Material.  Seed.

PI 542517  donor id: M86-6037.  origin: United States.  pedigree:

PI 542518  donor id: M86-6044.  origin: United States.  pedigree:

PI 542519  donor id: M86-6045.  origin: United States.  pedigree:

PI 542520  donor id: M86-6046.  origin: United States.  pedigree:

PI 542521  donor id: M86-6047.  origin: United States.  pedigree:

PI 542522  donor id: M86-6051.  origin: United States.  pedigree:

PI 542523  donor id: M86-6052.  origin: United States.  pedigree:


PI 542525  donor id: M86-6055.  origin: United States.  pedigree:

PI 542526  donor id: M86-6057.  origin: United States.  pedigree:
PI 542509 to 542566-continued


| PI 542539 | **donor id:** M86-6106. **origin:** United States. **pedigree:** M75-8064/A876/2/EMSA876. **remarks:** Plant height 95cm. Annual. Breeding Material. Seed. |
| PI 542540 | **donor id:** M86-6108. **origin:** United States. **pedigree:** Yoco/URSS 3310. Annual. Breeding Material. Seed. |
| PI 542541 | **donor id:** M86-6109. **origin:** United States. **other id:** KT933.82. Annual. Breeding Material. Seed. |
| PI 542542 | **donor id:** M86-6116. **origin:** United States. **pedigree:** Male sterile B219/A876/2/S. Silvestre. **remarks:** Plants height 120cm. Annual. Breeding Material. Seed. |
| PI 542544 | **donor id:** M86-6118. **origin:** United States. **pedigree:** 1008.3/Beagle. Annual. Breeding Material. Seed. |
| PI 542546 | **donor id:** M86-6139. **origin:** United States. **cultivar:** EMSA876. **other id:** M79-8409.10. **remarks:** Excellent small seed. Annual. Breeding Material. Seed. |
| PI 542547 | **donor id:** M86-6143. **origin:** United States. **other id:** Bl64. **remarks:** Plant height 115cm. Spring Annual. Breeding Material. Seed. |
| PI 542551 | **donor id:** M86-6174. **origin:** United States. **pedigree:** Stephen/Turkey Rye (Hexaploid) (Octoploid). **remarks:** Plant height 105cm. Annual. Breeding Material. Seed. |
PI 542509 to 542566-continued


PI 542564  

PI 542565  
**origin:** United States.  **pedigree:** Nacazari 76/Extra Early Rye, C3 Generation (octoploid).  **remarks:** Plant height 161cm. Annual. Breeding Material. Seed.

PI 542566  
**donor id:** M84-6176.  **origin:** Poland.  **other id:** CT583.81.  **remarks:** Plant height 161cm. Annual. Breeding Material. Seed.

PI 542567 to 542574. *Secale cereale* L.  **POACEAE** Rye

**Donated by:** Metzger, R.J., USDA-ARS, Dep of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.

PI 542567  
**donor id:** M86-9011.  **origin:** Poland.  **cultivar:** DANKOWSKIE ZLOTE GOLD RYE OUTCROSS NO. 4.  **other id:** KR85-1.  **remarks:** Height intermediate. Annual. Breeding Material. Seed.

PI 542568  
**donor id:** H82-305.  **origin:** Poland.  **cultivar:** KODIAK. Annual. Cultivated. Seed.

PI 542569  
**donor id:** 1343.  **origin:** Poland.  **cultivar:** JO 090. Annual. Cultivated. Seed.

PI 542570  
**donor id:** 18698.  **origin:** Poland.  **pedigree:** JEC7/1090. Annual. Breeding Material. Seed.

PI 542571  
**donor id:** 18709.  **origin:** Poland.  **cultivar:** LUNGAUER TAUREN. Annual. Cultivated. Seed.

PI 542572  
**origin:** Poland.  **cultivar:** POLLUX. Annual. Cultivated. Seed.

PI 542573  
**donor id:** 2631.  **origin:** Poland.  **cultivar:** TOIVO. Annual. Cultivated. Seed.

PI 542574  
**donor id:** 18708.  **origin:** Poland.  **cultivar:** KALTENBERGER. Annual. Cultivated. Seed.

PI 542575 to 542577. *Triticum aestivum* L.  **POACEAE** Common wheat

**Donated by:** Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.
PI 542575 to 542577-continued

PI 542575

PI 542576

PI 542577

PI 542578 to 542582. Triticum hybrid POACEAE Wheat

Donated by: Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.

PI 542578

PI 542579

PI 542580

PI 542581

PI 542582

PI 542583 to 542589. Triticum aestivum L. POACEAE Wheat

Donated by: Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.
PI 542583 to 542589-continued


PI 542590. Triticum durum Desf. POACEAE Wheat

Donated by: Metzger, R.J., USDA-ARS, Dept. of Crop Sciences, Oregon State University, Corvallis, Oregon, United States. Received January 01, 1987.


PI 542591 to 542593. Avena sativa L. POACEAE Common oat

Donated by: Agricultural Research Service --USDA-ARS, Cereal Research Unit, University Park, Pennsylvania, United States; and Pennsylvania Agr. Exp. Sta., Dept. of Agronomy, University Park, Pennsylvania, United States. Received June 90, 1990.
PI 542591 to 542593-continued


PI 542594. Abelmoschus esculentus (L.) Moench MALVACEAE Okra

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542595 to 542596. Amaranthus sp. AMARANTHACEAE

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542597 to 542598. Benincasa hispida (Thunb.) Cogn. CUCURBITACEAE Waxgourd

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542599 to 542604. Capsicum annuum L. SOLANACEAE Pepper

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542605. Cicer arietinum L. FABACEAE Chickpea

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.
PI 542605-continued


PI 542606. Citrullus lanatus (Thunb.) Matsum. & Nakai CUCURBITACEAE Watermelon

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542607. Cucurbita moschata (Duch.) Duch. ex Poir. CUCURBITACEAE

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542608. Cyamopsis tetragonoloba (L.) Taubert FABACEAE Guar

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542609. Lablab purpureus (L.) Sweet FABACEAE Lablab bean

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.

PI 542610. Lagenaria siceraria (Mol.) Standl. CUCURBITACEAE White flowered gourd

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542611. Luffa aegyptiaca Miller CUCURBITACEAE Luffa

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542612. Solanum melongena L. SOLANACEAE Eggplant

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542613. Phaseolus coccineus L. FABACEAE

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.


PI 542614. Raphanus sativus L. BRASSICACEAE Radish

Donated by: Johannessen, C.L., Department of Geography, University of Oregon, Eugene, Oregon, United States. Received October 10, 1988.

PI 542615. Asparagus hybrid  LILIACEAE

**Donated by:** McCollum, G.D., Vegetable Laboratory, USDA-ARS-BARC, Beltsville, Maryland, United States. Received.

- **origin:** United States. **cultivar:** ASP 8271-ASP8284.
- **pedigree:** F2 generation of Tetraploid of A. officinalis Viking/A. officinalis subsp. prostratus. **remarks:** Can be expected to segregate in gender and stem length, diameter, and habit (varying from erect to prostrate). Fully fertile. Hermaphroditism present. 2N=4X=40. Can be useful in widening the range of genetic variation in the morphology and adaptation of vegetable asparagus. Breeders of ornamentals might find it useful for developing novel types. F2 populations of Sib crosses 8270 and 8284 bulked. Breeding Material. Seed.

PI 542616. Citrullus colocynthis (L.) Schrad. CUCURBITACEAE Colocynth

**Donated by:** Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt, France; and Guarino, L., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received November 29, 1989.

- **donor id:** 1147. **origin:** Algeria. **collected:** June 22, 1988. **collector id:** 1147. **locality:** Wadi, edge of open Tamarix community, 60km SE of Arak, Mouydr Province. Site 21. **latitude:** 23 deg. 00 min. N. **longitude:** 42 deg. 00 min. E. **elevation:** 1050m. **remarks:** Soil pH>7.5. Wild. Seed.

PI 542617. Citrullus lanatus (Thunb.) Matsum. & Nakai  CUCURBITACEAE Watermelon

**Donated by:** Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt, France; and Guarino, L., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received November 29, 1989.

- **donor id:** 1088. **origin:** Algeria. **collected:** June 20, 1988. **collector id:** 1088. **locality:** Irrigated agriculture in wadi, Metoutek, Hoggar Province. Site 16. **latitude:** 24 deg. 20 min. N. **longitude:** 05 deg. 30 min. E. **elevation:** 1300m. **remarks:** Soil pH>7.5. Cultivated. Seed.

PI 542618 to 542619. Cucumis melo L.  CUCURBITACEAE Melo

**Donated by:** Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt, France; and Guarino, L., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received November 29, 1989.
PI 542618 to 542619-continued

PI 542618

PI 542619

PI 542620 to 542625. Medicago sativa L. FABACEAE

Donated by: Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt, France; and Guarino, L., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received November 29, 1989.

PI 542620

PI 542621

PI 542622

PI 542623


PI 542626. Pennisetum divisum (Forsk. ex Gmel.) Henr. POACEAE Millet

Donated by: Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt, France; and Guarino, L., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received November 29, 1989.


PI 542627 to 542637. Pennisetum glaucum (L.) R. Br. POACEAE Pearl millet

Donated by: Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt, France; and Guarino, L., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received November 29, 1989.


PI 542627 to 542637-continued

PI 542636  donor id: 1142.  origin: Algeria.  local name: Bishna.  
collected: June 22, 1988.  collector id: 1142.  locality:  
Irrigated agriculture in large wadi, Abalessa, Hoggar  
Province.  Site 19.  latitude: 23 deg. 00 min. N.  
longitude: 04 deg. 50 min. E.  elevation: 850m.  
Cultivated.  Seed.

PI 542637  donor id: 1143.  origin: Algeria.  local name: Bishna.  
collected: June 22, 1988.  collector id: 1143.  locality:  
Irrigated agriculture in large wadi, Abalessa, Hoggar  
Province.  Site 19.  latitude: 23 deg. 00 min. N.  
longitude: 04 deg. 50 min. E.  elevation: 850m.  

PI 542638 to 542648. Sorghum bicolor (L.) Moench  POACEAE  Sorghum

Donated by: Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt,  
France; and Guarino, L., IBPGR, Rome, Italy.  remarks: Received  
through IBPGR, Rome, Italy.  Received November 29, 1989.

PI 542638  donor id: 1007.  origin: Algeria.  local name: Tafsut.  
collected: June 12, 1988.  collector id: 1007.  locality:  
Recently cultivated land, Ain Gazzam, Tassili H.  
Province.  Site 4.  latitude: 19 deg. 30 min. N.  
longitude: 05 deg. 50 min. E.  elevation: 400m.  
remarks: Soil pH>7.5.  Durra red type.  Three heads  
sampled.  Cultivated.  Seed.

PI 542639  donor id: 1045.  origin: Algeria.  local name: Tafsut.  
collected: June 19, 1988.  collector id: 1045.  locality:  
Irrigated agriculture in wadi through rocky desert,  
Tazrouk, Hoggar Province.  Site 112.  latitude: 23 deg. 30  
min. N.  longitude: 06 deg. 10 min. E.  elevation: 1700m.  
remarks: Soil pH>7.5.  Durra red type.  One head  
sampled.  Cultivated.  Seed.

PI 542640  donor id: 1046.  origin: Algeria.  local name: Tafsut.  
collected: June 19, 1988.  collector id: 1046.  locality:  
Irrigated agriculture in wadi through rocky desert,  
Tazrouk, Hoggar Province.  Site 11.  latitude: 23 deg. 30  
min. N.  longitude: 06 deg. 10 min. E.  elevation: 1700m.  
remarks: Soil pH>7.5.  Durra white type.  One head  
sampled.  Cultivated.  Seed.
PI 542641 donor id: 1049. origin: Algeria. local name: Tafsut. 
collected: June 19, 1988. collector id: 1049. locality: 
Irrigated agriculture in wadi through rocky desert, 
Tazrouk, Hoggar Province. Site 11. latitude: 23 deg. 30 
min. N. longitude: 06 deg. 10 min. E. elevation: 
1700m. remarks: Soil pH>7.5. Durra white, small type. 
Cultivated. Seed.

PI 542642 donor id: 1053. origin: Algeria. local name: Tafsut. 
collected: June 20, 1988. collector id: 1053. locality: 
Irrigated agriculture in wadi, Ideles, Hoggar Province. 
Site 13. latitude: 23 deg. 50 min. N. longitude: 05 
deg. 50 min. E. elevation: 1350m. remarks: Soil 
pH>7.0. Dates present. Durra red type. Two heads sampled. 
Cultivated. Seed.

PI 542643 donor id: 1068. origin: Algeria. local name: Tafsut. 
collected: June 20, 1988. collector id: 1068. locality: 
Irrigated agriculture in wadi, Ideles, Hoggar Province. 
Site 13. latitude: 23 deg. 50 min. N. longitude: 05 
deg. 50 min. E. elevation: 1350m. remarks: Soil 
pH>7.0. Dates present. Durra red type. One head sampled. 
Cultivated. Seed.

PI 542644 donor id: 1069. origin: Algeria. local name: Tafsut. 
collected: June 20, 1988. collector id: 1069. locality: 
Irrigated agriculture in wadi, Ideles, Hoggar Province. 
Site 13. latitude: 23 deg. 50 min. N. longitude: 05 
deg. 50 min. E. elevation: 1350m. remarks: Soil 
pH>7.0. Dates present. Durra white type. One head sampled. 
Cultivated. Seed.

PI 542645 donor id: 1074. origin: Algeria. local name: Tafsut. 
collected: June 20, 1988. collector id: 1074. locality: 
Irrigated agriculture in wadi, Mertoutek, Hoggar 
Province. Site 16. latitude: 24 deg. 20 min. N. 
longitude: 05 deg. 30 min. E. elevation: 1300m. 
remarks: Soil pH>7.5. Durra red type. One head sampled. 
Cultivated. Seed.

PI 542646 donor id: 1093. origin: Algeria. local name: Tafsut. 
collected: June 21, 1988. collector id: 1093. locality: 
Irrigated agriculture, In Amguel, Hoggar Province. Site 
18. latitude: 23 deg. 50 min. N. longitude: 05 deg. 10 
min. E. elevation: 950m. remarks: Soil pH>7.5. Durra 
white early type. One head sampled. Cultivated. Seed.
PI 542638 to 542648-continued

PI 542647
donor id: 1094.  origin: Algeria.  local name: Tafsut.  
collected: June 21, 1988.  collector id: 1094.  locality:  
Irrigated agriculture, In Amguel, Hoggar Province.  Site  
18.  latitude: 23 deg. 50 min. N.  longitude: 05 deg. 10  
min. E.  elevation: 950m.  remarks: Soil pH>7.5. Durra  
white late type. One head sampled. Cultivated. Seed.

PI 542648
donor id: 1144.  origin: Algeria.  local name: Tafsut.  
collected: June 22, 1988.  collector id: 1144.  locality:  
Irrigated agriculture in large wadi, Abalessa, Hoggar  
Province.  Site 19.  latitude: 23 deg. 00 min. N.  
longitude: 04 deg. 50 min. E.  elevation: 850m.  remarks:  

PI 542649. Sorghum halepense (L.) Pers. POACEAE Johnsonsgrass

Donated by: Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt, 
France; and Guarino, L., IBPGR, Rome, Italy. remarks: Received  
through IBPGR, Rome, Italy. Received November 29, 1989.

donor id: 1111.  origin: Algeria.  collected: June 21,  
1988.  collector id: 1111.  locality: Irrigated  
agriculture, In Amguel, Hoggar Province.  Site 18.  
latitude: 23 deg. 50 min. N.  longitude: 05 deg. 10 min.  
E.  elevation: 950m.  remarks: Soil pH>7.5. Two plants  
sampled. Cultivated. Seed.

PI 542650 to 542675. Triticum aestivum L. POACEAE Common wheat

Donated by: Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt, 
France; and Guarino, L., IBPGR, Rome, Italy. remarks: Received  
through IBPGR, Rome, Italy. Received November 29, 1989.

PI 542650  
donor id: 1013.  origin: Algeria.  local name: Hamra.  
collected: June 19, 1988.  collector id: 1013.  locality:  
Irrigated agriculture in wadi bed, Tahifet, Hoggar  
Province.  Site 7.  latitude: 23 deg. 00 min. N.  
longitude: 06 deg. 00 min. E.  elevation: 1300m.  remarks:  
Soil pH>7.5. Cultivated. Seed.

PI 542651  
donor id: 1015.  origin: Algeria.  local name: Manga.  
collected: June 19, 1988.  collector id: 1015.  locality:  
Irrigated agriculture in wadi bed, Tahifet, Hoggar  
Province.  Site 7.  latitude: 23 deg. 00 min. N.  
longitude: 06 deg. 00 min. E.  elevation: 1300m.  remarks:  
Soil pH>7.5. Cultivated. Seed.


PI 542659  donor id: 1061.  origin: Algeria.  local name: Manga.
collected: June 20, 1988.  collector id: 1061.  locality: Irrigated agriculture in wadi, Ideles, Hoggar Province.


PI 542673  donor id: 1134.  origin: Algeria.  local name: Manga.  
collected: June 22, 1988.  collector id: 1134.  locality:  
Irrigated agriculture in large wadi, Abalessa, Hoggar 
Province. Site 19.  latitude: 23 deg. 00 min. N.  
longitude: 04 deg. 50 min. E.  elevation: 850m.  

PI 542674  donor id: 1135.  origin: Algeria.  local name: Bourba.  
collected: June 22, 1988.  collector id: 1135.  locality:  
Irrigated agriculture in large wadi, Abalessa, Hoggar 
Province. Site 19.  latitude: 23 deg. 00 min. N.  
longitude: 04 deg. 50 min. E.  elevation: 850m.  

PI 542675  donor id: 1136.  origin: Algeria.  local name: Sudani.  
collected: June 22, 1988.  collector id: 1136.  locality:  
Irrigated agriculture in large wadi, Abalessa, Hoggar 
Province. Site 19.  latitude: 23 deg. 00 min. N.  
longitude: 04 deg. 50 min. E.  elevation: 850m.  
remarks: Soil pH>7.5. Dates present. Two spikes sampled. 
Cultivated. Seed.

PI 542676  donor id: 1014.  origin: Algeria.  local name: Mekkooui.  
collected: June 19, 1988.  collector id: 1014.  locality:  
Irrigated agriculture in wadi bed, Tahifet, Hoggar 
Province. Site 7.  latitude: 23 deg. 00 min. N.  
longitude: 06 deg. 00 min. E.  elevation: 1300m.  

PI 542677  donor id: 1036.  origin: Algeria.  local name: Sundani.  
collected: June 19, 1988.  collector id: 1036.  locality:  
Irrigated agriculture in wadi through rocky desert, 
Tazrouk, Hoggar Province. Site 11.  latitude: 23 deg. 30 
min. N.  longitude: 06 deg. 10 min. E.  elevation: 
1700m.  remarks: Soil pH>7.5. Cultivated. Seed.

PI 542677  donor id: 1050.  origin: Algeria.  local name: Mekkooui.  
collected: June 19, 1988.  collector id: 1050.  locality:  
Irrigated agriculture in wadi through rocky desert, 
Tazrouk, Hoggar Province. Site 11.  latitude: 23 deg. 30 
min. N.  longitude: 06 deg. 10 min. E.  elevation: 
1700m.  remarks: Soil pH>7.5. Cultivated. Seed.
PI 542676 to 542680-continued

**PI 542679**

donor id: 1057. origin: Algeria. local name: Mekkaoui.  
collected: June 20, 1988. collector id: 1057. locality:  
Irrigated agriculture in wadi, Ideles, Hoggar Province.  
Site 13. latitude: 23 deg. 50 min. N. longitude: 05  
deg. 50 min. E. elevation: 1350m. remarks: Soil  

**PI 542680**

donor id: 1101. origin: Algeria. local name: Mekkaoui.  
collected: June 21, 1988. collector id: 1101. locality:  
Irrigated agriculture, In Amguel, Hoggar Province. Site  
18. latitude: 23 deg. 50 min. N. longitude: 05 deg. 10  
min. E. elevation: 950m. remarks: Soil pH>7.5.  
Cultivated. Seed.

**PI 542681. Vigna unguiculata (L.) Walp. FABACEAE**

Donated by: Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt,  
France; and Guarino, L., IBPGR, Rome, Italy. remarks: Received  
through IBPGR, Rome, Italy. Received November 29, 1989.


donor id: 1113. origin: Algeria. local name: Tadelagh.  
collected: June 21, 1988. collector id: 1113. locality:  
Irrigated agriculture, In Amguel, Hoggar Province. Site  
18. latitude: 23 deg. 50 min. N. longitude: 05 deg. 10  
min. E. elevation: 950m. remarks: Soil pH>7.5.  
Cultivated. Seed.

**PI 542682 to 542689. Zea mays L. subsp. mays POACEAE Corn**

Donated by: Mokkadem, A.; Chadja, H., INRA, LaMiniere, Guyancourt,  
France; and Guarino, L., IBPGR, Rome, Italy. remarks: Received  
through IBPGR, Rome, Italy. Received November 29, 1989.

**PI 542682**

donor id: 1021. origin: Algeria. local name: Kabl.  
collected: June 19, 1988. collector id: 1021. locality:  
Irrigated agriculture in wadi bed, Tahifet, Hoggar  
Province. Site 7. latitude: 23 deg. 00 min. N.  
longitude: 06 deg. 00 min. E. elevation: 1300m.  
remarks: Soil pH>7.5. Seeds yellow. Two heads collected.  
Cultivated. Seed.

**PI 542683**

donor id: 1037. origin: Algeria. local name: Kabl.  
collected: June 19, 1988. collector id: 1037. locality:  
Irrigated agriculture in wadi through rocky desert,  
Tazrouk, Hoggar Province. Site 11. latitude: 23 deg. 30  
min. N. longitude: 06 deg. 10 min. E. elevation:  
Seed.


PI 542690. Lathyrus sp.  FABACEAE

PI 542690-continued

**donor id:** 210785-07. **origin:** Turkey. **collected:** July 21, 1985. **collector id:** 210785-07. **other id:** W6-2652. **locality:** Growing among chickpeas. Wild. Seed.

PI 542691. *Papaver somniferum* L. PAPAVERACEAE Opium poppy

**Donated by:** Kaiser, W.J., Western Regional PI Station, USDA-ARS, Room 59, Johnson Hall, Washington State Univ., Pullman, Washington, United States. Received May 19, 1990.

**donor id:** 230785-0301. **origin:** Turkey. **collected:** July 23, 1985. **collector id:** 230785-0301. **other id:** W6-2684. **locality:** Field near Kiziloren village, about 30km N of Dinar on road to Afyon, Afyon Province. **elevation:** 1050m. Cultivated. Seed.

PI 542692. *Papaver sp.* PAPAVERACEAE

**Donated by:** Kaiser, W.J., Western Regional PI Station, USDA-ARS, Room 59, Johnson Hall, Washington State Univ., Pullman, Washington, United States. Received May 19, 1990.

**donor id:** 240785-06. **origin:** Turkey. **collected:** July 24, 1985. **collector id:** 240785-06. **other id:** W6-2685. **locality:** River bed among rocks, 31km S of Isparta on road to Aglasum, Burdur Province. **elevation:** 1040m. **remarks:** Flowers red. Capsules small. Wild. Seed.

PI 542693 to 542699. *Trigonella sp.* FABACEAE

**Donated by:** Kaiser, W.J., Western Regional PI Station, USDA-ARS, Room 59, Johnson Hall, Washington State Univ., Pullman, Washington, United States. Received May 19, 1990.

PI 542693 **donor id:** 270685-02. **origin:** Turkey. **collected:** June 27, 1985. **collector id:** 270685-02. **other id:** W6-2699. **locality:** Edge of chickpea field, rocky soil, 7km S of Gulnar in Taurus mountains. **elevation:** 920m. **remarks:** Pods long curved. Flowers small, yellow. Plants small but produced abundant pods which were elevated above plant. Wild. Seed.

PI 542694 **donor id:** 060785-02. **origin:** Turkey. **collected:** July 06, 1985. **collector id:** 060785-02. **other id:** W6-2700. **locality:** Rocky brown soil. From piles of drying lentil pods in the field, Ataturk Dam, on road to Adiyaman, 20km from DSI Camp, Adiyaman Province. **elevation:** 580m. **remarks:** Pods slightly curved, 5cm long. Wild. Seed.


PI 542699  donor id: 270785-01.  origin: Turkey.  collected: July 27, 1985.  collector id: 270785-01.  other id: W6-2704.  locality: Steep, rocky area, calcareous soil, oak and juniper trees present, 10km from Kutahya, on road to Eskisehir, Kutahya Province.  elevation: 1010m.  remarks: Pods from one dry plant.  Wild.  Seed.

PI 542700 to 542703.  Vicia sativa L.  FABACEAE  Common vetch


PI 542700 to 542703-continued

PI 542703  donor id: 180785-06.  origin: Turkey.  collected: July 18, 1985.  collector id: 180785-06.  other id: W6-2706.  locality: From threshing pile, Sazlidere village, 19km to Akdagmaden, Yozgat Province.  elevation: 1300m.  Cultivated.  Seed.

PI 542704 to 542706.  Triticum aestivum L.  POACEAE  Common wheat

**Donated by:** Metzger, R.J., Department of Crop Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States.  Received January 01, 1987.


PI 542707 to 542708.  Hordeum vulgare L.  POACEAE  Barley

**Donated by:** Scharen, A.L., USDA-ARS, Cereal Crops Research, Montana State University, Bozeman, Montana, United States.  Received April 01, 1990.


PI 542709.  Glycine max (L.) Merr.  FABACEAE  Soybean

**Donated by:** McBlain, B.A., Ohio Agr. Res. and Development Center, 1680 Madison Avenue, Wooster, Ohio, United States.  remarks: Hayes Soybean.  Received July 11, 1990.
PI 542709-continued


PI 542710. Glycine max (L.) Merr. FABACEAE Soybean


PI 542711. Glycine max (L.) Merr. FABACEAE Soybean


PI 542712. Glycine max (L.) Merr. FABACEAE Soybean


PI 542713 to 542716. Zea mays L. subsp. mays POACEAE Corn

Donated by: Thomas-Compton, M., University of Nebraska, 308 Keim Hall, Lincoln, Nebraska, United States. Received July 12, 1990.

PI 542713 origin: United States. cultivar: YPI LFWS(1). pedigree: Yellow Pearl I Leaf Freckles and Wilt-YPFS(1) is an improved version of the open pollinated popcorn variety Yellow Pearl. remarks: YPI LFWS(1) has undergone one cycle of combined So and S1 line per se selection for reaction to Goss' wilt (Leaf freckles and wilt) disease caused by Corynebacterium clavibacter michiganense ssp nebraskense. On a scale of 1 to 5 with 1 = resistant and 5 = susceptible, YPT LFWS(1) averaged 2.65. Popping expansion 27.3 cc g-1. Not dent-sterile. Spring Annual. Breeding Material. Seed.

PI 542714 origin: United States. cultivar: SGII LFWS(2). pedigree: Supergold II Leaf Freckles and wilt (2) [SGII LFWS(2)] is an improved version of open pollinated popcorn variety Supergold. remarks: SGII LFWS(2) has undergone two cycles of combined So and S11 line per se selection for reaction to Goss' wilt (Leaf freckles and wilt) disease caused by Corynebacterium clavibacter michiganense ssp nebraskense. On a scale of 1 to 5 with 1 = resistant and 5 = susceptible, SGII LFW(2) averaged 2.61. Popping expansion 27.3 cc g-1. Kernels yellow-pearl, medium-large. Not dent-sterile. Spring Annual. Breeding Material. Seed.
PI 542715  origin: United States.  cultivar: NP86.  pedigree: S5 inbred line derived from Nebraska version of Supergold (Syn7) variety. NP86 is a derivative of SG86.  remarks: Among 112 SI lines evaluated SG86 showed higher expansion volume and lower stalk breakage than Supergold (Syn7). Plants uniform, approx. 160cm tall. Maturity early, flowers approx. 2 days later than IaDS53. Kernels medium-small, yellow-pearl. Combines well with IaDS91 as well as non-Supergold lines. Shows popping expansions of 36.0 and 37.3 cc g-1 by conventional and microwave popping methods. Spring Annual. Breeding Material. Seed.

PI 542716  origin: United States.  cultivar: NP87.  pedigree: S5 inbred line derived from Nebraska version of Supergold (Syn7) variety. NP87 is a derivative of SG17.  remarks: Among 112 SI lines evaluated SG17 showed higher expansion volume and lower stalk breakage than Supergold (Syn7). Plants uniform, approx. 195cm tall. Maturity medium. Kernels medium-large, yellow-pearl. Combines well with IaDS69 as well as non-Supergold lines. Shows popping expansion of 37.3 cc g-1 for both conventional and microwave popping methods. Not dent-sterile but promising DS derivatives have been. Spring Annual. Breeding Material. Seed.

PI 542717 to 542767. Sorghum bicolor (L.) Moench POACEAE Sorghum Donated by: Schertz, K.F., USDA-ARS, Department of Crop & Soil Sciences, Texas A&M University, College Station, Texas, United States. Received June 26, 1990.


PI 542721  
origin: China.  
cultivar: GUAN DONG QING.  
other id: Chin. Nat. Acc. No. 3335.  
other id: Guan dong green.  
locality: Jinzhou.  
remarks: Local variety.

PI 542722  
origin: China.  
cultivar: JIN FU 1.  
other id: Chin. Nat. Acc. No. 793.  
other id: Jin radiation No. 1.  
locality: Fenyang.  
remarks: Improved variety, restorer.  
Annual.  
Breeding Material.  
Seed.

PI 542723  
origin: China.  
cultivar: XIN LIANG 7.  
other id: Chin. Nat. Acc. No. 730.  
other id: Xin sorghum No. 7.  
locality: Xinxian.  
remarks: Improved variety, restorer.  
Annual.  
Breeding Material.  
Seed.

PI 542724  
origin: China.  
cultivar: XIN LIANG 52.  
other id: Chin. Nat. Acc. No. 731.  
other id: Xin Sorghum No. 52.  
locality: Xinxian.  
remarks: Improved variety, restorer.  
Annual.  
Breeding Material.  
Seed.

PI 542725  
origin: China.  
cultivar: JI HUI 7348.  
other id: Chin. Nat. Acc. No. 140.  
other id: Jin restorer 7384.  
locality: Gungzhuling.  
remarks: Improved variety.  
Restorer.  
Annual.  
Breeding Material.  
Seed.

PI 542726  
origin: China.  
cultivar: MIN QUAN DA QING JIE.  
other id: Min Quan big green stalk.  
locality: Min Quan.  
remarks: Local variety, restorer.  
Annual.  
Breeding Material.  
Seed.

PI 542727  
origin: China.  
cultivar: BA YIE QI.  
other id: Chin. Nat. Acc. No. 3046.  
other id: Eight-leaf uniform.  
locality: An Shan.  
remarks: Local variety, maintainer.  
Annual.  
Breeding Material.  
Seed.

PI 542728  
origin: China.  
cultivar: HUANG KE.  
other id: Chin. Nat. Acc. No. 3467.  
other id: Yellow glume (shell).  
remarks: Local variety.  
Annual.  
Breeding Material.  
Seed.

PI 542729  
origin: China.  
cultivar: BAI E ZI.  
other id: Chin. Nat. Acc. No. 568.  
other id: White dwarf.  
remarks: Local variety.  
Annual.  
Breeding Material.  
Seed.

PI 542730  
origin: China.  
cultivar: XIANG GAOLIANG.  
other id: Sweet-smelling sorghum.  
remarks: Local variety.  
Annual.  
Breeding Material.  
Seed.

PI 542731  
origin: China.  
cultivar: ZHAO NONG 303.  
other id: Zhao agriculture 303.  
locality: Chifeng.  
remarks: Improved variety, restorer.  
Annual.  
Breeding Material.  
Seed.


PI 542742  origin: China.  
cultivar: BAI GAO LIANG.  
other id: Chin.  Nat. Acc. No. 125.  
other id: White sorghum.  
locality: Xingcheng.  

PI 542743  origin: China.  
cultivar: CHU CHU HONG YI HAO.  
other id: Chin. Nat. Acc. No. 132.  
other id: Red everything No. 1.  

PI 542744  origin: China.  
cultivar: LAO MU XHU QIAO JIAO.  
other id: Chin. Nat. Acc. No. 141.  
other id: Old female pig lifts her feet.  
locality: Jilin.  

PI 542745  origin: China.  
cultivar: LAO MU XHU QIAO JIAO.  
other id: Chin. Nat. Acc. No. 143.  
other id: Old female pig lifts her feet.  
locality: Zhaomeng.  

PI 542746  origin: China.  
cultivar: GUAN DONG QING.  
other id: Chin. Nat. Acc. No. 158.  
other id: Guan dong green.  
locality: Jin Zhou.  

PI 542747  origin: China.  
cultivar: HONG KE.  
other id: Red glume.  
locality: Fu song.  

PI 542748  origin: China.  
cultivar: HONG KE HONG QIAO JIAO ZI.  
other id: Red glume Red Lifting feet.  
locality: Ka Zuo.  

PI 542749  origin: China.  
cultivar: HU BO CUO.  
other id: Dwarf of short neck.  
locality: Huai De.  

PI 542750  origin: China.  
cultivar: WAI BO ZHANG.  
other id: Look with crooked neck.  
locality: Qing Yuan.  

PI 542751  origin: China.  
cultivar: HUANG KE XIAO BAI GAOLIANG.  
other id: Small white with yellow glume.  
locality: Chou Yang.  
PI 542752  
**origin:** China.  
**cultivar:** HUANG KE BAI NIAN QIAOJIAO.  
**other id:** Chin. Nat. Acc. No. 253.  
**other id:** White glutinous yellow glume.  
**locality:** Ka Zuo.  
**remarks:** Local variety. Annual. Breeding Material. Seed.

PI 542753  
**origin:** China.  
**cultivar:** HUANG KE ZAO GAOLIANG.  
**other id:** Chin. Nat. Acc. No. 254.  
**other id:** Early-maturing yellow glume.  
**locality:** Xin bin.  
**remarks:** Local variety. Annual. Breeding Material. Seed.

PI 542754  
**origin:** China.  
**cultivar:** NIAN GAOLIANG.  
**other id:** Chin. Nat. Acc. No. 275.  
**other id:** Glutinous sorghum.  
**locality:** Yong Ji.  
**remarks:** Local variety. Annual. Breeding Material. Seed.

PI 542755  
**origin:** China.  
**cultivar:** BAI PING.  
**other id:** Chin. Nat. Acc. No. 557.  
**other id:** White flat.  
**locality:** Tang Shan.  
**remarks:** Local variety. Annual. Breeding Material. Seed.

PI 542756  
**origin:** China.  
**cultivar:** BAI GAOLIANG.  
**other id:** Chin. Nat. Acc. No. 577.  
**other id:** White sorghum.  
**locality:** Lai Yang.  
**remarks:** Local variety. Annual. Breeding Material. Seed.

PI 542757  
**origin:** China.  
**cultivar:** BAI AI.  
**other id:** Chin. Nat. Acc. No. 593.  
**other id:** White dwarf.  
**locality:** Longhua.  
**remarks:** Local variety. Annual. Breeding Material. Seed.

PI 542758  
**origin:** China.  
**cultivar:** MU ZHU GOU.  
**other id:** Chin. Nat. Acc. No. 600.  
**other id:** Enough to female pig.  
**locality:** He Ze.  
**remarks:** Local variety. Annual. Breeding Material. Seed.

PI 542759  
**origin:** China.  
**cultivar:** DA LUO CHUI.  
**other id:** Chin. Nat. Acc. No. 5212.  
**other id:** Gong hammer.  
**locality:** Huimin.  
**remarks:** Local variety. Annual. Breeding Material. Seed.

PI 542760  
**origin:** China.  
**cultivar:** JILIN HU NO. 2.  
**other id:** Protect No. 2.  
**remarks:** Annual. Breeding Material. Seed.

PI 542761  
**origin:** China.  
**cultivar:** JILIN HU NO. 4.  
**other id:** Protect No. 4.  
**remarks:** Annual. Breeding Material. Seed.

PI 542762  
**origin:** China.  
**cultivar:** JILIN HU NO. 22.  
**other id:** Protect No. 22.  
**remarks:** Annual. Breeding Material. Seed.

PI 542763  
**origin:** China.  
**cultivar:** JILIN DA HUANG KE.  
**other id:** Big red glume.  
**remarks:** Annual. Breeding Material. Seed.
PI 542717 to 542767-continued

PI 542764  
**origin:** China.  
**cultivar:** JILIN HEI LONG JIANG-22.  
**other id:** Hei Long 2.  
Annual.  
Breeding Material.  
Seed.

PI 542765  
**origin:** China.  
**cultivar:** JILIN ZHO BAN YUE.  
Annual.  
Breeding Material.  
Seed.

PI 542766  
**origin:** China.  
**cultivar:** JILIN HEI LONG JIANG-2.  
Annual.  
Breeding Material.  
Seed.

PI 542767  
**origin:** China.  
**cultivar:** JILIN XIAO HUANG KE.  
**other id:** Small red glume.  
Annual.  
Breeding Material.  
Seed.

PI 542768. Glycine max (L.) Merr. FABACEAE Soybean

**Donated by:** Orf, J.H., Minnesota Agr. Exp. Sta., University of Minnesota, St. Paul, Minnesota, United States.  
**remarks:** Sturdy Soybean.  
Received July 23, 1990.

**origin:** United States.  
**origin institute:** Minnesota Agr. Exp. Sta., Minnesota.  
**cultivar:** Sturdy.  
**pedigree:** M70-127 x Century.  
**other id:** PVP 9000027.  
**source:** Pending.  
**group:** PVPO.  
**other id:** CV-276.  
**group:** CSR-SOYBEAN.  
**other id:** M81-384.  
**source:** Prior designation.  
**remarks:** Indeterminate early maturity Group II.  
Flowers purple.  
Pubescence gray.  
Pods brown.  
Seeds intermediate luster yellow with imperfect black hila.  
Rpsl gene present for resistance to phytophthora root rot (Phytophthora megasperma).  
Annual.  
Cultivar.  
Seed.

PI 542769. Glycine max (L.) Merr. FABACEAE Soybean

**Donated by:** Orf, J.H., Minnesota Agr. Exp. Sta., University of Minnesota, St. Paul, Minnesota, United States.  
**remarks:** Proto Soybean.  
Received July 23, 1990.

**origin:** United States.  
**origin institute:** Minnesota Agr. Exp. Sta., St. Paul, Minnesota 55100.  
**cultivar:** Proto.  
**pedigree:** M70-504 x M69-42.  
**other id:** CV-275.  
**group:** CSR-SOYBEAN.  
**other id:** M77-251.  
**source:** Prior designation.  
**remarks:** Indeterminate maturity Group O.  
Flowers purple.  
Pubescence gray.  
Pods brown.  
Seeds dull yellow with buff hila.  
Protein content 5% higher and oil content 2% lower than most common soybean varieties.  
Annual.  
Cultivar.  
Seed.
PI 542770 to 542775. *Gossypium barbadense* L. MALVACEAE Cotton

**Donated by:** Turcotte, E.L., Agricultural Research Service — USDA, 37860 W. Smith-Enke Road, Maricopa, Arizona, United States; and Arizona Agr. Exp. Sta.  
**remarks:** Six American Pima Cotton Germplasms. Received July 23, 1990.

**PI 542770**  
**origin:** United States.  
**origin institute:** Agricultural Research Service — USDA, 37860 W. Smith-Enke Rd., Maricopa, Arizona 85239.  
**cultivar:** P45.  
**pedigree:** F5 selection from 6503-33-3-1/6614-91-11.  
**other id:** GP-479.  
**group:** CSR-COTTON.  
**remarks:** Grown in 25 replicated tests in Pima belt from 1980 through 1982. Plant height 103cm. Yield potential 1314 kg ha⁻¹. Lint percentage 37.4. Fiber length 35.8mm for 2.5% span length and 17.3mm for 50% span length. T₁ fiber strength 341 mN/tex. Micronaire 4.02 units. Spring Annual. Breeding Material. Seed.

**PI 542771**  
**origin:** United States.  
**origin institute:** Agricultural Research Service — USDA, 37860 W. Smith-Enke Rd., Maricopa, Arizona 85239.  
**cultivar:** P51.  
**pedigree:** F5 selection from 6503-33-3-1/6612-62-5.  
**other id:** GP-480.  
**group:** CSR-COTTON.  
**remarks:** Grown in 32 replicated tests in Pima belt from 1981 through 1985. Plant height 83cm. Yield potential 1193 kg ha⁻¹. Lint percentage 37.5. Fiber length 35.3mm for 2.5% span length and 17.3mm for 50% span length. T₁ fiber strength 328 mN/tex. Micronaire 3.88 units. Spring Annual. Breeding Material. Seed.

**PI 542772**  
**origin:** United States.  
**origin institute:** Agricultural Research Service — USDA, 37860 W. Smith-Enke Rd., Maricopa, Arizona 85239.  
**cultivar:** P53.  
**pedigree:** F5 selection from 6112-4-1-5-1/6404-68-2-9.  
**other id:** GP-481.  
**group:** CSR-COTTON.  
**remarks:** Grown in 27 replicated tests in Pima belt from 1981 through 1984. Plant height 107cm. Yield potential 1294 kg ha⁻¹. Lint percentage 37.7. Fiber length 35.6mm for 2.5% span length and 17.8mm for 50% span length. T₁ fiber strength 335 mN/tex. Micronaire 3.75 units. Spring Annual. Breeding Material. Seed.

**PI 542773**  
**origin:** United States.  
**origin institute:** Agricultural Research Service — USDA, 37860 W. Smith-Enke Rd., Maricopa, Arizona 85239.  
**cultivar:** P62.  
**pedigree:** F6 selection from 6503-33-3-1/6614-91-11.  
**other id:** GP-482.  
**group:** CSR-COTTON.  
**remarks:** Grown in 17 replicated tests in Pima belt in 1983, 1984 and 1985. Plant height 83cm. Yield potential 1101 kg ha⁻¹. Lint percentage 36.8. Fiber length 36.6mm for 2.5% span length and 17.8mm for 50% span length. T₁ fiber strength 329 mN/tex. Micronaire 3.73 units. Spring Annual. Breeding Material. Seed.
PI 542774  
origin: United States.  
cultivar: P66.  
pedigree: F5 selection from 6614-91-9-3/6910-20-1-5.  
other id: GP-483.  
group: CSR-COTTON.  
Plant height 84cm. Yield potential 1232 kg ha⁻¹. Lint percentage 42.1. Fiber length 34.0mm for 2.5% span length and 15.7mm for 50% span length. Tl fiber strength 316 mN/tex. Micronaire 3.69 units. Spring Annual. Breeding Material. Seed.

PI 542775  
origin: United States.  
cultivar: E15.  
pedigree: F6 selection from family EL-5782 derived from hybrid B germplasm pool developed at El Paso, Texas.  
other id: GP-484.  
group: CSR-COTTON.  
Plant height 113cm. Yield potential 1160 kg ha⁻¹. Lint percentage 38.0. Fiber length 34.5mm for 2.5% span length and 16.5mm for 50% span length. Tl fiber strength 317 mN/tex. Micronaire 3.68 units. Spring Annual. Breeding Material. Seed.

PI 542776 to 542778. Zea mays L. subsp. mays POACEAE Corn

Donated by: Ashman, R.B., Indiana Agr. Exp. Sta., Purdue University, West Lafayette, Indiana, United States.  

PI 542776  
origin: United States.  
origin institute: Indiana Agr. Exp. Sta., Purdue University, West Lafayette, Indiana 47907-1155.  
cultivar: HP62-02.  
pedigree: Derived from cross between Supergold and Early Yellow. Test crosses made on Supergold/Amber Pearl single cross and selection made primarily for high popping expansion volume.  
other id: PL-155.  
group: CSR-MAIZE.  
remarks: Plant height 115cm and 61cm to ear bearing node. Days to mid-pollen-shed average 70 and to midsilk 74. Ears average 17cm in length with 14 rows of kernels and have good husk coverage. Kernels have yellow endosperm and large enough to make satisfactory seed parent (87 k/10 g). Pollen production fair. Cross (dent) sterile (Gal-s). Breeding Material. Seed.
PI 542777  
**origin**: United States.  
**origin institute**: Indiana Agr. Exp. Sta., Purdue University, West Lafayette, Indiana 47907-1155.  
**cultivar**: HP72-11.  
**pedigree**: Derived from cross between dent corn inbred C103 and popcorn double cross followed by two crosses to popcorn single cross. Selection made primarily from South American and Early Yellow.  
**other id**: PL-156.  
**group**: CSR-MAIZE.  
**remarks**: Plant height 127cm and 51cm to ear bearing node. Days to mid-pollen-shed average 73 and to midsilk 77. Ears average 16cm in length with 12 rows of kernels and have good husk coverage. Kernels have yellow endosperm and are too small to make satisfactory seed parent (108 k/10 g). Pollen production dependably large. Cross (dent) sterile (Gal-s). Breeding Material. Seed.

PI 542778  
**origin**: United States.  
**origin institute**: Indiana Agr. Exp. Sta., Purdue University, West Lafayette, Indiana 47907-1155.  
**cultivar**: HP68-07.  
**pedigree**: Derived from cross between dent corn inbred H60 and popcorn double cross followed by cross to popcorn single cross. Germplasm involved primarily from Amber Pearl and South American.  
**other id**: PL-157.  
**group**: CSR-MAIZE.  
**remarks**: Plant height 136cm and 62cm to ear bearing node. Days to mid-pollen-shed average 71 and to midsilk 73. Ears average 16cm in length with 14 rows of kernels. Kernels have yellow endosperm and are large enough to make satisfactory seed parent (88 k/10 g). Husk long tight, often reduces seed set. Pollen production fair. Cross (dent) sterile (Gal-s). Ht-1 present for resistance to northern leaf blight. Breeding Material. Seed.

PI 542779 to 542781. **Anthyllis vulneraria subsp. carpatica (Pant.)** Nyman  
**FABACEAE**


PI 542779  
**donor id**: ST-8.  
**origin**: Yugoslavia.  
**collected**: August 1988.  
**locality**: Side road from Coast Rd., 12km from Jurjevo, Route 6, Village Razbojiste, Croatia Republic.  
**elevation**: 710m.  
**received as**: Anthyllis vulgaris. Wild. Seed.

PI 542780  
**donor id**: ST-16.  
**origin**: Yugoslavia.  
**collected**: August 1988.  
**locality**: 17km, 600m from Jurjevo, Route 6, approx. 0.5km S of Krasno, Croatia Republic.  
**elevation**: 990m.  
**received as**: Anthyllis vulgaris. Wild. Seed.
PI 542781  
**donor id:** ST-19.  
**origin:** Yugoslavia.  
**collected:** August 1988.  
**collector id:** ST-19.  
**locality:** On road from Gracac to Karlobag, Route 6, Village Reduce, Croatia Republic.  
**elevation:** 610m.  
**received as:** Anthyllis vulgaris.  
Wild.  
Seed.

PI 542782.  
**Astragalus sp.**  
**FABACEAE**

**Donated by:** Taylor, N.L., Univ. of Kentucky, Dept. of Agronomy, N-122 Ag. Sc. Bldg.-N, Lexington, Kentucky, United States; and  
Received October 1989.

**donor id:** T-12.  
**origin:** Yugoslavia.  
**collected:** August 1988.  
**collector id:** T-12.  
**locality:** Side road from Coast Rd., 12km from Jurjevo, Route 6, Village Razbojiste, Croatia Republic.  
**elevation:** 710m.  
Wild.  
Seed.

PI 542783.  
**Dactylis glomerata L.**  
**POACEAE**  
**Orchardgrass**

**Donated by:** Taylor, N.L., Univ. of Kentucky, Dept. of Agronomy, N-122 Ag. Sc. Bldg.-N, Lexington, Kentucky, United States; and  
Received October 1989.

**donor id:** T-6.  
**origin:** Yugoslavia.  
**collected:** August 1988.  
**collector id:** T-6.  
**locality:** Plitvice 5km S of Motel "GAJ", Highway no. 13, Croatia Republic.  
**elevation:** 1000m.  
Wild.  
Seed.

PI 542784 to 542785.  
**Lotus corniculatus L.**  
**FABACEAE**  
**Birdsfoot trefoil**

**Donated by:** Taylor, N.L., Univ. of Kentucky, Dept. of Agronomy, N-122 Ag. Sc. Bldg.-N, Lexington, Kentucky, United States; and  
Received October 1989.

**donor id:** S-94.  
**origin:** Yugoslavia.  
**collected:** August 1988.  
**collector id:** S-94.  
**locality:** Priluka to Lusnic, Road 6, 30km from Glamoc, Bosnia Republic.  
**elevation:** 740m.  
**remarks:** Plants mixed, tall and short.  
Cultivated.  
Seed.

PI 542786 to 542792. Lotus sp. FABACEAE


PI 542788 donor id: S-16. origin: Yugoslavia. collected: August 1988. collector id: S-16. locality: 17km, 600m from Jurjevo, Route 6, approx. 0.5km S of Krasno, Croatia Republic. elevation: 990m. remarks: Plants green, tall-growing. Flowers yellow. Wild. Seed.


PI 542793. Lotus tenuis Waldst. & Kit. ex Willd. FABACEAE Narrowleaf trefoil

**Donated by:** Taylor, N.L., Univ. of Kentucky, Dept. of Agronomy, N-122 Ag. Sc. Bldg.-N, Lexington, Kentucky, United States; and Smith, R.R., ARS-USDA, Midwest Area U.S. Dairy Forage Res. Ctr., Univ. of Wisconsin, 1925 Linden Dr.-W, Madison, Wisconsin, United States. Received October 1989.

**donor id:** S-40. **origin:** Yugoslavia. **collected:** August 1988. **collector id:** S-40. **locality:** Veljaci. The road between Ljnbuski and Vrgorac along Trebizet River, Hercegovia Republic. **elevation:** 600m. **Seed.**

PI 542794. Medicago lupulina L. FABACEAE Black medic

**Donated by:** Taylor, N.L., Univ. of Kentucky, Dept. of Agronomy, N-122 Ag. Sc. Bldg.-N, Lexington, Kentucky, United States; and Smith, R.R., ARS-USDA, Midwest Area U.S. Dairy Forage Res. Ctr., Univ. of Wisconsin, 1925 Linden Dr.-W, Madison, Wisconsin, United States. Received October 1989.

**donor id:** T-52. **origin:** Yugoslavia. **collected:** August 1988. **collector id:** T-52. **locality:** 500m from hotel at Vlasic Mt., Bosnia Republic. **elevation:** 1550m. **Seed.**

PI 542795 to 542800. Medicago sp. FABACEAE

**Donated by:** Taylor, N.L., Univ. of Kentucky, Dept. of Agronomy, N-122 Ag. Sc. Bldg.-N, Lexington, Kentucky, United States; and Smith, R.R., ARS-USDA, Midwest Area U.S. Dairy Forage Res. Ctr., Univ. of Wisconsin, 1925 Linden Dr.-W, Madison, Wisconsin, United States. Received October 1989.

PI 542795 **donor id:** T-39. **origin:** Yugoslavia. **collected:** August 1988. **collector id:** T-39. **locality:** On route 17 from Mostar to Sarajevo 73km from Mostar at Jablanica, Hercegovia Republic. **elevation:** 500m. **Seed.**

PI 542796 **donor id:** S-8. **origin:** Yugoslavia. **collected:** August 1988. **collector id:** S-8. **locality:** Road from Jurjeo to Krasno, 6km from Jurjeo Route 6, Croatia Republic. **elevation:** 300m. **Seed.**

PI 542797 **donor id:** S-35. **origin:** Yugoslavia. **collected:** August 1988. **collector id:** S-35. **locality:** Village of Gornje Postinge near Split (30km from Split, Route #29), Croatia Republic. **elevation:** 440m. **remarks:** Plants large. **Seed.**


PI 542801.  Melilotus sp.  FABACEAE


PI 542802 to 542812.  Trifolium alpestre L.  FABACEAE  Mountain clover


PI 542813 to 542816. Trifolium angustifolium L. FABACEAE White clover

PI 542813 to 542816-continued


PI 542817 to 542818. Trifolium arvense L.  FABACEAE


PI 542819. Trifolium bocconei Savi  FABACEAE

PI 542820 to 542826. Trifolium campestre Schreber  FABACEAE Large hop clover


PI 542827 to 542829. *Trifolium fragiferum* L. FABACEAE Strawberry
clover

**Donated by:** Taylor, N.L., Univ. of Kentucky, Dept. of Agronomy,
N-122 Ag. Sc. Bldg.-N, Lexington, Kentucky, United States; and
Smith, R.R., ARS-USDA, Midwest Area U.S. Dairy Forage Res. Ctr.,
Univ. of Wisconsin, 1925 Linden Dr.-W, Madison, Wisconsin, United
States. Received October 1989.

PI 542827  
**donor id:** T-31.  
**origin:** Yugoslavia.  
**collected:** August 1988.  
**collector id:** T-31.  
**locality:** Veljaci. The road between Ljn buski and Vrgorac along Trebizet River, Hercegovia Republic.  
**elevation:** 600m. Wild. Seed.

PI 542828  
**donor id:** S-37.  
**origin:** Yugoslavia.  
**collected:** August 1988.  
**collector id:** S-37.  
**locality:** Town of Turjaci, road to Imostki from Split, Route 61/15, Croatia Republic.  
**elevation:** 260m. Wild. Seed.

PI 542829  
**donor id:** ST-1.  
**origin:** Yugoslavia.  
**collected:** August 1988.  
**collector id:** ST-1.  
**locality:** West Zagreb, Spansko, Croatia Republic.  
**elevation:** 400m. Wild. Seed.

PI 542830. *Trifolium hybridum* L. FABACEAE Alsike clover

**Donated by:** Taylor, N.L., Univ. of Kentucky, Dept. of Agronomy,
N-122 Ag. Sc. Bldg.-N, Lexington, Kentucky, United States; and
Smith, R.R., ARS-USDA, Midwest Area U.S. Dairy Forage Res. Ctr.,
Univ. of Wisconsin, 1925 Linden Dr.-W, Madison, Wisconsin, United
States. Received October 1989.

**donor id:** T-61.  
**origin:** Yugoslavia.  
**collected:** August 1988.  
**collector id:** T-61.  
**locality:** Kupres plain, 4km from Kupres on road to Lwno, Brosnia, Bosnia Republic.  
**elevation:** 1140m. Wild. Seed.

PI 542831 to 542832. *Trifolium longidentatum* Nab. FABACEAE

**Donated by:** Taylor, N.L., Univ. of Kentucky, Dept. of Agronomy,
N-122 Ag. Sc. Bldg.-N, Lexington, Kentucky, United States; and
Smith, R.R., ARS-USDA, Midwest Area U.S. Dairy Forage Res. Ctr.,
Univ. of Wisconsin, 1925 Linden Dr.-W, Madison, Wisconsin, United
States. Received October 1989.

**donor id:** T-56.  
**origin:** Yugoslavia.  
**collected:** August 1988.  
**collector id:** T-56.  
**locality:** Route 16 Koprivnica District. Porice Road between Bu Guyno and Kupres, Bosnia Republic.  
**elevation:** 940m. Wild. Seed.
PI 542832


PI 542833 to 542838. Trifolium medium L. FABACEAE Zigzag clover


PI 542833
donor id: T-42. origin: Yugoslavia. collected: August 1988. collector id: T-42. locality: Sokolac to Pjerak Han Road near Village Luburic Polye, Bosnia Republic. elevation: 950m. Wild. Seed.

PI 542834

PI 542835

PI 542836

PI 542837

PI 542838

PI 542839 to 542861. Trifolium montanum L. FABACEAE

PI 542839 to 542861-continued


PI 542849  donor id: S-84.  origin: Yugoslavia.  collected: August 1988.  collector id: S-84.  locality: Gornji Malovan Road, Kupres to Livnd, Road 16, Bosnia Republic.  elevation: 1005m.  Wild.  Seed.


PI 542839 to 542861-continued


PI 542862 to 542863.  Trifolium ochroleucum Hudson  FABACEAE


PI 542864.  Trifolium pallidum Waldst. & Kit.  FABACEAE


PI 542865. Trifolium pannonicum Jacq. FABACEAE Hungarian clover


PI 542866 to 542900. Trifolium pratense L. FABACEAE Red clover


PI 542869 donor id: T-64. origin: Yugoslavia. collected: August 1988. collector id: T-64. locality: Gornji Malovan Road, Kupres to Livnd, Road 16, Bosnia Republic. elevation: 1005m. Wild. Seed.


PI 542892  donor id: ST-15.  origin: Yugoslavia.  collected: August 1988.  collector id: ST-15.  locality: 17km, 600m from Jurjevo, Route 6, approx. 0.5km S of Krasno, Croatia Republic.  elevation: 990m.  Wild.  Seed.
PI 542866 to 542900—continued


PI 542901 to 542916. Trifolium repens L. FABACEAE Dutch clover


PI 542917 to 542925.  Trifolium rubens L.  FABACEAE


PI 542917 to 542925-continued

PI 542919

PI 542920

PI 542921

PI 542922

PI 542923

PI 542924

PI 542925

PI 542926 to 542929. Trifolium scabrum L. FABACEAE Rough clover


PI 542926
donor id: T-7. origin: Yugoslavia. collected: August 1988. collector id: T-7. locality: Road from Jurjjeo to Krasno, 6km from Jurjjeo Route 6, Croatia Republic. elevation: 300m. Wild. Seed.


PI 542930 to 542932. Trifolium sp. FABACEAE


PI 542931  donor id: S-60. origin: Yugoslavia. collected: August 1988. collector id: S-60. locality: Sokolac to Pjerak Han Road near Village Luburic Polye, Bosnia Republic. elevation: 950m. Wild. Seed.


PI 542933 to 542934. Trifolium trichopterum Pancic FABACEAE


PI 542935 to 542936. UNDETERMINED sp. NONE


PI 542937 to 542959. Zea mays L. subsp. mays POACEAE Corn

Donated by: West, D.R., Plant & Soil Science Dept., P.O. Box 1071, Knoxville, Tennessee, United States. Received May 30, 1990.


PI 542960. Arachis hypogaea L. subsp. hypogaea FABACEAE Peanut

**Donated by:** Branch, W.D., Georgia Agr. Exp. Stas., University of Georgia, Tifton, Georgia, United States. **Remarks:** Georgia Runner Peanut. Received July 30, 1990.

- **Origin:** United States. **Origin Institute:** Georgia Agr. Exp. Stas., University of Georgia, Tifton, Georgia 31793-0748. **Cultivar:** GEORGIA RUNNER. **Pedigree:** Spanish mutant-type, Krinkle-leaf/PI 331334. **Other ID:** CV-41. **Group:** CSR-PEANUT. **Remarks:** Highly productive runner type with large percentage of jumbo runner seed. Four year (1986-89) mean field performance (20 tests) found significantly higher yield and dollar return by approximately 5%, respectively, over cultivar Florunner. Significantly higher percentage (ca. 7%) of extra large seed (>0.85 x 2.54 cm screen) than Florunner. Typical runner growth habit with large proportion. Cultivar. Seed.

PI 542961. Arachis hypogaea L. FABACEAE Peanut

**Donated by:** Branch, W.D., Georgia Agr. Exp. Sta., University of Georgia, Tifton, Georgia, United States; and Agricultural Research Service -- USDA. **Remarks:** CPES Peanut Germplasm Population. Received July 30, 1990.

- **Origin:** United States. **Origin Institute:** Georgia Agr. Exp. Stas., University of Georgia, Tifton, Georgia 31793-0748. **Cultivar:** CONVERGENT PEANUT EARLY-SEGREGATING. **Pedigree:** Sixteen diverse parental lines. **Other ID:** GP-55. **Group:** CSR-PEANUT. **Remarks:** Unselected broad-base germplasm material developed by composting F2-generation progenies which were systematically bulked for subsequent disease and insect screening. Variability includes an array of characteristics such as growth habit, maturity, pod shape, seed size, testa color, etc. Convergent hybridization scheme included four different crossing cycles and. Breeding Material. Seed.

PI 542962. Sorghum bicolor (L.) Moench POACEAE Sudangrass

**Donated by:** York, J.O., Arkansas Agricultural Experiment Sta., Plant Science 115, Fayetteville, Arkansas, United States. Received June 28, 1990.
PI 542962-continued

origin institute: Delta Branch Experiment Station, Stoneville, Mississippi. 
cultivar: STONEVILLE SYNTHETIC. 
remarks: Coarse sudangrass with small, round seed that thresh free of glumes. Brownish white percarp, starch mesocarp, and black glumes. Panical type is open. Panicle does not clear the sheath, approximately 5cm of the panicle remaining in the sheath. Height averages 135cm. Flowers approximately 82 days after emergence. Resistant to Sorghum downy mildew (Peronosclerospora sorghi). Developed for its resistance to. Spring Annual. 
Breeding Material. Seed.

PI 542963. Centrosema plumieri (Turpin ex Pers.) Benth. FABACEAE

Donated by: Michaud, M., University of Virgin Islands, St. Croix, Virgin Islands. Received August 21, 1989.

locality: Roadside, Route 4, km 30, 3km after San Pedro de Macoris, towards Hato Mayor.

PI 542964. Saccharum hybrid POACEAE Sugarcane

Donated by: Legendre, B.L., Agricultural Research Service -- USDA, Sugarcane Research Unit, Houma, Louisiana, United States; and Estacion Experimental Agro-Industrial, "Obispo Colombres". remarks: TUCCP 77-42 Sugarcane. Received June 27, 1990.

cultivar: TUCCP 77-42. pedigree: CP 71-321/US 72-19. other id: CV-83. group: CSR-SUGARCANE. 
PI 542965. Trifolium ambiguum M. Bieb. FABACEAE Kura clover

Donated by: Rumbaugh, M.D., Agricultural Research Service -- USDA, Forage and Range Research Lab., Utah State University, Logan, Utah, United States; and Soil Conservation Service - USDA; and Utah Agr. Exp. Sta.. remarks: ARS-2678 Kura Clover. Received June 27, 1990.


PI 542966. Stenotaphrum secundatum (Walter) Kuntze POACEAE

Donated by: Riordan, T.P., O.M. Scott and Sons, Dept. of Horticulture, University of Nebraska, Lincoln, Nebraska, United States. remarks: Dal Mar St. Augustine Grass. Received June 27, 1990.

origin: United States. origin institute: O.M. Scott and Sons, Marysville, Ohio 43042. cultivar: DEL MAR. pedigree: Selected from controlled pollination of Seville. other id: CV-138. group: CSR-OTHER GRASSES. remarks: Good turf quality characteristics throughout year. Color green throughout growing season and not as purple in stem as most other St. Augustinegrasses. Produces few flowering spikes. Resistant to decline virus and gray leafspot (Pyricularia grisea) and dollar spot (Curvalaria sp.). Tolerance to chinchbugs (Blissus sp.) and sod webworm (Cranbus sp.). Cultivar. Plant.

PI 542967 to 542968. Medicago sativa L. FABACEAE Alfalfa

PI 542967

PI 542968
origin: United States. origin institute: Wisconsin Agr. Exp. Sta., University of Wisconsin, Agronomy Dept., Madison, Wisconsin 53706. cultivar: W4Xiso-l. other id: GP-240. group: CSR-ALFALFA. remarks: Developed for comparative research or diploids and tetraploids. Three cut alfalfa in Wisconsin. Some CADL parents were heterozygous for certain qualitative traits and the generation of 2Xiso-l used for seed increase segregated for the following traits in 100 plant sample: cream flowers (2%), white flowers (1%), male sterile (2%), 2n pollen (2%), and dark brown seed (1%). One tetraploid from union of 2n. Breeding Material. Seed.

PI 542969 to 542970. Glycine max (L.) Merr. FABACEAE Soybean


PI 542969
PI 542969 to 542970-continued


PI 542971. Beta vulgaris L. CHENOPODIACEAE Sugarbeet

Donated by: Hecker, R.J., Agricultural Research Service -- USDA, Crops Research Laboratory, 1701 Center Avenue, Fort Collins, Colorado, United States; and Beet Sugar Development Foundation. remarks: FC710 Sugarbeet Germplasm. Received August 01, 1990.

origin: United States.  origin institute: Agricultural Research Service -- USDA, Crops Research Laboratory, 1701 Center Avenue, Fort Collins, Colorado 80526.  cultivar: FC710.  pedigree: Eleven cycles of selection for Rhizoctonia resistance from an original population that was 42% U.S. cultivars, 28% leafspot and blackroot tolerant germplasms, and 30% reciprocal B. maritima/sugarbeet hybrids.  other id: GP-133.  group: CSR-SUGARBEET.  remarks: Diploid multigerm germplasm resistant to root rot (Rhizoctonia solani) developed for use as a pollinator or as a source germplasm in breeding of Rhizoctonia-resistant hybrid cultivars. Developed by nine cycles of mass selection for resistance and two cycles of recurrent selection. Biennial. Breeding Material. Seed.

PI 542972. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Co, Inc, United States. Received July 1990.


PI 542973. Gossypium hirsutum L. MALVACEAE Cotton

Donated by: Cargill Hybrid Seeds, United States. Received June 29, 1990.
PI 542973-continued


PI 542974. Gossypium hirsutum L. MALVACEAE Cotton

Donated by: Cargill Hybrid Seeds, United States. Received June 29, 1990.


PI 542975. Triticum aestivum L. POACEAE Common wheat

Donated by: Northrup King Co, United States. Received June 29, 1990.


PI 542976. Triticum aestivum L. POACEAE Common wheat

Donated by: Plant Breeders 1, Inc, United States. Received July 5, 1990.


PI 542977. Capsicum annuum L. SOLANACEAE Bell pepper

Donated by: Petoseed Company, INC, United States. Received July 5, 1990.


PI 542978. Gossypium barbadense L. MALVACEAE Sea Island cotton

Donated by: Chandy Ranch Research, United States. Received July 1990.
PI 542978-continued


PI 542979. Triticum aestivum L. POACEAE Common wheat

Donated by: Northrup King Co, United States. Received July 12, 1990.


PI 542980. Lolium perenne L. POACEAE Perennial ryegrass

Donated by: Seaboard Seed/ Smith Seed, United States. Received July 16, 1990.


PI 542981. Lolium perenne L. POACEAE Perennial ryegrass

Donated by: Seaboard Seed Co./ Smith Seed Services, United States. Received July 16, 1990.


PI 542982. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Jacob Hartz Seed Co. Inc, United States. Received July 1990.


PI 542983 to 542984. Brassica napus L. BRASSICACEAE Winter rape

PI 542983 to 542984-continued

PI 542983  
origin: United States.  
cultivar: TRI-CASCADE.  
pedigree: Synthetic with four parental lines (WRE-6, WRE-12, WRE-20, WRE-28).  
Four parental lines were derived from four backcrosses to OAC Triton (A triazine tolerant spring rapeseed from Guelph, Ontario, Canada.  
other id: GP-3.  
group: CSR-RAPESEED.  
remarks: Triazine tolerant analogue of Cascade (PI 509072) (Crop Science Registration No. 5).  
BC4 derived synthetic which is near, isonuclear population of Cascade.  
Seed yield potential 80% of Cascade and similar oil content.  
Biennial.  
Breeding Material.  
Seed.

PI 542984  
origin: United States.  
cultivar: TRI-BRIDGER.  
pedigree: Synthetic with four parental lines (WRI-2, WRI-3, WRI-6, WRI-8).  
Four parental lines were derived from four backcrosses to OAC Triton (A triazine tolerant spring rapeseed from Guelph, Ontario, Canada.  
other id: GP-4.  
group: CSR-RAPESEED.  
remarks: Triazine tolerant analogue of Bridger (PI 509073) (Crop Science Registration No. 6).  
BC4 derived synthetic which is near, isonuclear population of Bridger.  
Seed yield potential 81% of Bridger and similar oil content.  
Biennial.  
Breeding Material.  
Seed.

PI 542985 to 542994. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by:  
Kofojd, K.D., Kansas Agr. Exp. Sta., Fort Hays Branch,  
Hays, Kansas, United States.  
remarks: Ten Greenbug Resistant Sorghum Germplasm Lines.  
Received August 02, 1990.

PI 542985  
origin: United States.  
cultivar: KS 84R.  
other id: 895501.  
other id: GP-348.  
group: CSR-SORGHUM.  
remarks: Restorer line in the Al cytoplasm of sorghum.  
Resistant to biotype E greenbug (Schizaphis graminum).  
Mosaic reaction when infected with maize dwarf virus strain B.  
Maturity medium.  
3-dwarf line.  
Seed red.  
Endosperm normal.  
No pigmented testa layer.  
Spring Annual.  
Breeding Material.  
Seed.
PI 542985 to 542994-continued

PI 542986  
**origin:** United States.  
**origin institute:** Kansas Agr. Exp. Sta., Fort Hays Branch, RR #2, Hays, Kansas 67601.  
**cultivar:** KS 85R.  
**pedigree:** WIRU/KS 56 B/3/KS 65 A//alal KP 6BR/SARVASI.  
**other id:** 895502.  
**other id:** GP-349.  
**group:** CSR-SORGHUM.  
**remarks:** Restorer line in the Al cytoplasm of sorghum. Resistant to biotype E greenbug (Schizaphis graminum). Mosaic reaction when infected with maize dwarf virus strain B. Maturity medium. 3-dwarf line. Seed red. Endosperm normal. No pigmented testa layer. Spring Annual. Breeding Material. Seed.

PI 542987  
**origin:** United States.  
**origin institute:** Kansas Agr. Exp. Sta., Fort Hays Branch, RR #2, Hays, Kansas 67601.  
**cultivar:** KS 86R.  
**pedigree:** KS 66 B/KS 65 B/3/KS 65 A//alal KP 6BR/SARVASI.  
**other id:** 895503.  
**other id:** GP-350.  
**group:** CSR-SORGHUM.  

PI 542988  
**origin:** United States.  
**origin institute:** Kansas Agr. Exp. Sta., Fort Hays Branch, RR #2, Hays, Kansas 67601.  
**cultivar:** KS 87R.  
**pedigree:** ms3ms3 KS 57 B/4/ms3ms3KS 56 B/3/KS 65 A//alal KP 6BR/SARVASI.  
**other id:** 895504.  
**other id:** GP-351.  
**group:** CSR-SORGHUM.  
**remarks:** Restorer line in the Al cytoplasm of sorghum. Resistant to biotype E greenbug (Schizaphis graminum). Mosaic reaction when infected with maize dwarf virus strain B. Maturity medium late. 3-dwarf line. Seed white. Endosperm normal. No pigmented testa layer. Spring Annual. Breeding Material. Seed.

PI 542989  
**origin:** United States.  
**origin institute:** Kansas Agr. Exp. Sta., Fort Hays Branch, RR #2, Hays, Kansas 67601.  
**cultivar:** KS 88R.  
**pedigree:** ms3ms3 KS 56 B/4/ms3ms3NP2B/3/KS 65 A//alal KP 6BR/SARVASI.  
**other id:** 895505.  
**other id:** GP-352.  
**group:** CSR-SORGHUM.  
**remarks:** Restorer line in the Al cytoplasm of sorghum. Resistant to biotype E greenbug (Schizaphis graminum). Mosaic reaction when infected with maize dwarf virus strain B. Maturity medium. 3-dwarf line. Seed red. Endosperm normal. No pigmented testa layer. Spring Annual. Breeding Material. Seed.
PI 542990  
**origin**: United States.  
**origin institute**: Kansas Agr. Exp. Sta., Fort Hays Branch, RR #2, Hays, Kansas 67601.  
**cultivar**: KS 89R.  
**pedigree**: ms3ms3 KS 56 B/4/ms3ms3NP2B/3/KS 65 A///alal KP 6BR/SARVASI.  
**other id**: 895506.  
**other id**: GP-353.  
**group**: CSR-SORGHUM.  

PI 542991  
**origin**: United States.  
**origin institute**: Kansas Agr. Exp. Sta., Fort Hays Branch, RR #2, Hays, Kansas 67601.  
**cultivar**: KS 90R.  
**pedigree**: mscmsc unknown F2 plant/6/KS 65 A///alal KP 6BR/SARVASI.  
**other id**: 895507.  
**other id**: GP-354.  
**group**: CSR-SORGHUM.  

PI 542992  
**origin**: United States.  
**origin institute**: Kansas Agr. Exp. Sta., Fort Hays Branch, RR #2, Hays, Kansas 67601.  
**cultivar**: KS 91R.  
**other id**: 895508.  
**other id**: GP-355.  
**group**: CSR-SORGHUM.  

PI 542993  
**origin**: United States.  
**origin institute**: Kansas Agr. Exp. Sta., Fort Hays Branch, RR #2, Hays, Kansas 67601.  
**cultivar**: KS 92R.  
**other id**: 895509.  
**other id**: GP-356.  
**group**: CSR-SORGHUM.  
PI 542985 to 542994—continued

Breeding Material. Seed.

PI 542995. Medicago sativa L.  FABACEAE Alfalfa


Received August 03, 1990.


PI 542996. Medicago sativa L.  FABACEAE Alfalfa


Received August 03, 1990.
PI 542996-continued


PI 542997 to 543005. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: York, J.O., Arkansas Agricultural Experiment Station, Plant Science 115, Fayetteville, Arkansas, United States. Received August 03, 1990.


PI 543000  origin: United States.  cultivar: B LINE AR 3035.  
pedigree: CK60/*2AK 3003.  other id: Ark 1026.  remarks: 
3-dwarf line that is sterilized with Al cytoplasm. Pericarp 
white, mesocarp starchy, glumes black. Panicle 
exerted above flag leaf (5cm). Panicle open. Plant height 
approximately 122cm. Flowers approximately 74 days. 
Exceptionally clean of all leaf diseases. Stalks are 
juicy. Plants produce few tillers. Spring Annual. 
Breeding Material. Seed.

PI 543001  origin: United States.  cultivar: B LINE AK 3002.  
pedigree: Selection from Indonesian cultivar Malang (PI 
192878).  remarks: 3-dwarf B line that is sterilized with 
Al cytoplasm. Pericarp red, mesocarp starchy, and glumes 
mahogany. Panicle exerted above the flag leaf (16cm). 
Panicle compact at physiological maturity. Plant height 
approximately 122cm. Flowers approximately 72 days after 

PI 543002  origin: United States.  cultivar: B LINE AR 3003.  
pedigree: S.A. 7770-3-3-4 (Combine Schrock).  remarks: 
3-dwarf B line that is sterilized with Al cytoplasm. Pericarp 
brownish pink, mesocarp starchy, testa brown, and 
glumes black. Panicle does not clear sheath (4cm). 
Panicle open. Plant height approximately 92cm. Flowers 
approximately 76 days after emergence. Hybrids extremely 

PI 543003  origin: United States.  cultivar: B LINE AR 3004.  
pedigree: TAM617/XTX378 Redlan.  remarks: 3-dwarf B line 
sterilized with Al cytoplasm. Pericarp red, mesocarp 
starchy, and glumes mahogany. Panicle exerted above the 
flag leaf (9cm). Panicle semi-open. Plant height 
approximately 122cm. Flowers approximately 76 days after 

PI 543004  origin: United States.  cultivar: B LINE AR 3005.  
pedigree: Selection from (S57-10)-1.  remarks: Pericarp 
brownish red, mesocarp starchy, testa brown, and glumes 
straw colored. Panicle exerted above the flag leaf 
(18cm). Panicle open. Plant height approximately 142cm. 
Flowers approximately 78 days after emergence. Moderate 
resistance to maize dwarf mosaic virus disease A. Spring 
PI 542997 to 543005—continued

PI 543005  
**origin:** United States.  **cultivar:** B LINE AR 3013.  
**pedigree:** CK60/TS313 (Early Hegari).  **remarks:** Line developed as seed parent for leafy and late silage sorghum hybrids. Pericarp white and pearly, glumes black. Grain contains a brown spot. Panicle exerted above the flag leaf (3cm). Panicle semi-open. Plant height approximately 119cm. Flowers approximately 78 days. Spring Annual. Breeding Material. Seed.

PI 543006. Helianthus annuus L. ASTERACEAE Sunflower

**Donated by:** Auld, D. L., Idaho Agr. Exp. Sta., University of Idaho, Moscow, Idaho, United States; and Agricultural Research Service -- USDA. **remarks:** ID-ERLYC Sunflower Germplasm. Received August 03, 1990.

**origin:** United States. **origin institute:** Idaho Agr. Exp. Sta., University of Idaho, Dept. of Plant, Soil and Ent. Sci., Moscow, Idaho 83843. **cultivar:** ID-ERLYC. **pedigree:** Composite made from S4 plant selected from 39 S3 selections. **other id:** GP-128. **group:** CSR-SUNFLOWER. **remarks:** ID-ERLYC is an S4 composite selected for early bloom and short plant stature under the cold conditions of northern Idaho. Plant height ranges from 40-82cm and in this climate will bloom 63-91 days after planting. Spring Annual. Breeding Material. Seed.

PI 543007. Triticum aestivum L. POACEAE Common wheat

**Donated by:** Texas Agricultural Experiment Station, P.O. Box 1658, Vernon, Texas, United States. Received August 03, 1990.

**origin:** United States. **cultivar:** SIOUXLAND 89. **other id:** PVP 9100006. **source:** Pending. **group:** PVPO. Cultivar. Seed.

PI 543008. Zea mays L. subsp. mays POACEAE Corn

**Donated by:** Moll, R.H., North Carolina Agr. Res. Service, North Carlina State University, Dept. of Genetics, Box 7614, Raleigh, North Carolina, United States. **remarks:** NC201 Maize Parental Line. Received August 03, 1990.
PI 543008-continued

cultivar: NC201. pedigree: NC 201 = IR10 (1202-2)-S8.
other id: PL-153. group: CSR-MAIZE. remarks: A prolific yellow dent inbred of maize (AE 1100), selected for nitrogen use efficiency. In SE USA: 70 days to mid-silk, plant height 199cm, ear height 75cm, yellow anthers, green glumes, 19-20 tassel branches, yellow endosperm, white aleurone, colorless pericarp, seed weight 24g/100. Breeding Material. Seed.

PI 543009 to 543012. Cicer arietinum L. FABACEAE Chickpea

Donated by: Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.


PI 543013 to 543028. Lupinus albus L. FABACEAE White lupine

Donated by: Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.


PI 543029 to 543030. Lupinus angustifolius L. FABACEAE Blue lupine

Donated by: Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.

PI 543029


PI 543030

collector id: 870601-70. other id: W6-2671. Cultivated. Seed.

PI 543031. Lupinus hispanicus Boiss. & Reuter FABACEAE White lupine

Donated by: Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.


PI 543032. Lupinus sp. FABACEAE

Donated by: Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.


PI 543033. Medicago lupulina L. FABACEAE Black medic

Donated by: Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.
PI 543033-continued

**donor id:** 870530-02. **origin:** Spain. **collected:** May 30, 1987. **collector id:** 870530-02. **other id:** W6-2675. **locality:** Edge of broadbean planting, next to Generalife, at the La Alhambra, Granada Province. **elevation:** 900m. Wild. Seed.

PI 543034. *Medicago orbicularis* (L.) Bartal. FABACEAE Buttonclover

**Donated by:** Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.

**donor id:** 870530-10. **origin:** Spain. **collected:** May 30, 1987. **collector id:** 870530-10. **other id:** W6-2676. **locality:** Olive grove 500m from Generalife, within 200m of the Washington Irving Hotel, at the La Alhambra, Granada Province. **elevation:** 900m. **remarks:** Plants semi-prostrate. Pods conical with no spines, dark brown at maturity. Wild. Seed.

PI 543035 to 543036. *Medicago polymorpha* L. FABACEAE California burclover

**Donated by:** Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.

**PI 543035** **donor id:** 870523-11. **origin:** Spain. **local name:** Mielga. **collected:** May 23, 1987. **collector id:** 870523-11. **other id:** W6-2677. **locality:** Edge of wheat field, near Montilla, Cordoba Province. **elevation:** 300m. **remarks:** Pods spiny. Wild. Seed.

**PI 543036** **donor id:** 870523-14. **origin:** Spain. **local name:** Mielga. **collected:** May 23, 1987. **collector id:** 870523-14. **other id:** W6-2678. **locality:** Edge of chickpea field, 3km N of Montilla, Cordoba Province. **elevation:** 300m. Wild. Seed.

PI 543037. *Medicago polymorpha* var. *vulgaris* (Benth.) Shinn., nom. illeg. FABACEAE

**Donated by:** Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.
PI 543037-continued

donor id: 870530-09. origin: Spain. collected: May 30, 1987. collector id: 870530-09. other id: W6-2674. locality: Olive grove about 500m from Generalife, within 200m of the Washington Irving Hotel, at the La Alhambra, Granada Province. remarks: Pods smaller than PI 543040, can be borne in clusters, spiny. received as: M. hispida. Wild. Seed.

PI 543038 to 543041. Medicago sp. FABACEAE

Donated by: Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.

PI 543038

PI 543039

PI 543040

PI 543041

PI 543042. Medicago truncatula Gaertner FABACEAE Barrel medic

Donated by: Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.
PI 543042-continued


PI 543043 to 543047.  Phaseolus vulgaris L. var. vulgaris  FABACEAE  Garden bean

Donated by: Kaiser, W.J., Western Regional PI Station, USDA-ARS, Rm. 59, Johnson Hall, Washington State University, Pullman, Washington, United States.  Received May 17, 1990.


PI 543048 to 543049.  Allium sativum L.  LILIACEAE  Garlic

Donated by: Kaiser, W.J., Western Regional PI Station, Room 59, Johnson Hall, Washington State University, Pullman, Washington, United States.  Received May 17, 1990.
PI 543048 to 543049-continued


PI 543050 to 543065. Cicer arietinum L. FABACEAE Chickpea

Donated by: Kaiser, W.J., Western Regional PI Station, Room 59, Johnson Hall, Washington State University, Pullman, Washington, United States. Received May 17, 1990.


PI 543066 to 543070. Lens culinaris Medikus  FABACEAE  Chickpea

Donated by:  Kaiser, W.J., Western Regional PI Station, Room 59, Johnson Hall, Washington State University, Pullman, Washington, United States.  Received May 17, 1990.


PI 543071.  Lathyrus sativus L.  FABACEAE  Grass pea

Donated by:  Kaiser, W.J., Western Regional PI Station, Room 59, Johnson Hall, Washington State University, Pullman, Washington, United States.  Received May 17, 1990.


PI 543072 to 543073.  Trigonella foenum-graecum L.  FABACEAE  Fenugreek

Donated by:  Kaiser, W.J., Western Regional PI Station, Room 59, Johnson Hall, Washington State University, Pullman, Washington, United States.  Received May 17, 1990.

PI 543072 to 543073-continued

PI 543073  
**donor id:** WKP-88-17.  
**origin:** Pakistan.  
**collected:** October 19, 1988.  
**collector id:** WKP-88-17.  
**locality:** Jomah market, Islamabad, Punjab Province.  
**Cultivated.**  
**Seed.**

PI 543074 to 543175. Sorghum bicolor (L.) Moench  
POACEAE

**Donated by:** Voigt, R. L., University of Arizona, USAID  
Sorghum/Millet Program, Tucson, Arizona, United States.  
Received July 30, 1990.

PI 543074  
**donor id:** 794.  
**origin:** Yemen Arab Republic.  
**locality:** Al Bayda Alzaher.  
**elevation:** 2090m.  
**remarks:** Race - Caudatum durra.  
Head type 5 - semi-compact, ovate.  
Seed yellow.  
**Cultivated.**  
**Seed.**

PI 543075  
**donor id:** 1118.  
**origin:** Yemen Arab Republic.  
**locality:** Al Bayda Alzaher.  
**elevation:** 2090m.  
**remarks:** Race - Caudatum durra.  
Head type 6 - semi-compact, elliptical.  
Seed light red.  
**Cultivated.**  
**Seed.**

PI 543076  
**donor id:** 1872.  
**origin:** Yemen Arab Republic.  
**locality:** Al Bayda Alzaher.  
**elevation:** 2090m.  
**remarks:** Race - Caudatum durra.  
Head type 4 - semi-open, elongated, elliptical.  
Seed light red.  
**Cultivated.**  
**Seed.**

PI 543077  
**donor id:** 2633.  
**origin:** Yemen Arab Republic.  
**locality:** Al Bayda Alzaher.  
**elevation:** 2100m.  
**remarks:** Race - Caudatum.  
Head type 5 - semi-compact, ovate.  
Seed white.  
**Cultivated.**  
**Seed.**

PI 543078  
**donor id:** 3056.  
**origin:** Yemen Arab Republic.  
**locality:** Al Bayda Alzaher.  
**elevation:** 2100m.  
**remarks:** Race - Caudatum durra.  
Head type 5 - semi-compact, ovate.  
Seed light brown.  
**Cultivated.**  
**Seed.**

PI 543079  
**donor id:** 3118.  
**origin:** Yemen Arab Republic.  
**locality:** Al Bayda Alzaher.  
**elevation:** 2100m.  
**remarks:** Race - Kafir.  
Head type 4 - semi-open, elongated, elliptical.  
Seed light yellow.  
**Cultivated.**  
**Seed.**

PI 543080  
**donor id:** 3166.  
**origin:** Yemen Arab Republic.  
**locality:** Al Bayda Alzaher.  
**elevation:** 2100m.  
**remarks:** Race - Durra kafir.  
Head type 4 - semi-open, elongated, elliptical.  
Seed brown.  
**Cultivated.**  
**Seed.**

PI 543081  
**donor id:** 3179.  
**origin:** Yemen Arab Republic.  
**locality:** Al Bayda Alzaher.  
**elevation:** 2100m.  
**remarks:** Race - Caudatum durra.  
Head type 4 - semi-open, elongated, elliptical.  
Seed white.  
**Cultivated.**  
**Seed.**
PI 543074 to 543175-continued


<table>
<thead>
<tr>
<th>PI 543074 to 543175-continued</th>
</tr>
</thead>
</table>
PI 543074 to 543175-continued


PI 543074 to 543175-continued

PI 543172  
donor id: 4528.  
origin: Yemen Arab Republic.  
locality: Al Bayda Al Matar.  
elevation: 2010m.  
remarks: Race - Bicolor.  
Head type 3 - open, elongated, elliptical.  
Seed yellow.  
Cultivated.  
Seed.

PI 543173  
donor id: 4566.  
origin: Yemen Arab Republic.  
locality: Al Bayda Alsharyah.  
elevation: 2010m.  
remarks: Race - Durra caudatum.  
Head type 5 - semi-compact, ovate.  
Seed yellow.  
Cultivated.  
Seed.

PI 543174  
donor id: 4575.  
origin: Yemen Arab Republic.  
locality: Al Bayda Awen.  
elevation: 2010m.  
remarks: Race - Durra caudatum.  
Head type 5 - semi-compact, ovate.  
Seed yellow.  
Cultivated.  
Seed.

PI 543175  
donor id: 4576.  
origin: Yemen Arab Republic.  
locality: Al Bayda Awen.  
elevation: 2140m.  
remarks: Race - Durra kafir.  
Head type 5 - semi-compact, ovate.  
Seed light yellow.  
Cultivated.  
Seed.

PI 543176. Ulmus parvifolia Jacq. ULMACEAE Lacebark elm


donor id: NA 55345.  
origin: United States.  
cultivar: PATHFINDER.  
pedigree: Clonal selection at the USDA Nursery Crops Res. Lab., Delaware, Ohio from a seedling population of unknown origin.  
remarks: Tree vase-shaped, pendulous crown. Height 11.3m and crown spread 9.7m at 27 years of age. Bark has lacebark quality, mixed colors and textures. Outer bark varies from black (202C) to grey (201C), and greyed green (195A) but flakes off with age, revealing a grey orange (165B) color. Leaves typical for species, greyed red (178A) color in autumn. Fruits red purple (59A), ripens in mid-October in Ohio. Cold. Tree.  
Cultivar.  
Plant.

PI 543177. Cajanus cajan (L.) Millsp. FABACEAE


PI 543178 to 543208. Capsicum sp. SOLANACEAE


PI 543181  donor id: 748.  origin: Bolivia.  local name: Aji (Spanish) bido (Tacana).  collected: October 15, 1988.  collector id: 748.  locality: Carmen Florida, small village on right bank of Rio Beni, 5km upriver from Rurrenabaque, Beni Department, Ballivian Province.  latitude: 14 deg. 30 min. S.  longitude: 67 deg. 30 min. W.  elevation: 320m.  remarks: Shrub to 1.5m tall.  Fruits green, then red, 5cm long, somewhat ribbed, irregularly shaped, acuminate near stigma scar. Seeds white. Cultivated in chacos for market by acculturated Tacanas. Seeds may be mixed with those of no. 749. Cultivated. Seed.


PI 543184  donor id: 772.  origin: Bolivia.  local name: Aji (Spanish), Bido (Tacana), Uchu (Quechua).  collected: October 24, 1988.  collector id: 772.  locality: San Jose de Uchupiamonas, Tacana and Quechua Indian town, 35km W of Tumupasa on foot trail, on high bench over the Rio Tuichi, La Paz Department, Iturralde Province.  latitude: 14 deg. 15 min. S.  longitude: 68 deg. 10 min. W.  elevation: 630m.  remarks: Shrub to 2m tall. Flowers nodding, petals yellow, anthers purple. Fruit to 6cm long, pendulous, shiny green turning red, conical, wrinkled, ribbed. Seeds white. Cultivated by Indians in dooryard gardens. Cultivated. Seed.


PI 543188  donor id: 782.  origin: Bolivia.  local name: Aji dulce.  
locality: Cobija, market, Pando Department, Nicolas Suarez Province.  latitude: 11 deg. 00 min. S.  
longitude: 68 deg. 45 min. W.  elevation: 200m.  

PI 543189  donor id: 783.  origin: Bolivia.  local name: Aji dulce.  
locality: Cobija, market, Pando Department, Nicolas Suarez Province.  latitude: 11 deg. 00 min. S.  
longitude: 68 deg. 45 min. W.  elevation: 200m.  

PI 543190  donor id: 784.  origin: Bolivia.  local name: Aji dulce.  
locality: Cobija, market, Pando Department, Nicolas Suarez Province.  latitude: 11 deg. 00 min. S.  
longitude: 68 deg. 45 min. W.  elevation: 200m.  

PI 543191  donor id: 785.  origin: Bolivia.  local name: Aji dulce.  
locality: Cobija, market, Pando Department, Nicolas Suarez Province.  latitude: 11 deg. 00 min. S.  
longitude: 68 deg. 45 min. W.  elevation: 200m.  

PI 543192  donor id: 786.  origin: Bolivia.  local name: Aji dulce.  
locality: Cobija, market, Pando Department, Nicolas Suarez Province.  latitude: 11 deg. 00 min. S.  
longitude: 68 deg. 45 min. W.  elevation: 200m.  
PI 543193  donor id: 787.  origin: Bolivia.  local name: Aji dulce.  
locality: Cobija, market, Pando Department, Nicolas Suarez Province.  
latitude: 11 deg. 00 min. S.  longitude: 68 deg. 45 min. W.  
elevation: 200m.  remarks: Fruits box-like, 4cm long, 3-4 strong ribs, inverted apex, 

PI 543194  donor id: 788.  origin: Bolivia.  local name: Aji dulce.  
locality: Cobija, market, Pando Department, Nicolas Suarez Province.  
latitude: 11 deg. 00 min. S.  longitude: 68 deg. 45 min. W.  
elevation: 200m.  remarks: Fruits semi-globose with about 4 ribs, 4cm long, apex inverted, 

PI 543195  donor id: 789.  origin: Bolivia.  local name: Aji dulce.  
locality: Cobija, market, Pando Department, Nicolas Suarez Province.  
latitude: 11 deg. 00 min. S.  longitude: 68 deg. 45 min. W.  

PI 543196  donor id: 812.  origin: Bolivia.  local name: Aji dulce.  
locality: Dooryard garden by Rio Acre, Cobija, Pando Department, Nicolas Suarez Province.  
latitude: 11 deg. 00 min. S.  longitude: 68 deg. 45 min. W.  
elevation: 200m.  remarks: Fruits oblong, wrinkled, sometimes contorted, 5cm long, red, not pungent. Seeds light yellow. Perennial woody shrub to 1.5m. Cultivated. Seed.

PI 543197  donor id: 813.  origin: Bolivia.  local name: Aji dulce.  
collected: November 11, 1988.  collector id: 813.  
locality: Dooryard garden by Rio Acre, Cobija, Pando Department, Nicolas Suarez Province.  
latitude: 11 deg. 00 min. S.  longitude: 68 deg. 45 min. W.  
elevation: 200m.  remarks: Perennial woody shrub to 1.5m tall. Fruit more or less globose, ribbed, red, not pungent, sweet. Cultivated. Seed.
PI 543198 donor id: 814. origin: Bolivia. local name: Aji dulce blanco redondo. collected: November 11, 1988. collector id: 814. locality: Dooryard garden by Rio Acre, Cobija, Pando Department, Nicolas Suarez Province. latitude: 11 deg. 00 min. S. longitude: 68 deg. 45 min. W. elevation: 200m. remarks: Perennial woody shrub to 1.5m tall. Fruit more or less globose, ribbed, pale yellow-green when mature, not piquant, sweet. Cultivated. Seed.

PI 543199 donor id: 816. origin: Bolivia. local name: Aji dulce. collected: November 11, 1988. collector id: 816. locality: Dooryard garden by Rio Acre, Cobija, Pando Department, Nicolas Suarez Province. latitude: 11 deg. 00 min. S. longitude: 68 deg. 45 min. W. elevation: 200m. remarks: Perennial, woody shrub to 1.5m tall. Fruits oblong, acuminate, to 7cm long, smooth, shiny red, not piquant, sweet. Cultivated. Seed.


PI 543178 to 543208-continued

PI 543208  
donor id: 879.  origin: Bolivia.  local name: Aji.  
locality: Trinidad, Mercado Central, Beni Department,  
Cercado Province.  latitude: 14 deg. 48 min. S.  
longitude: 64 deg. 52 min. W.  elevation: 155m.  
remarks: Fruit subglobose, 1.5cm in diameter, acuminate  
apex, yellow-green turning orange, piquant.  Seeds white.  
Purchased in market.  Cultivated.  Seed.

PI 543209 to 543211.  Citrullus sp.  CUCURBITACEAE

Donated by: Williams, D.E., New York Botanical Garden, Bronx, New  
York, United States.  remarks: Collected in Northern Bolivia,  
September 8, 1988 through December 12, 1988.  Received November  
1989.

PI 543209  
donor id: 722.  origin: Bolivia.  local name: Sandia  
(Spanish), Tibus shandia (Chimane) black seeds, Muchas  
shandia (Chimane) reddish seeds.  collected: October 03,  
1988.  collector id: 722.  locality: Cero Ocho, Chimane  
Indian village on Rio Curiraba, 17km NNE of the Estacion  
Biologica Beni, Beni Department, Yacuma Province.  
latitude: 14 deg. 30 min. S.  longitude: 66 deg. 30 min. W.  
elevation: 218m.  remarks: Mixed seed of two  
varieties, one with black seeds, another with reddish  
seeds, said to produce spherical and elongate fruits,  
respectively.  Watermelons cultivated by Indians on  
riverine beaches and in chacos.  Cultivated.  Seed.

PI 543210  
donor id: 733.  origin: Bolivia.  local name: Sandia  
(Spanish) Muchas shandia (Chamane) reddish seeds.  
locality: Cero Ocho, Chimane Indian village on Rio  
Curiraba, 17km NNE of the Estacion Biologica Beni, Beni  
Department, Yacuma Province.  latitude: 14 deg. 30 min. S.  
longitude: 66 deg. 30 min. W.  elevation: 218m.  
remarks: Light orange seeds, said to produce elongate  
fruits.  Watermelon cultivated by Indians on riverine  
sandbars.  Cultivated.  Seed.

PI 543211  
donor id: 734.  origin: Bolivia.  local name: Sandia  
(Spanish), Tibus shandia (Chimane).  collected: October  
04, 1988.  collector id: 734.  locality: Cero Ocho,  
Chimane Indian village on Rio Curiraba, 17km NNE of the  
Estacion Biologica Beni, Beni Department, Yacuma  
Province.  latitude: 14 deg. 30 min. S.  longitude: 66  
deg. 30 min. W.  elevation: 218m.  remarks: Seeds black,  
said to produce spherical fruits.  Watermelon cultivated  
by Indians on sandbars.  Cultivated.  Seed.
PI 543212. Citrullus lanatus (Thunb.) Matsum. & Nakai CUCURBITACEAE
Watermelon


PI 543213 to 543214. Cyclanthera pedata (L.) Schrad. CUCURBITACEAE
Achocha


PI 543213 donor id: 826. origin: Bolivia. local name: Caiba, Maxixi peruano, Achoscha (all Spanish). collected: November 13, 1988. collector id: 826. locality: Cobija, market, Pando Department, Nicolas Suarez Province. latitude: 11 deg. 00 min. S. longitude: 68 deg. 45 min. W. elevation: 200m. remarks: Fruit oblong, pointed at both ends, somewhat flattened, smooth, waxy, partially ribbed, to 14cm long, 6cm wide, hollow, light green turning yellowish. Seeds black, roughly textured, somewhat triangular, dentate, about 10 borne on an axially free placenta. Cultivated locally as a vegetable for soups, stews, and stuffing. Cultivated. Seed.

PI 543215 to 543230. Cucurbita sp. CUCURBITACEAE


PI 543220 donor id: 811. origin: Bolivia. local name: Joco.


PI 543227 donor id: 854. origin: Bolivia. local name: Joco (Spanish) Jemi (Esse Ejja). collected: November 19, 1988. collector id: 854. locality: Esse Ejja Indian village on Rio Beni, approx. 50 air km SW of Riberalta. latitude: 11 deg. 15 min. S. longitude: 66 deg. 18 min. W. elevation: 203m. remarks: Fruit spherical or egg-shaped, to 30cm long, strongly ribbed, orange, with corky peduncle. Flesh is firm, thick and orange, seeds white and numerous. Squash cultivated locally by Indians on sandbars and in chacos. Cultivated. Seed.

PI 543228 donor id: 871. origin: Bolivia. local name: Joco. collected: November 26, 1988. collector id: 871. locality: Pompeya market, Trinidad, Beni Department, Cercado Province. latitude: 14 deg. 48 min. S. longitude: 64 deg. 52 min. W. elevation: 155m. remarks: Fruit oblong, ovoid, 25cm long, 15cm diam., slightly ribbed, predominantly yellow-orange with green striations. Flesh orange. Seeds light brown. Said to have been brought from San Pablo, Beni, near the border with Santa Cruz Department. Cultivated. Seed.
PI 543229  donor id: 873.  origin: Bolivia.  local name: Zapallito.  
locality: Pompeya market, Trinidad, Beni Department, 
Cercado Province.  latitude: 14 deg. 48 min. S.  
longitude: 64 deg. 52 min. W.  elevation: 155m.  
remarks: Small pumpkin-like squashes, flattened 
longitudinally, 15cm in diam., 7cm long, strongly ribbed, 
depressed peduncle insertion, woody peduncle flared at 
point of insertion, yellow-orange color, very firm, 

thick, light orange flesh, green layer just beneath 
pericarp.  Seeds light yellow.  Said to have come from 

PI 543230  donor id: 874.  origin: Bolivia.  local name: Joco.  
locality: Mercado Central, Trinidad, Beni Department, 
Cercado Province.  latitude: 14 deg. 48 min. S.  
longitude: 64 deg. 52 min. W.  elevation: 155m.  
remarks: Fruit spheroid, pumpkin-like, 18cm diam., 
ribbed, light orange color.  Woody peduncle.  Bright orange 
flesh.  Seeds light brown with dark brown line around seed 

PI 543231.  Lablab purpureus (L.) Sweet  FABACEAE  Hyacinth bean

Donated by: Williams, D.E., New York Botanical Garden, Bronx, New 
York, United States.  remarks: Collected in Northern Bolivia, 
September 8, 1988 through December 12, 1988.  Received November 
1989.

donor id: 777.  origin: Bolivia.  local name: Poroto 
chiquito (Spanish), Chilpi (Tancana), Juchui poroto 
(Quechua).  collected: October 25, 1988.  collector id: 
777.  locality: San Jose de Uchupaimonas, Tacana and 
Quechua Indian town, 35km W of Tumupasa on footpath, on 
high bench above the Rio Tuichi, La Paz Department, 
Iturralde Province.  latitude: 14 deg. 15 min. S.  
longitude: 68 deg. 10 min. W.  elevation: 630m.  
remarks: Herbaceous vine.  Flowers papilionate, white.  
Fruits are curved pods, 4cm long, containing 2-4 seeds.  
Seed tan with long, exserted white hilum extending 1/3 
way around the seed.  Heavy producer, yielding after one 
year.  Cultivated.  Seed.

PI 543232 to 543236.  Lagenaria sp.  CUCURBITACEAE

Donated by: Williams, D.E., New York Botanical Garden, Bronx, New 
York, United States.  remarks: Collected in Northern Bolivia, 
September 8, 1988 through December 12, 1988.  Received November 
1989.
PI 543232  donor id: 718.  origin: Bolivia.  local name: Mate (Spanish), Ewa (Chimane).  collected: October 02, 1988.  collector id: 718.  locality: In chacos, Chimane Indian village on Rio Curiraba, 17km NNE of the Estacion Biologica Beni, Cero Ocho, Beni Department, Yacuma Province.  latitude: 14 deg. 30 min. S.  longitude: 66 deg. 30 min. W.  elevation: 218m.  remarks: Large spherical fruits to 40cm in diameter. Used as containers. Cultivated. Seed.


PI 543235  donor id: 805.  origin: Bolivia.  local name: Mate.  collected: November 06, 1988.  collector id: 805.  locality: In dooryard gardens and chacos on river levee, small village on the R bank of the Rio Beni, San Jose, Beni Department, Ballivian Province.  latitude: 13 deg. 05 min. S.  longitude: 67 deg. 08 min. W.  elevation: 220m.  remarks: Small spherical fruits with slight neck, 10cm in diameter maximum. Seeds smaller than those of the large-fruited types, 1.3cm long, roughly triangular, flattened, tan to dark brown with two exserted lighter stripes on either side. Bottle gourd cultivated locally. Cultivated. Seed.
PI 543236

donor id: 806. origin: Bolivia. local name: Mate.
collected: November 06, 1988. collector id: 806.
locality: San Jose, small village on R bank of Rio Beni, Beni Department, Ballivian Province. latitude: 13 deg. 05 min. S. longitude: 67 deg. 08 min. W. elevation: 220m. remarks: Long, pear-shaped fruits, 50cm long, 20cm in diameter. Bottle gourd cultivated for eating and storage vessels, and bailing canoes. Cultivated. Seed.

PI 543237. Momordica charantia L. CUCURBITACEAE Balsam pear


PI 543238 to 543239. Pachyrhizus tuberosus (Lam.) Sprengel FABACEAE Yambean


PI 543239  
**donor id:** 780.  **origin:** Bolivia.  **local name:** Ajipa (Spanish) Ajipa (Tacana).  **collected:** October 25, 1988.  **collector id:** 780.  **locality:** San Jose de Uchupiamonas, Tacana and Quechua Indian town, 35km on footpath W of Tumupasa, on high bench above the Rio Tuichi, La Paz Department, Iturralde Province.  **latitude:** 14 deg. 15 min. S.  **longitude:** 68 deg. 10 min. W.  **elevation:** 630m.  **remarks:** Pods 20cm long, containing 10 brown, oval, flattened seeds. Tuberous, edible root. Cultivated. Seed.

PI 543240 to 543241.  *Sesamum indicum* L.  **PEDALIACEAE** Sesame


PI 543240  
**donor id:** 836.  **origin:** Bolivia.  **local name:** Chinchilin negro.  **collected:** November 15, 1988.  **collector id:** 836.  **locality:** Cobija, dooryard garden of private house, 1km W of main square, on bank of the Rio Acre, Pando Department, Nicolas Suarez Province.  **latitude:** 11 deg. 00 min. S.  **longitude:** 68 deg. 45 min. W.  **elevation:** 190m.  **remarks:** Plants 1.5m tall, herbaceous. Seeds black, very small. Cultivated for extraction of the edible and medicinal oil from its seeds. Cultivated. Seed.

PI 543241  
**donor id:** 843.  **origin:** Bolivia.  **local name:** Chinchilin negro.  **collected:** November 16, 1988.  **collector id:** 843.  **locality:** Cobija, dooryard garden of private house, Pando Department, Nicolas Suarez Province.  **latitude:** 11 deg. 00 min. S.  **longitude:** 68 deg. 45 min. W.  **elevation:** 190m.  **remarks:** Plants 2m tall, herbaceous. Flowers white with lilac lip. Seeds black. Cultivated for extraction of medicinal oil from the seeds. Oil used as a remedy for "aire". It is drunk as a purgative and/or applied externally. Cultivated. Seed.

PI 543242. *Vigna unguiculata* (L.) Walp.  **FABACEAE** Cowpea

PI 543242—continued

donor id: 711. origin: Bolivia. local name: Frejol. collected: September 29, 1988. collector id: 711. locality: San Ignacio de Moxos, Chaco 1.5km E of town square, Beni Department, Moxos Province. latitude: 14 deg. 50 min. S. longitude: 65 deg. 35 min. W. elevation: 165m. remarks: Plants a prostrate runner to 50cm tall. Flowers white, standard has yellow spot at base. Pods green changing to yellow then reddish when mature, up to 20cm long. Seeds white with brown hilum. Cultivated. Seed.

PI 543243 to 543247. Sorghum bicolor (L.) Moench POACEAE Sorghum


PI 543248. Agrostis stolonifera var. palustris (Huds.) Farw. POACEAE

Donated by: Jacklin Seed Company, United States. Received August 13, 1990.


PI 543249 to 543251. Phaseolus vulgaris L. FABACEAE Bean

Donated by: Rogers Brothers Seed Company, United States. Received August 13, 1990.
PI 543249 to 543251-continued


PI 543252. Gossypium hirsutum L. MALVACEAE Cotton

Donated by: Germain's, Inc., United States. Received August 13, 1990.


PI 543253 to 543260. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: York, J.O., Arkansas Agricultural Experiment Station, Plant Science 115, Fayetteville, Arkansas, United States. Received July 23, 1990.


PI 543255  
**origin:** United States.  **cultivar:** R LINE AR 3009.  
**pedigree:** Selection from IS 12609 for 4-dwarf and purple testa.  

PI 543256  
**origin:** United States.  **cultivar:** R LINE AR 3010.  
**pedigree:** Selection from IS 1266c for 3-dwarf. Probably contains a mutated dw3 allele.  

PI 543257  
**origin:** United States.  **cultivar:** R LINE AR 3011.  
**pedigree:** Selection from TS 313 (Early Hegari) / TX 7078 for 3-dwarf and purple testa.  
**remarks:** 3-dwarf, wide leafed, and semi-open panicle. Pericarp brownish pink, mesocarp starchy, testa purple, and glumes mahogany (B1 B1 B2 B2 SSRRYYiiizZtp tp). The grain threshes extremely free of the glumes. Panicle exerted above the flag leaf. Plant height approximately 90cm. Flowers approximately 74 days after emergence. Line restores pollen to A1 cytoplasm. the hybrid KS 57/AR 3011 had 0.8% tannin. Spring Annual. Breeding Material. Seed.

PI 543258  
**origin:** United States.  **cultivar:** R LINE AR 3012.  
**pedigree:** Selection from IS12608c for bird resistance.  
PI 543259  
**origin:** United States.  
**cultivar:** R LINE AR 3014.  
**pedigree:** Selected from TAM Bulk 48.  

PI 543260  
**origin:** United States.  
**cultivar:** R LINE AR 3015.  
**pedigree:** Selection from TX 2526/TAM Bulk 45, using pollen mixture.  

PI 543261 to 543397.  
Macroptilium atropurpureum (Mocino & Sesse ex DC.)

**Urban**  
**FABACEAE**  
**Purple bean**

**Donated by:** Kretschmer, Jr., A.E., IFAS, AREC, P.O. Box 248, Ft. Pierce, Florida, United States. Received May 22, 1989.

PI 543261  
**donor id:** 483.  
**origin:** Australia.  
**collected:** June 20, 1962.  
**remarks:** Siratro. Wild. Seed.

PI 543262  
**donor id:** 1055.  
**origin:** Venezuela.  
**collected:** December 1967.  
**collector id:** 26. Wild. Seed.

PI 543263  
**donor id:** 2207.  
**origin:** Mexico.  
**collected:** June 22, 1977.  
**collector id:** 2207.  
**other id:** CF-360.  
**locality:** Valladolid road, 18.3km top of cut, past Angle Iron road mark, Kantunil, Yucatan State.  
**latitude:** 20 deg. 44 min. N.  
**longitude:** 11 deg. 50 min. W.  
**elevation:** 50m.  
**remarks:** Annual rainfall 50mm. Wild. Seed.

PI 543264  
**donor id:** 2212.  
**origin:** Mexico.  
**collected:** June 22, 1977.  
**collector id:** 2212.  
**other id:** CF-411.  
**locality:** Road edge and margin, small dense patches, Puerto Juarez road, 193km from Valladolid, Yucatan State. Wild. Seed.

PI 543265  
**donor id:** 3146.  
**origin:** Brazil.  
**collected:** September 26, 1978.  
**collector id:** 3146.  
**other id:** IRI3316.  
**locality:** Mato, Sao Paulo State. Wild. Seed.


PI 543280  donor id: 3625. origin: Mexico. collected: January 24, 1980. collector id: 257. other id: MEX 257. other id: CPI 85924. locality: 26km N of Matias Romero, on the road to Acayucan, Oaxaca State. latitude: 17 deg. 08 min. N. longitude: 95 deg. 00 min. W. elevation: 80m. remarks: Annual rainfall 2350mm. Wild. Seed.
PI 543261 to 543397-continued


PI 543294 donor id: 4397. origin: Mexico. collected: March 04, 1985. collector id: 059. locality: 5.5km from La Ventosa road to Salina Cruz, La Ventosa, Oaxaca State. latitude: 16 deg. 10 min. N. longitude: 95 deg. 09 min. elevation: 7m. remarks: Annual rainfall 1063mm. Small leaf type. No rust. Some mite damage. Wild. Seed.

PI 543295 donor id: 4399. origin: Mexico. collected: March 04, 1985. collector id: 060B. locality: Int. Hwy 185 and road to La Ventose or 6.2km from La Ventosa (S of Salina Cruz by water), Tehuantepec, Oaxaca State. latitude: 16 deg. 10 min. N. longitude: 95 deg. 10 min. W. elevation: 5m. remarks: Annual rainfall 1063mm. Moderate size leaves. Wild. Seed.


271


PI 543320  donor id: 4770. origin: Colombia. collected: May 29, 1986. other id: CIAT 0559. locality: CIAT, Cali Department. remarks: Received from Dr. Rainer, Schultze-Kraft. Cultivated. Seed.


PI 543323  donor id: 4880. origin: Costa Rica. collected: March 06, 1987. collector id: 6/9. locality: Very dry area, 15km Ruta 18 from Ferry E to Ruta 1, between Ruta markers 7km and 16km, also on Ruta 1, road to San Jose at 21km and 91km, Tempisque Ferry, Guanacaste Province. latitude: 10 deg. 14 min. N. longitude: 85 deg. 10 min. W. elevation: 75m. remarks: Annual rainfall 1729mm. Possibly escaped Siratro. Abundant. Wild. Seed.


PI 543355  donor id: 6505. origin: Costa Rica. collected: January 31, 1988. other id: 31-0. locality: 8.0km S from Intersection Ruta 1 on Ruta 18, Tempisque Ferry, Guanacaste State. latitude: 10 deg. 16 min. N. longitude: 85 deg. 05 min. W. elevation: 75m. remarks: Annual rainfall 1775mm. Rust on leaves. Cultivated. Seed.

PI 543357  donor id: 6570. origin: Costa Rica. collected: February 03, 1989. other id: 03-4A. other id: 74017-Talolinga. locality: 3.2km from Caballito on road to Millal, plot 3m in diameter, Caballito, Guanacaste. latitude: 10 deg. 13 min. N. longitude: 85 deg. 20 min. W. elevation: 50m. remarks: Annual rainfall 1824mm. Wild. Seed.


PI 543362  donor id: 6599. origin: Mexico. collected: March 30, 1989. collector id: 30-1. locality: 72km from Hotel Emporio on road 150 to Cordoba, 6km S from Rio Blanco bridge, La Tinaja, Vera Cruz State. latitude: 18 deg. 47 min. N. longitude: 96 deg. 26 min. W. elevation: 100m. remarks: Rust present. Wild. Seed.

PI 543364  donor id: 6601. origin: Mexico. collected: March 30, 1989. collector id: 30-3. locality: 10km N of Valle Naciona, Hwy 175, road marker 57km, road to Vera Cruz to Oaxaca, Valle Nacional, Oaxaca State. latitude: 17 deg. 50 min. N. longitude: 96 deg. 15 min. W. elevation: 200m. remarks: Annual rainfall 1463mm. Scattered rust. Wild. Seed.


PI 543372  donor id: 6611. origin: Mexico. collected: April 01, 1989. collector id: 01-1. locality: Just beginning to climb mountains, 30km E of Easter Pemex Station of Tuxtla Gutierrez, Chiapas State. latitude: 16 deg. 45 min. N. longitude: 92 deg. 05 min. W. elevation: 800m. remarks: Annual rainfall 849mm. No rust. Wild. Seed.


PI 543380  donor id: 6627.  origin: Mexico.  collected: April 03, 1989.  collector id: 03-1.  locality: 25.9km N of Intersection of Hwy 190 and road to Comalcalco, road marker 69.6km, Colmalcalco, Tabasco State.  latitude: 18 deg. 10 min. N.  longitude: 93 deg. 15 min. W.  elevation: 20m.  remarks: Annual rainfall 2238mm. Severe rust in 20m patch of Siratro. Wild. Seed.


PI 543382  donor id: 6629.  origin: Mexico.  collected: April 03, 1989.  collector id: 03-2B.  locality: 3.9km N on road to Agua Dulce from Hwy 180, Agua Dulce, Vera Cruz State.  latitude: 18 deg. 05 min. N.  longitude: 34 deg. 07 min. W.  elevation: 20m.  remarks: Annual rainfall 2818mm. No rust. Wild. Seed.
PI 543383 donor id: 6631. origin: Mexico. collected: April 03, 1989. collector id: 03-4. locality: 63km N of Acayucan on Acayucan road to Catemaco, Hwy 180 or 17.2km S of Catemaco Pemex Station road marker 163km, Catemaco, Vera Cruz State. latitude: 18 deg. 17 min. N. longitude: 95 deg. 06 min. W. elevation: 500m. remarks: Annual rainfall 1419mm. No rust. Wild. Seed.


PI 543389  
donor id: 6641.  
origin: Mexico.  
collected: April 04, 1989.  
collector id: 04-4B.  
locality: 29.5km S of Hwy 180, on road to Isla, Santiago Tuxtla, Vera Cruz State.  
latitude: 18 deg. 13 min. N.  
longitude: 95 deg. 26 min. W.  
elevation: 200m.  

PI 543390  
donor id: 6642.  
origin: Mexico.  
collected: April 04, 1989.  
collector id: 04-4C.  
locality: 29.5km S of Hwy 180, on road to Isla, Santiago Tuxtla, Vera Cruz State.  
latitude: 18 deg. 13 min. N.  
longitude: 95 deg. 26 min. W.  
elevation: 200m.  

PI 543391  
donor id: 6644.  
origin: Mexico.  
collected: April 04, 1989.  
collector id: 04-5A.  
locality: 1.1km W of high power line crossing Hwy, Isla to Ciudad Aleman; 3.9km W of La Zueta, 100m E of Road marker 38, Isla, Vera Cruz State.  
latitude: 18 deg. 05 min. N.  
longitude: 95 deg. 51 min. W.  
elevation: 100m.  

PI 543392  
donor id: 6646.  
origin: Mexico.  
collected: April 04, 1989.  
collector id: 04-6.  
locality: 2.2km W of high power line crossing Hwy, Isla to Ciudad Aleman, 5.0km W of La Azueta, Isla, Vera Cruz State.  
elevation: 50m.  
remarks: Annual rainfall 1419mm. Rust present. Siratro type leaves. Abundant in 20 by 5m area. Wild. Seed.

PI 543393  
donor id: 6647.  
origin: Mexico.  
collected: April 04, 1989.  
collector id: 04-7A.  
locality: 26km N of Cosmalaopan-Tuxtepec Intersection of Hwy 175, road to Alavardo, 1.6km N of the sign Novillero Pueblo, Cosmalaopan, Vera Cruz State.  
latitude: 18 deg. 26 min. N.  
longitude: 95 deg. 45 min. W.  
elevation: 5m.  
remarks: Annual rainfall 1419mm. Rust present. Associated species; Vigna adenantha and Desmanthus virgatus. Wild. Seed.

PI 543394  
donor id: 6650.  
origin: Mexico.  
collected: April 04, 1989.  
collector id: 04-8.  
locality: Very dry, beach sand, 2.4km W of Alvarado, Hwy 180, Vera Cruz State.  
latitude: 18 deg. 48 min. N.  
longitude: 95 deg. 47 min. W.  
elevation: 50m.  
remarks: Annual rainfall 1710mm. Rust present. Leaves smaller than Siratro. Wild. Seed.
PI 543395 donor id: 6651. origin: Mexico. collected: April 05, 1989. collector id: 05-1A. locality: 2.2km E of Pueblo Tolome or 37.9km from Pemex Station at Intersection of Hwy 180 and 140, on the road to Xalapa, Vera Cruz State. latitude: 19 deg. 17 min. N. longitude: 96 deg. 26 min. W. elevation: 50m. remarks: Annual rainfall 1116mm. Rust present. Siratro type leaves. Wild. Seed.

PI 543396 donor id: 6652. origin: Mexico. collected: April 05, 1989. collector id: 05-1B. locality: 2.2km E of Pueblo Tolome or 37.9km from Pemex Station at Intersection of Hwy 180 and 140, on the road to Xalapa, Vera Cruz State. latitude: 19 deg. 17 min. N. longitude: 96 deg. 26 min. W. elevation: 50m. remarks: Annual rainfall 1116mm. No rust. Siratro type leaves. Wild. Seed.


PI 543398. Secale cereale L. POACEAE Rye

   Donated by: Kehr, W.R., Lincoln, Nebraska, United States. Received December 11, 1974.


PI 543399 to 543727. Secale cereale L. POACEAE Rye

   Donated by: Zillinsky, F.J., CIMMYT, Apartado Postal 6-641, Mexico 06600, Federal District, Mexico; and Prescott, J.M., CIMMYT, Apartado Postal 6-641, Mexico 06600, Federal District, Mexico. Received October 01, 1973.


PI 543399 to 543727-continued


PI 543413 donor id: M1-72-73-175. origin: Turkey. collected: 1972. other id: C1se 204. locality: 35 km east of Sardev, Western Turkey. Annual. Cultivated. Seed.


<table>
<thead>
<tr>
<th>PI</th>
<th>Donor ID</th>
<th>Origin</th>
<th>Collected</th>
<th>Other ID</th>
<th>Locality</th>
<th>Type</th>
<th>Seed Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>543428</td>
<td>M1-72-73-190</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 219</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543429</td>
<td>M1-72-73-191</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 220</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543430</td>
<td>M1-72-73-192</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 221</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543431</td>
<td>M1-72-73-193</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 222</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543432</td>
<td>M1-72-73-194</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 223</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543433</td>
<td>M1-72-73-195</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 224</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543434</td>
<td>M1-72-73-196</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 225</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543435</td>
<td>M1-72-73-197</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 226</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543436</td>
<td>M1-72-73-198</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 227</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543437</td>
<td>M1-72-73-199</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 228</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543438</td>
<td>M1-72-73-200</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 229</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543439</td>
<td>M1-72-73-201</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 230</td>
<td>35 km east of Sardev, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
<tr>
<td>543440</td>
<td>M1-72-73-202</td>
<td>Turkey</td>
<td>1972</td>
<td>CIse 231</td>
<td>1 km west of Accentec, Western Turkey</td>
<td>Annual</td>
<td>Cultivated</td>
</tr>
</tbody>
</table>


PI 543449 donor id: M1-72-73-211. origin: Turkey. collected: 1972. other id: CIse 240. locality: 1 km west of Accentec, Western Turkey; wheat field. Annual. Cultivated. Seed.


<table>
<thead>
<tr>
<th>PI 543399 to 543727-continued</th>
</tr>
</thead>
</table>
PI 543399 to 543727-continued


PI 543466  donor id: M1-72-73-228.  origin: Turkey.  collected: 1972.  other id: C1se 257.  locality: 1 km west of Accentec, Western Turkey; wheat field.  Annual.  Cultivated.  Seed.


290
PI 543399 to 543727-continued


PI 543399 to 543727-continued


295


PI 543399 to 543727-continued


PI 543399 to 543727-continued


PI 543399 to 543727-continued


308


PI 543728 to 543729. Secale cereale L. POACEAE Rye

Donated by: Nolan, C.N., Clemson University, Clemson, South Carolina, United States. Received November 04, 1975.


PI 543730 to 543740. Sorghum bicolor (L.) Moench POACEAE Sorghum


PI 543732  
**origin:** United States. **origin institute:** Arkansas Agr. Exp. Sta., Plant Science 115, Fayetteville, Arkansas 72701. **cultivar:** R line AR 3017. **pedigree:** NB9040/TAM bulk 47 (using pollen mixture). **other id:** Ark 1041. **remarks:** Grain has white and pearly pericarp, yellow endosperm, and mahogany glumes. Seed small and thresh easily from glumes. Panicle exertion above flag leaf (8cm), panicle type open. Plant averages 107cm in height. Flowers approx. 80 days after emergence. Plants sturdy, juicy, and produce no tillers. Restores pollen production to Al cytoplasm. Selected for disease free leaves. Annual. Breeding Material. Seed.

PI 543733  
**origin:** United States. **origin institute:** Arkansas Agr. Exp. Sta., Plant Science 115, Fayetteville, Arkansas 72701. **cultivar:** R line AR 3018. **pedigree:** Selected from A line TX399(Wheatland)/Rline Tx7000 (Caprock). **other id:** Ark. 1008. **remarks:** Resembles Caprock but contains Al cytoplasm. 3-dwarf line that restores pollen production to Al cytoplasm. Grain has pink pericarp, starchy mesocarp, and mahogany glumes. Seed average in size and thresh easily from glumes. Panicle exertion well above flag leaf (11cm), panicle type compact. Plant averages 107cm in height. Flowers approx. 79 days after emergence. Plants sturdy, juicy, and produce few. Annual. Breeding Material. Seed.

PI 543734  
**origin:** United States. **origin institute:** Arkansas Agr. Exp. Sta., Plant Science 115, Fayetteville, Arkansas 72701. **cultivar:** R line AR 3020. **pedigree:** Selected from TAM Bulk 47 sorghum anthracnose (Colletotrichum graminicola) resistant population. **other id:** Ark. 1011. **remarks:** 3-dwarf inbred line that restores pollen production to Al cytoplasm. Grain has white and pearly pericarp, yellow endosperm, and mahogany glumes. Seed average size and thresh easily from glumes. Panicle exertion above flag leaf (5cm), panicle type open. Plant averages 117cm in height. Flowers approx. 81 days after emergence. Selected for disease free leaves. Annual. Breeding Material. Seed.
PI 543735  
**origin:** United States.  
**origin institute:** Arkansas Agr. Exp. Sta., Plant Science 115, Fayetteville, Arkansas 72701.  
**cultivar:** R line AR 3031.  
**pedigree:** Selected from IS2266c.  
**other id:** Russet.  
**other id:** IS2266c.  
**remarks:** Selected for purple testa and recess spreader factor (ss). 3-dwarf line that restores pollen production to A1 cytoplasm. Grain has pink pericarp, chalky mesocarp, purple testa, and straw colored glumes. Seed large and thresh free of glumes. Panicle exertion above flag leaf (14cm), panicle type compact. Plant averages 104cm in height. Flowers approx. 76 days after emergence. Plant is rather weak and tillers. Annual. Breeding Material. Seed.

PI 543736  
**origin:** United States.  
**origin institute:** Arkansas Agr. Exp. Sta., Plant Science 115, Fayetteville, Arkansas 72701.  
**cultivar:** R2 line AR 3032.  
**pedigree:** AR 3003(Schrock)/TAM bulk 40 (using a pollen mixture).  
**other id:** Ark. 1066.  
**remarks:** Selected for purple testa. 3-dwarf line that restores pollen production to A2 cytoplasm. Grain has brownish pink and pearly pericarp, purple testa, and black glumes. Grain medium size and does not thresh easily from glumes. Panicle exertion above flag leaf (10cm), panicle type is semi-open. Plant averages 138cm in height. Flowers approx. 78 days after emergence. Plant is sturdy with no tillers. Annual. Breeding Material. Seed.

PI 543737  
**origin:** United States.  
**origin institute:** Arkansas Agr. Exp. Sta., Plant Science 115, Fayetteville, Arkansas 72701.  
**cultivar:** R line AR 3037.  
**pedigree:** SA6649-7-2(Feterita)/TAM bulk 47 (using a pollen mixture).  
**other id:** Ark. 1073.  
**remarks:** Selected for purple testa. 3-dwarf line that restores pollen production to A1 cytoplasm. Grain has white and pearly pericarp, purple testa, and black glumes. Seed medium size and thresh free of glumes. Panicle exertion above flag leaf (5cm), panicle semi-open. Plant averages 102cm in height. Flowers approx. 74 days after emergence. Plant sturdy with no tillers. Annual. Breeding Material. Seed.
PI 543730 to 543740-continued

PI 543738  

PI 543739  

PI 543740  

PI 543741. Zea mays L. subsp. mays POACEAE Corn

Donated by: Darrah, L., Agricultural Research Service -- USDA, University of Missouri, Curtis Hall, Rm. 210, Columbia, Missouri, United States. Received August 27, 1990.
PI 543741-continued


PI 543742 to 543747. Helianthus hybrid ASTERACEAE

Donated by: Miller, J.F., Agricultural Research Service -- USDA, Northern Crops Science Lab., P.O. Box 5677, Fargo, North Dakota, United States; and North Dakota Agr. Res. Sta.. remarks: Three Cytoplasmic Male Sterile and Three Restorer Sunflower Germplasm Lines. Received August 27, 1990.

PI 543742 origin: United States. origin institute: Agricultural Research Service -- USDA, Northern Crops Science Lab., P.O. Box 5677, Fargo, North Dakota 58105. cultivar: cmsHA 89(PET2). pedigree: BC8 lines of HA 89 with cytoplasm from CMG-1. other id: GP-129. group: CSR-SUNFLOWER. remarks: Cytoplasmic male sterile line to provide cytoplasmic diversity. Morphologic and agronomic characteristics indistinguishable from HA 89 except rudimentary anthers which shed no pollen. Spring Annual. Breeding Material. Seed.

PI 543743 Helianthus annuus L. ASTERACEAE

PI 543744 Helianthus annuus L. ASTERACEAE
origin: United States. origin institute: Agricultural Research Service -- USDA, Northern Crops Science Lab., P.O. Box 5677, Fargo, North Dakota 58105. cultivar: cmsHA 89(MAX1). pedigree: BC8 lines of HA 89 with cytoplasm from CMG-3. other id: GP-131. group: CSR-SUNFLOWER. remarks: Cytoplasmic male sterile line to provide cytoplasmic diversity. Morphologic and agronomic characteristics indistinguishable from HA 89 except split anther and small pollen at frequency of 1%. Seedset on plants approx. 5%. Spring Annual. Breeding Material. Seed.

PI 543745 Helianthus annuus L. ASTERACEAE

PI 543746 Helianthus annuus L. ASTERACEAE

PI 543747 Helianthus annuus L. ASTERACEAE

PI 543748 Dactylis glomerata L. POACEAE Orchardgrass
PI 543748-continued

**origin:** United States. **origin institute:** Tennessee Agr. Exp. Sta., University of Tennessee, Knoxville, Tennessee 37901-1071. **cultivar:** EMBRYOGEN-P. **pedigree:** Derived from one plant of Potomac which produced somatic embryos from basal leaf segments cultured in vitro in medium containing 30 μM dicamba (3,6-dichloro-2-methoxybenzoic acid). **other id:** GP-2. **group:** CSR-ORCHARDGRASS. **remarks:** High capacity for producing somatic embryos directly from basal leaf segments cultured in vitro and from suspension cultures. Plant phenotypically normal in color and morphology. Fertile and can be used in crosses with other genotypes. Breeding Material. Plant.

PI 543749. Pennisetum glaucum (L.) R. Br. POACEAE Pearl millet

**Donated by:** Gupta, S.C., Institut Senegalais de Recherches Agric., (ISRA), Bulawayo, Zimbabwe; and ICRISAT. **remarks:** ICMV 2 (IBV 8001). Received August 21, 1990.

**origin:** Zimbabwe. **origin institute:** SADCC/ICRISAT, Sorghum and Millets Program, Bulawayo. **cultivar:** ICMV 2. **pedigree:** Developed by recombining three entries: a line resistant to downy mildew (700516) from Nigeria, a composite (Serere 2A) from Uganda, and a Cassady dwarf population from Kansas, USA. **other id:** IBV 8001. **other id:** CV-4. **group:** CSR-MILLET, PEARL. **remarks:** Height medium (1.8-2.8m). Stems robust. Resistant to lodging. Flowers in 47-68 days. Matures in 85-100 days. Anther color is mixed. Heads medium long (30-41cm), cylindrical, non-bristled, and very compact. Good resistance to downy mildew (Sclerospora graminicola) and smut disease (Tolyposporium penicillariae). Grain medium size, obovate, slate grey in color, with a vitreous endosperm. Spring Annual. Cultivar. Seed.

PI 543750. Sorghum bicolor (L.) Moench POACEAE Sorghum

**Donated by:** Denton, I.R., IBPGR, Rome, Italy; and Toll, J.A., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received 1978.

**donor id:** 328. **origin:** Kenya. **collected:** 1978. **collector id:** 328. **other id:** NSL 184143.01. **other id:** FAO49236. **locality:** Kandae village, Kitui, Eastern Province. **remarks:** Sown late September, harvested late February. Cultivated. Seed.
PI 543751. Cucumis anguria L. CUCURBITACEAE West Indian gerkin


- **Donor ID:** 827.  **Origin:** Bolivia.  **Local Name:** Maxixi.  **Collected:** November 13, 1988.  **Collector ID:** 827.  **Locality:** Cobija, market, Pando Department, Nicolas Suarez Province.  **Latitude:** 11 deg. 00 min. S.  **Longitude:** 68 deg. 45 min. W.  **Elevation:** 200m.  **Remarks:** Fruit egg-shaped, to 7cm long, covered with short, thick, soft spines, light green turning yellowish. Seeds small, white, numerous. Inside of fruit has odor of cucumber, and similar texture and appearance. Cultivated locally as a vegetable. Cultivated. Seed.

PI 543752. Cucumis melo L. CUCURBITACEAE Melon


- **Donor ID:** 850.  **Origin:** Bolivia.  **Local Name:** Melon.  **Collected:** November 18, 1988.  **Collector ID:** 850.  **Locality:** Puerto de la Capitania market, Riberalta, Beni Department, Vaca Diez Province.  **Latitude:** 11 deg. 00 min. S.  **Longitude:** 66 deg. 08 min. W.  **Elevation:** 135m.  **Remarks:** Fruit oblong, to 35cm long, strongly ribbed, yellow-green and fragrant. Fresh light green, seeds light brown. Melon cultivated locally on sandbars and in chacos. Cultivated. Seed.

PI 543753 to 543760. Gossypium barbadense L. MALVACEAE Sea Island cotton


- PI 543753  **Donor ID:** 712.  **Origin:** Bolivia.  **Local Name:** Algodon blanco.  **Collected:** September 29, 1988.  **Collector ID:** 712.  **Locality:** San Ignacio de Moxos, Beni Department, Moxos Province.  **Latitude:** 14 deg. 50 min. S.  **Longitude:** 65 deg. 35 min. W.  **Elevation:** 165m.  **Remarks:** White lint on seeds. Gift of seeds from a native weaver. Said to be the variety that has always been traditionally grown here. Cultivated. Seed.


PI 543761. Inga sp. FABACEAE


donor id: 848. origin: Bolivia. local name: Pacay. collected: November 18, 1988. collector id: 848. locality: In market at the Puerto de la Capitania, Riberalta, Beni Department, Vaca Diez Province. latitude: 11 deg. 01 min. S. longitude: 66 deg. 08 min. W. elevation: 135m. remarks: Trees 1.5m tall. Flowers white. Pods 8-13cm long, smooth flattened, with rounded ends, green, turning yellow when mature. Edible white, sweet-tasting, cottony aril surrounds black seeds. Wild. Seed.

PI 543762. Jacaranda sp. BIGNONIACEAE

**PI 543762-continued**


**PI 543763 to 543764. Lonchocarpus sp. FABACEAE**


**PI 543763**

**PI 543764**
donor id: 778. origin: Bolivia. local name: Barbasco (Spanish), Daata (Tacana) Sata (Quechua). collected: October 25, 1988. collector id: 778. locality: San Jose de Uchupiamonas, Tacana and Quechua Indian town, 35km W of Tumupasa on footpath, on high bench above the Rio Tuichi, La Paz Department, Iturralde Province. latitude: 14 deg. 15 min. S. longitude: 68 deg. 10 min. W. elevation: 630m. remarks: Shrub to 3m tall. Fruits hairy pods, 14cm long. Cultivated by Indians in dooryard gardens for fish poison, the leaves being mashed and introduced into the water, quickly killing the fish. Cultivated. Seed.

**PI 543765 to 543768. Nicotiana tabacum L. SOLANACEAE Tobacco**

PI 543765 to 543768-continued

PI 543765  donor id: 706.  origin: Bolivia.  local name: Tabaco negro, Acara.  collected: September 28, 1988.  collector id: 706.  locality: San Ignacio de Moxos, 1.5km E of Town square, Beni Department, Moxos Province.  
latitude: 14 deg. 50 min. S.  longitude: 65 deg. 35 min. W.  elevation: 165 m.  remarks: Herbaceous plants 1.5m tall. Sticky leaves up to 70cm long and 50cm wide, dark green. Flowers pink. Cultivated for preparation of plug tobacco for smoking. Cultivated. Seed.

latitude: 14 deg. 50 min. S.  longitude: 65 deg. 35 min. W.  elevation: 165 m.  remarks: Plants herbaceous, 1.5m tall. Sticky leaves up to 60cm long, and 40cm wide, light green in color. Flowers pink. Cultivated for elaboration of plug tobacco for smoking. Cultivated. Seed.


PI 543768  donor id: 776.  origin: Bolivia.  local name: Tabaco (Spanish) Umasha (Tacana), Rapi (Quechua).  collected: October 25, 1988.  collector id: 776.  locality: In dooryard gardens, San Jose de Uchupiamonas, Tacana and Quechua Indian town, 35km W of Tumupasa on foot trail, on high bench above the Rio Tuichi, La Paz Department, Iturralde Province.  

PI 543769 to 543770. Rheedia sp.  CLUSIACEAE

PI 543769 to 543770—continued

PI 543769

**donor id**: 797. **origin**: Bolivia. **local name**: Camururo.  
**collected**: October 27, 1988. **collector id**: 797.  
**locality**: Tumupasa, Tacana Indian town, 50km NW of San Buenaventura, La Paz Department, Iturralde Province.  
**latitude**: 14 deg. 10 min. S. **longitude**: 67 deg. 55 min. W.  
**elevation**: 470m. **remarks**: Trees to 20m tall, 1-1.5m dbh. Fruit lemon-shaped, 5cm long, yellow when mature, covered with soft spines. Three large brown seeds are surrounded by a juicy, white, edible pulp. Grows wild in nearby forest, commonly spared and cultivated when clearing land for agriculture and house lots. Wild. Seed.

PI 543770

**donor id**: 845. **origin**: Bolivia. **local name**: Achachairu.  
**collected**: November 16, 1988. **collector id**: 845.  
**locality**: Dooryard gardens, Cobija, Pando Department, Nicolas Suarez Province. **latitude**: 11 deg. 00 min. S. **longitude**: 68 deg. 45 min. W. **elevation**: 200m.  
**remarks**: Fruits globose or teardrop shaped, smooth, 4cm diameter, yellow when ripe, containing 1-3 large oval seeds. Seeds surrounded with white, sweet, edible pulp. Wild. Seed.

PI 543771. *Spilanthes* sp. ASTERACEAE


**donor id**: 735. **origin**: Bolivia. **local name**: Yambu (Spanish) Matune (Chimane). **collected**: October 4, 1988. **collector id**: 735. **locality**: Dooryard gardens, Cero Ocho, Chimane Indian community on the Rio Curiraba, 17km NNE of the Estacion Biologica Beni, Beni Department, Yacuma Province. **latitude**: 14 deg. 30 min. S. **longitude**: 66 deg. 30 min. W. **elevation**: 218m.  

PI 543772. *Tamarindus indica* L. FABACEAE Tamarind

PI 543772-continued

**donor id:** 847.  **origin:** Bolivia.  **local name:** Tamarindo.  
**collected:** November 18, 1988.  **collector id:** 847.  
**locality:** From a owner of a tamarindo plantation, Riberalta, Beni Department, Vaca Diez Province.  
**latitude:** 11 deg. 01 min. S.  **longitude:** 66 deg. 08 min. W.  **elevation:** 135m.  
**Seed.**

PI 543773.  **UNDETERMINED sp.**  **NONE**

**Donated by:** Williams, D.E., New York Botanical Garden, Bronx, New York, United States.  
**remarks:** Collected in Northern Bolivia, September 8, 1988 through December 12, 1988. Received November 1989.

**donor id:** 853.  **origin:** Bolivia.  **local name:** Masaranduba (Spanish) Pisoji (Esse Ejja).  
**collected:** November 19, 1988.  **collector id:** 853.  **locality:** Portachuelo Bajo, Esse Ejja Indian village on Rio Beni, about 50km SSW of Riberalta, Pando Department, Madre de Dios Province.  
**latitude:** 11 deg. 15 min. S.  **longitude:** 66 deg. 18 min. W.  **elevation:** 203m.  
**remarks:** Large forest tree, producing small, round orange fruits 1.5cm in diameter with edible sweet white pulp surrounding a single black, shiny seed. The hard wood of this tree is valued for construction.  
**Seed.**

PI 543774.  **Vitex sp.**  VERBENACEAE

**Donated by:** Williams, D.E., New York Botanical Garden, Bronx, New York, United States.  
**remarks:** Collected in Northern Bolivia, September 8, 1988 through December 12, 1988. Received November 1989.

**donor id:** 855.  **origin:** Bolivia.  **local name:** Taruma (Spanish) Quijesi (Esse Ejja).  
**collected:** November 19, 1988.  **collector id:** 855.  **locality:** Portachuelo Bajo, Esse Ejja Indian village on Rio Beni, about 50km SSW of Riberalta, Pando Department, Madre de Dios Province.  
**latitude:** 11 deg. 15 min. S.  **longitude:** 66 deg. 18 min. W.  **elevation:** 203m.  
**remarks:** Large forest canopy tree. Fruits ovoid, black, closely resembling ripe olives, 2cm long, containing a single woolly seed surrounded by edible sweet pulp.  
**Seed.**
PI 543775 to 543790. Zea mays L. subsp. mays POACEAE Corn


PI 543779  
**donor id:** 754.  
**origin:** Bolivia.  
**local name:** Maiz cubana.  
**collected:** October 19, 1988.  
**collector id:** 754.  
**locality:** Macahua, Indian village 3.5km S of Ixiamas, La Paz Department, Iturralde Province.  
**latitude:** 13 deg. 45 min. S.  
**longitude:** 68 deg. 10 min. W.  
**elevation:** 326m.  
**remarks:** Ears 20cm long with 14-20 rows, cylindrical to conical. Kernels hard, mostly white, with orange below, much variability among ears. Grown by Tacana Indians for animal feed and for making "Zomo", a refreshing maize beverage. Cultivated. Seed.

PI 543780  
**donor id:** 7556.  
**origin:** Bolivia.  
**local name:** Maiz perla.  
**collected:** October 19, 1988.  
**collector id:** 7556.  
**locality:** In chacos, Ixiamas, 100km NW of San Buenaventura, La Paz Department, Iturralde Province.  
**latitude:** 13 deg. 45 min. S.  
**longitude:** 68 deg. 10 min. W.  
**elevation:** 332m.  
**remarks:** Conical ears, to 18cm long. Kernels white, hard, in 18 rows. Cultivated for animal feed and to make "Zomo" a refreshing maize beverage. Cultivated. Seed.

PI 543781  
**donor id:** 756.  
**origin:** Bolivia.  
**local name:** Maiz blando.  
**collected:** October 19, 1988.  
**collector id:** 756.  
**locality:** In chacos, Ixiamas, 100km NW of San Buenaventura, La Paz Department, Iturralde Province.  
**latitude:** 13 deg. 45 min. S.  
**longitude:** 68 deg. 10 min. W.  
**elevation:** 332m.  
**remarks:** Narrow, conical ears up to 25cm long with 12 imbricated rows of starchy, orange kernels. Cultivated for chicha and other forms of human consumption. Cultivated. Seed.

PI 543782  
**donor id:** 791.  
**origin:** Bolivia.  
**local name:** Maiz blando morado (Spanish), Cuarudije (Tacana) Puca sara (Quechua).  
**collected:** October 25, 1988.  
**collector id:** 791.  
**locality:** San Jose de Uchupiamonas, 35km W of Tumupasa on foot trail. Tacana and Quechua Indian town, on the Rio Tuichi, La Paz Department, Iturralde Province.  
**latitude:** 14 deg. 15 min. S.  
**longitude:** 68 deg. 10 min. W.  
**elevation:** 630m.  
**remarks:** Kernels purple. Used to make chicha. Cultivated. Seed.

PI 543783  
**donor id:** 792.  
**origin:** Bolivia.  
**local name:** Maiz cubana (Spanish), Jatun sara (Quechua).  
**collected:** October 25, 1988.  
**collector id:** 792.  
**locality:** San Jose de Uchupiamonas, 35km W of Tumupasa, Tacana and Quechua Indian town, on the Rio Tuichi, La Paz Department, Iturralde Province.  
**latitude:** 14 deg. 15 min. S.  
**longitude:** 68 deg. 10 min. W.  
**elevation:** 630m.  
Cultivated. Seed.
PI 543775 to 543790—continued

PI 543784  donor id: 793.  origin: Bolivia.  local name: Maiz blando colorado (Spanish), Rije erii (Tacana) Quillu sara (Quechua).  collected: October 25, 1988.  collector id: 793.  locality: San Jose de Uchupiamonas, Tacana and Quechua Indian community, 35km W of Tumupasa on the Rio Tuichi, La Paz Department, Iturralde Province.  remarks: Ears 28cm long. Kernels and cob white, husks white or purple, 12-14 rows. Used to make chicha. Cultivated. Seed.


PI 543775 to 543790-continued


PI 543791. Triticum aestivum L. POACEAE


origin: United States. cultivar: BEARDLESS BRONZE. other id: NSL 98627. remarks: Beardless bronze wheat segregated from the Cheyenne variety No further background info available at NSSL. Seed.

PI 543792. Nicotiana tabacum L. SOLANACEAE Tobacco


PI 543793. Glycine max (L.) Merr. FABACEAE Soybean


PI 543794. Glycine max (L.) Merr. FABACEAE Soybean


PI 543795. Glycine max (L.) Merr. FABACEAE Soybean


PI 543796 to 543799. Pennisetum sphacelatum (Nees) Dur. & Schinz
POACEAE

Donated by: Moss, H., IBPGR, c/o Department of Biological Science,
University of Zimbabwe, Mount Pleasant, Harare, Zimbabwe. remarks:
Received from IBPGR, Rome, Italy. Received March 08, 1990.

PI 543796 donor id: 425. origin: Lesotho. collected: January 24,
1989. collector id: 425. locality: Valley slope, grassland, small valley-stream banks and moist

PI 543797 donor id: 449. origin: Lesotho. collected: January 26,

PI 543798 donor id: 481. origin: Lesotho. collected: January 28,

PI 543799 donor id: 490. origin: Lesotho. collected: January 29,

PI 543800 to 543806. Pennisetum thunbergii Kunth POACEAE

Donated by: Moss, H., IBPGR, c/o Department of Biological Science,
University of Zimbabwe, Mount Pleasant, Harare, Zimbabwe. remarks:
Received from IBPGR, Rome, Italy. Received March 08, 1990.


PI 543807. Pennisetum villosum R. Br. ex Fres. POACEAE Feathertop

Donated by: Moss, H., IBPGR, c/o Department of Biological Science, University of Zimbabwe, Mount Pleasant, Harare, Zimbabwe. remarks: Received from IBPGR, Rome, Italy. Received March 08, 1990.


PI 543808. Chamaecytisus prolifer (L. f.) Link FABACEAE Tagasate

Donated by: Renrun, Wu, Lanzhou Institute of Animal Science, Xiaoxihu, Lanzhou, Gansu, China. remarks: Received through T.A. Campbell, Soybean and Alfalfa Research Lab, USDA-ARS, Beltsville, Maryland. Received July 19, 1990.

origin: Australia. remarks: Received from Australia. Cultivated. Seed.
PI 543809 to 543811. Capsicum annuum L. SOLANACEAE

Donated by: Ledo, H.D., Seed Production and Trading Company, Research Institute, P.O. Box 41, H-6601 Szentes, Hungary. Received July 03, 1990.


PI 543812. Gossypium hirsutum L. MALVACEAE Cotton

Donated by: Dawson County Seed Company, Route B, Lamesa, Texas, United States. Received November 20, 1980.


PI 543813. Aniseia martinicensis (Jacq.) Choisy CONVOLVULACEAE

Donated by: Jarret, R.L., Southern Regional Plant Intr. Station, USDA-ARS, 1109 Experiment Street, Griffin, Georgia, United States. Received September 09, 1990.


PI 543814. Ipomoea pes-caprae (L.) R. Br. CONVOLVULACEAE

Donated by: Jarret, R.L., Southern Regional Plant Intr. Station, USDA-ARS, 1109 Experiment Street, Griffin, Georgia, United States. Received September 09, 1990.

PI 543815 to 543831. Ipomoea trifida (Kunth) G.Don CONVOLVULACEAE

Donated by: Jarret, R.L., Southern Regional Plant Intr. Station, USDA-ARS, 1109 Experiment Street, Griffin, Georgia, United States. Received September 09, 1990.

PI 543815  donor id: JA 0100.  origin: Costa Rica.  collected: January 09, 1990.  locality: Plants sprawling on ground, fencing and along drive, 0.3km E of entrance to Playa Ocotal.  remarks: Large population.  Wild.  Seed.


PI 543819  donor id: JA 0106.  origin: Costa Rica.  collected: January 09, 1990.  locality: 0.5km from Laguna Escondida, along roadside, en route to entrance gate of Santa Rosa National Park.  elevation: 50m.  Wild.  Seed.

PI 543820  donor id: JA 0107.  origin: Costa Rica.  collected: January 09, 1990.  locality: Plants climbing on grass, 0.3km inside Santa Rosa National Park entrance, en route to Playa Naranjo.  remarks: A few isolated plants.  Wild.  Seed.

PI 543821  donor id: JA 0108.  origin: Costa Rica.  collected: January 10, 1990.  locality: Along roadside, 47.9km S on Route 21 from turnoff to Playa Ocotal.  elevation: 50m.  remarks: Small population.  Wild.  Seed.

PI 543822  donor id: JA 0109.  origin: Costa Rica.  collected: January 10, 1990.  locality: Plants climbing on grass, 64.2km S on Route 21 from turnoff to Playa Ocotal.  elevation: 50m.  remarks: Small population.  Wild.  Seed.

PI 543815 to 543831-continued

PI 543824  
**donor id:** JA 0111.  **origin:** Costa Rica.  **collected:** January 10, 1990.  **locality:** Plants climbing on fence, 0.3km off of Route 21 on hardtop road W to Playa Ocotal.  **elevation:** 50m.  **remarks:** Fair-sized population.  Wild.  Seed.

PI 543825  
**donor id:** JA 0112.  **origin:** Costa Rica.  **collected:** January 11, 1990.  **locality:** Sprawling in grass, north side of Rio Carana, 6.7km S of Liberia on Pan American Highway, Route 1, in front of Mangoes Tico.  **elevation:** 50m.  **remarks:** Large dispersed population.  Wild.  Seed.

PI 543826  
**donor id:** JA 0113.  **origin:** Costa Rica.  **collected:** January 11, 1990.  **locality:** Growing over rocks, 13km NE on route 42 from Canas, 0.1km S of entrance to Angeles.  **elevation:** 100m.  Wild.  Seed.

PI 543827  
**donor id:** JA 0114.  **origin:** Costa Rica.  **collected:** January 11, 1990.  **locality:** Sprawling in grass on roadside, 15.8km N from Bagaces on route 164 to Fortuna, 1.9km after left turnoff to Fortuna.  **elevation:** 150m.  Wild.  Seed.

PI 543828  
**donor id:** JA 0115.  **origin:** Costa Rica.  **collected:** January 11, 1990.  **locality:** On ground in vacant waste area, 0.1km NE on Route 142, near 142 km marker stone, Canas.  **elevation:** 100m.  Wild.  Seed.

PI 543829  
**donor id:** JA 0116.  **origin:** Costa Rica.  **collected:** January 11, 1990.  **locality:** On dirt road, 50m from beach, 0.5-0.6km E of Playa Tamarindo entrance gates, Playa Tamarindo.  **elevation:** 1-2m.  **remarks:** Large population.  Wild.  Seed.

PI 543830  
**donor id:** JA 0117.  **origin:** Costa Rica.  **collected:** January 12, 1990.  **locality:** In field on dirt road, 3.8km E of entrance gate to Playa Ocotal, El Coco.  **elevation:** 25m.  **remarks:** Large population.  Wild.  Seed.

PI 543831  
**donor id:** JA 0118.  **origin:** Costa Rica.  **collected:** January 12, 1990.  **locality:** Near highway drainage conduit, climbing in grass, 19.3km S of Rio Lajas on Route 1, Pan American Highway.  **elevation:** 100m.  **remarks:** Small population.  Wild.  Seed.

PI 543832. Glycine max (L.) Merr.  **FABACEAE** Soybean

**Donated by:** Louisiana Agr. Exp. Sta., Louisiana, United States.  
**Received September 04, 1990.**
PI 543832-continued


PI 543833. Lolium perenne L. POACEAE Perennial ryegrass

Donated by: Seed Research of Oregon, Inc., Oregon, United States. Received September 04, 1990.


PI 543834. Festuca rubra L. POACEAE Chewings fescue

Donated by: Seed Research of Oregon, Inc., Oregon, United States. Received September 04, 1990.

Festuca rubra subsp. commutata Gaud. POACEAE Chewings fescue

PI 543835. Lolium perenne L. POACEAE Perennial ryegrass


PI 543836. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Hurley, R.H., Lofts Seed, Inc., Chimney Rock Road, Bound Brook, New Jersey, United States. Received September 04, 1990.

PI 543837. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Weaver Seed Co., United States. Received September 04, 1990.


PI 543838. Festuca arundinacea Schreber POACEAE Tall fescue


PI 543839. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Seaboard Seed Co./Smith Seed Services, United States. Received September 04, 1990.


PI 543840 to 543850. Zea mays L. subsp. mays POACEAE Corn

Donated by: Pioneer Hi-Bred International, United States. Received September 04, 1990.


PI 543843 origin: United States. cultivar: PHN34. other id: PVP 9000248. source: Pending. group: PVPO. Cultivar. Seed.

PI 543845 origin: United States.  
cultivar: PHP38.  
other id: PVP 9000250.  
source: Pending.  
group: PVPO.  
Cultivar.  
Seed.

PI 543846 origin: United States.  
cultivar: PHP76.  
other id: PVP 9000251.  
source: Pending.  
group: PVPO.  
Cultivar.  
Seed.

PI 543847 origin: United States.  
cultivar: PHV07.  
other id: PVP 9000252.  
source: Pending.  
group: PVPO.  
Cultivar.  
Seed.

PI 543848 origin: United States.  
cultivar: PHW06.  
other id: PVP 9000253.  
source: Pending.  
group: PVPO.  
Cultivar.  
Seed.

PI 543849 origin: United States.  
cultivar: PHW51.  
other id: PVP 9000254.  
source: Pending.  
group: PVPO.  
Cultivar.  
Seed.

PI 543850 origin: United States.  
cultivar: PHW86.  
other id: PVP 9000255.  
source: Pending.  
group: PVPO.  
Cultivar.  
Seed.

PI 543851 to 543853.  
Oryza sativa L.  
POACEAE  
Rice

Donated by: Rutger, J.N., USDA-ARS, California Agric. Exp. Sta., 
Davis, California, United States.  
Received August 21, 1990.

PI 543851 origin: United States.  
origin institute: USDA-ARS, 
California Agric. Exp. Sta., Davis, California.  
cultivar: CALROSE 76 PHOTOSENSITIVE GENETIC MS.  
pedigree: Anther culture-derived from cultivar, Calrose 76.  
remarks: Recessive genetic male sterility that is 
turned on and off by day length. In long days, 15 hours, 
e.g. Davis, sterility occurs. In short days, 12 hours, 
e.g. Hawaii, sterile plants become fertile. Seed source 
1988 Davis rows; bulked fertile panicles (1/plant) in 
rows segregating 3 fertile, 1 sterile. In long day 
environments, such as Davis, seeds should produce plants 
segregating 5 fertile, 1 sterile.  
Cultivated.  
Seed.
PI 543852  
**origin:** United States.  
**origin institute:** USDA-ARS, California Agric. Exp. Sta., Davis, California.  
**cultivar:** M-101 GENETIC MS I-2.  
**pedigree:** Induced by gamma rays from cultivar, M-101.  

PI 543853  
**origin:** United States.  
**origin institute:** USDA-ARS, California Agric. Exp. Sta., Davis, California.  
**cultivar:** M-201 NP GENETIC MS.  
**pedigree:** Induced by streptomycin from cultivar, M-201.  

PI 543854. Paspalum vaginatum Swartz  POACEAE

**Donated by:** Sakamoto, G.S., USDA-SCS, Hoolehua, Hawaii, United States.  
**remarks:** Joint release of USDA-SCS and Hawaii Institute of Tropiculture Agriculture and Human Resources. Received July 02, 1990.  

**donor id:** 9037868.  
**origin:** United States.  
**cultivar:** TROPIC SHORE.  
**other id:** T-37868.  
**other id:** HA-190.  
**remarks:** Perennial creeping, stoloniferous & rhizomatous 38-50.8cm tall. Developed for stabilizing shoreline, banks of aquaculture ponds, canals and streams with brackish and salty water. Less aggressive with regard to growing out in the water. May be planted for pasture, lawns and other uses where only salt water is available. May also be used for erosion control where the water is nonsaline. Adapted to. Perennial. Cultivar. Plant.

PI 543855. Glycine max (L.) Merr.  FABACEAE  Soybean

**Donated by:** Mansur, L.M., Iowa Agr. and Home Econ. Exp. Station, Iowa State University, 1210 Agronomy, Ames, Iowa, United States; and Agricultural Research Service -- USDA; and Puerto Rico Agr. Exp. Sta..  
**remarks:** Newton Soybean. Received September 19, 1990.
PI 543855-continued


PI 543856. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Cooper, R.L., Agricultural Research Service -- USDA, Ohio State University, Dept. of Agronomy, Wooster, Ohio, United States; and Ohio Agr. Res. and Dev. Center. remarks: Pixie Soybean. Received September 18, 1990.


PI 543857. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Cooper, R.L., Agricultural Research Service -- USDA, Ohio State University, Dept. of Agronomy, Wooster, Ohio, United States; and Ohio Agr. Res. and Dev. Center. remarks: Gnome 85 Soybean. Received September 18, 1990.
PI 543857-continued


PI 543858 to 543859. Gossypium hirsutum L. MALVACEAE Upland cotton

Donated by: Green, C.C., Agricultural Research Service -- USDA, P.O. Box 2131, Florence, South Carolina, United States; and South Carolina Agr. Exp. Sta.. remarks: Two Germplasm Lines of Upland Cotton with High Yield Potential and Fiber Quality. Received September 18, 1990.


PI 543860 to 543863. Gossypium hirsutum L. MALVACEAE Upland cotton

Donated by: Green, C.C., Agricultural Research Service -- USDA, P.O. Box 2131, Florence, South Carolina, United States; and South Carolina Agr. Exp. Sta.. remarks: Four Germplasm Lines of Upland Cotton with Early Maturity and Fiber Quality. Received September 18, 1990.

343


PI 543864 to 543868. Gossypium hirsutum L. MALVACEAE Upland cotton

Donated by: Green, C.C., Agricultural Research Service -- USDA, P.O. Box 2131, Florence, South Carolina, United States; and South Carolina Agr. Exp. Sta.. remarks: Five Germplasm Lines of Upland Cotton with High Yield Potential and Fiber Quality. Received September 18, 1990.

PI 543864 to 543868-continued


PI 543869. Crotalaria ochroleuca G. Don  **FABACEAE**

**Donated by**: Sunnhemp Seed Bank, P.O. Box 1, Peramiho, Tanzania.  
Received June 13, 1990.

**origin**: Tanzania.  Seed.

PI 543870 to 543872. Zea mays L. subsp. mays  **POACEAE**  **Corn**

PI 543870 origin: Tanzania. cultivar: UKIRIGURU COMPOSITE A.
remarks: Mostly of flint type but some dent present.
Open-pollinated. Plant ht. is 300 cm. Lodging -- moderate 4.
Ear ht. is 150 cm, 1 ear per stalk, good ear coverage,
ear length is 25-30 cm, cob color is white, rows are
variable (12 or 14), white kernel, good resistance to
rust, good resist. to blight, susceptible to corn borer,
and other disease resistance factors not tested. It is
one of the basic maize breeding. Seed.

PI 543871 origin: Tanzania. cultivar: UKIRIGURU COMPOSITE B.
remarks: Composite formed from varieties with great
genetic diversity. Will be used as breeding population
for long term improvement and maintainance of genetic
diversity. Seed.

PI 543872 origin: Tanzania. cultivar: UKIRIGURU COMPOSITE B-W.
remarks: Composite is one of the basic maize breeding
populations in Tanzania for areas with 3000-6500 ft.
elevation. It is in use as open pollinated variety and
will be used in the future in the variety cross Ukiriguru
A x Ukiriguru B-W. Seed.

PI 543873 to 543875. Oryza sativa L. POACEAE Rice

Donated by: Chang, T.T., International Rice Research Institute,
International Rice Germplasm Center, P.O. Box 933, Manila, Luzon,
Philippines. Received May 16, 1989.

collector id: 05008. other id: F 6. other id: 2346.
other id: 72483. remarks: Seeds large. Awned.

collector id: 05008. other id: F 7. other id: 2346.

collector id: 05008. other id: F 8. other id: 72485.
Perennial. Seed.

PI 543876 to 543883. Oryza sp. POACEAE

Donated by: Chang, T.T., International Rice Research Institute,
International Rice Germplasm Center, P.O. Box 933, Manila, Luzon,
Philippines. Received May 10, 1989.
PI 543876 to 543883-continued

PI 543876  
**donor id:** UCB511.  
**origin:** UNCERTAIN.  
**cultivar:** NAM ROO.  
**collector id:** UCB511.  
**other id:** F 9.  
**other id:** 2336.  
Perennial.  
Seed.

PI 543877  
**origin:** UNCERTAIN.  
**cultivar:** KHAO KHAI 1.  
**other id:** F 10.  
**other id:** 2336.  
**other id:** 23430.  
Perennial.  
Seed.

PI 543878  
**origin:** UNCERTAIN.  
**cultivar:** MOTOZA.  
**other id:** F 11.  
**other id:** 2336.  
**other id:** 66906.  
Perennial.  
Seed.

PI 543879  
**origin:** UNCERTAIN.  
**cultivar:** KHAO' DAENG HAWN.  
**other id:** F 12.  
**other id:** 2336.  
Perennial.  
Seed.

PI 543880  
**donor id:** ACC 71.  
**origin:** UNCERTAIN.  
**cultivar:** KHAO DAENG.  
**collector id:** ACC 71.  
**other id:** F 13.  
**other id:** 2336.  
**other id:** 05007.  
Perennial.  
Seed.

PI 543881  
**donor id:** 7693.  
**origin:** UNCERTAIN.  
**cultivar:** TOSAHATA MOCHI.  
**collector id:** 7693.  
**other id:** F 16.  
**other id:** 2336.  
Perennial.  
Seed.

PI 543882  
**donor id:** 14778.  
**origin:** UNCERTAIN.  
**cultivar:** HATAHONAMI.  
**collector id:** 14778.  
**other id:** F 19.  
**other id:** 2336.  
Perennial.  
Seed.

PI 543883  
**donor id:** 14780.  
**origin:** UNCERTAIN.  
**cultivar:** CHIYOMINORI.  
**collector id:** 14780.  
**other id:** F 20.  
**other id:** 2336.  
Perennial.  
Seed.

PI 543884 to 543885. Oryza sativa L.  
POACEAE Rice

**Donated by:** Watanabe, Shinji, Nat. Inst. of Agrobiological Resources, Kannondai, Tsukuba, Ibarski, Japan.  
Received July 07, 1989.

PI 543884  
**donor id:** 143.  
**origin:** UNCERTAIN.  
**cultivar:** NORIN PL 2.  
**collector id:** 143.  
**other id:** F 21.  
**other id:** 1800.  
Perennial.  
Seed.

PI 543885  
**donor id:** 143.  
**origin:** UNCERTAIN.  
**cultivar:** NORIN PL3.  
**collector id:** 143.  
**other id:** F 22.  
**other id:** 1800.  
Perennial.  
Seed.

PI 543886. Oryza sativa L.  
POACEAE Rice

**Donated by:** Khush, G.S., International Rice Research Institute, Los Banos, Laguna, Philippines.  
Received July 07, 1989.

**origin:** UNCERTAIN.  
**cultivar:** IR 033 88.  
**other id:** F 23.  
**other id:** 1655.  
**other id:** IR 03388.  
Perennial.  
Seed.
PI 543887. Oryza sativa L. POACEAE Rice

**Donated by:** Bockelman, H.E., USDA-ARS-NSGGRF, P.O. Box 307, Aberdeen, Idaho, United States. Received July 07, 1989.

**origin:** UNCERTAIN. **cultivar:** THUNG MON HWA SHO. **other id:** F 24. **other id:** 1800. **other id:** ACC 3543. Perennial. Seed.

PI 543888. Oryza sativa L. POACEAE Rice

**Donated by:** Chang, T.T., International Rice Research Institute, International Rice Germplasm Center, P.O. Box 933, Manila, Luzon, Philippines. Received July 08, 1989.

**origin:** UNCERTAIN. **cultivar:** HABIGANJ AMON 2. **other id:** F 93. **other id:** ACC 11933. Perennial. Seed.

PI 543889 to 543892. Tripsacum dactyloides (L.) L. POACEAE Eastern gamagrass

**Donated by:** Dewald, C.L., Southern Plains Range Res. Sta., 2000 18th Street, Woodward, OK, United States. Received October 01, 1990.

**PI 543889**

**origin:** United States. **cultivar:** WW-1903. **other id:** FT-I. **remarks:** Fertile warm season triploid bunchgrass with up-right habit. Foliage deep green with basal and cauline leaves, 15 to 20mm wide and 30 to 60cm long at maturity. Foliage height average approx. .75 to 1.5m with seed stalks reaching 2-2.5m. Seed maturity slightly later than native diploids and occurs during late July at Woodward, OK. Disease resistance good to anthracnose (Colletotrichum sp.). Perennial. Cultivar. Seed.

**PI 543890**

**origin:** United States. **cultivar:** WW-1906. **other id:** FT-II. **remarks:** Fertile warm season triploid bunchgrass with up-right habit. Foliage deep green with basal and cauline leaves, 15 to 20mm wide and 30 to 60cm long at maturity. Foliage height average approx. .75 to 1.5m with seed stalks reaching 2-2.5m. Seed maturity slightly later than native diploids and occurs during late July at Woodward, OK. Disease resistance good to anthracnose (Colletotrichum sp.). Perennial. Cultivar. Seed.
PI 543891  
**origin:** United States.  
**cultivar:** WW-1908.  
**other id:** FT-III.  
**remarks:** Fertile warm season triploid bunchgrass with up-right habit. Foliage deep green with basal and cauline leaves, 15 to 20mm wide and 30 to 60cm long at maturity. Foliage height average approx. .75 to 1.5m with seed stalks reaching 2-2.5m. Seed maturity slightly later than native diploids and occurs during late July at Woodward, OK. Disease resistance good to anthracnose (Colletotrichum sp.). Perennial. Cultivar. Seed.

PI 543892  
**origin:** United States.  
**cultivar:** WW-1912.  
**other id:** FT-IV.  
**remarks:** Fertile warm season triploid bunchgrass with up-right habit. Foliage deep green with basal and cauline leaves, 15 to 20mm wide and 30 to 60cm long at maturity. Foliage height average approx. .75 to 1.5m with seed stalks reaching 2-2.5m. Seed maturity slightly later than native diploids and occurs during late July at Woodward, OK. Disease resistance good to anthracnose (Colletotrichum sp.). Perennial. Cultivar. Seed.

PI 543893.  
*Triticum aestivum* L.  
**POACEAE**  
Winter wheat  

**Donated by:** Baenziger, P.S., Nebraska Agr. Exp. Sta., University of Nebraska, 330 Keim Hall, Lincoln, NE, United States. Received October 01, 1990.  

**origin:** United States.  
**cultivar:** RAWHIDE.  
**other id:** NE83498.  
**remarks:** Hard red, semi-dwarf, awned, white glume type. Winterhardiness good. Straw moderately strong. Resistance moderate to currently prevalent races of stem rust (contains Sr17, Sr24, and/or Sr3l) and Hessian fly. Susceptible to leaf rust, wheat soilborne mosaic virus, and wheat streak mosaic virus. Test weight characteristics good. Winter Annual. Breeding Material. Seed.

PI 543894.  
*Limonanthus alba* Hartweg ex Benth. var. alba  
**LIMNANTHACEAE**  

**Donated by:** Oregon Agr. Exp. Sta., Oregon State University, Corvallis, Oregon, United States. Received 1975.
PI 543894-continued


PI 543895 to 543914. Desmanthus illinoensis (Michaux) MacMillan ex Robinson & Fern. FABACEAE Illinois bundleflower


donor id: 9028950. origin: United States. 
other id: MS-4974. locality: Texas. remarks: Composite sample from Knox City PMC. Perennial. Seed.

donor id: 9028953. origin: United States. 

donor id: 9028955. origin: United States. 
other id: MS-5009. locality: Chickasaw County, Mississippi. Perennial. Seed.

donor id: 9028956. origin: United States. 

donor id: 9028957. origin: United States. 

donor id: 9028958. origin: United States. 

donor id: 9028374. origin: United States. 

donor id: 9028381. origin: United States. 

donor id: 9028429. origin: United States. 

donor id: 9028430. origin: United States. 
Desmanthus virgatus (L.) Willd. FABACEAE


Zea mays L. subsp. mays POACEAE Corn

Donated by: Scott, G.E., Agricultural Research Service -- USDA, Crop Science Research Lab., P.O. Box 5248, Mississippi State, Mississippi, United States. Received October 09, 1990.


PI 543918 to 543919. Zea mays L. subsp. mays POACEAE Corn


PI 543920. Lens culinaris Medikus FABACEAE Lentil


PI 543921. Cicer arietinum L. FABACEAE Chickpea


remarks: Sarah Chickpea. Received October 09, 1990.


PI 543922. Nicotiana tabacum L. SOLANACEAE Tobacco

Donated by: Wilkinson, C.A., Virginia Polytechnic Institute, P.O. Box 448, Blackstone, Virginia, United States. remarks: VA 116 Tobacco. Received October 09, 1990.

origin: United States. origin institute: Virginia Polytechnic Institute, P.O. Box 448, Blackstone, Virginia 23824. cultivar: VA 116. pedigree: NC 82/C 319. other id: CV-101. group: CSR-TOBACCO. remarks: Plants approx. 100cm tall, produces 19 harvestable leaves when topped, and flowers 64 days after transplanting. Average yield 3231kg/ha and 2847kg/ha in 1986 and 1989, respectively. Resistance moderate to black smut (Phytophthora parasitica), Granville wilt (Pseudomonas solanacearum) and brown spot (Alternaria alternata). Spring Annual. Cultivar. Seed.

PI 543923 to 543925. Phaseolus vulgaris L. FABACEAE Pinto bean

PI 543923 to 543925-continued

PI 543923  
**origin:** United States.  
**origin institute:** Colorado Agr. Exp. Sta., Colorado State University, Fort Collins, Colorado 80523.  
**cultivar:** CO 81-12001.  
**pedigree:** Ouray/Aurora(7342-1).  
**other id:** GP-94.  
**group:** CSR-OTHER LEGUMES.  
**remarks:** Upright growth habit line. Unique and commercially unacceptable in dry pack sales because of pink hilar ring rather than normal yellow. Mean plant maturity, seed weight, and yield: 95 days, 32.17g per 100 seeds, and 2530kg/ha, respectively, during 1984-1985 at 10 location-years in Colorado. Spring Annual. Breeding Material. Seed.

PI 543924  
**origin:** United States.  
**origin institute:** Colorado Agr. Exp. Sta., Colorado State University, Fort Collins, Colorado 80523.  
**cultivar:** CO-22625.  
**pedigree:** Olathe/Nebl.  
**other id:** GP-92.  
**group:** CSR-OTHER LEGUMES.  
**remarks:** High-yielding, semi-vine growth habit (Type III) line. Mean plant maturity during 3 years at Fort Collins, CO, 92 days. Seed weight and yield 30.3g per 100 seeds and 2890kg/ha, respectively, based on 10 location-years of testing in eastern Colorado. Spring Annual. Breeding Material. Seed.

PI 543925  
**origin:** United States.  
**origin institute:** Colorado Agr. Exp. Sta., Colorado State University, Fort Collins, Colorado 80523.  
**cultivar:** CO 33142.  
**pedigree:** 16/2207(5517-2)//A56240(6B)/3/13B/MO67(7016).  
**other id:** GP-93.  
**group:** CSR-OTHER LEGUMES.  
**remarks:** Large-seeded, semi-vine line. Mean plant maturity during 1984-87 at Fort Collins, CO, 96 days. Seed weight and yield 36g per 100 seeds and 2367kg/ha, respectively, based on 10 location-years in eastern Colorado. White mold (Sclerotinia sclerotiorum) variety trial results from University of Nebraska indicated 50% infection compared to mean of 59%. Spring Annual. Breeding Material. Seed.

PI 543926. Gossypium hirsutum L. MALVACEAE Cotton

**Donated by:** B & M Cotton Company, United States. Received September 27, 1990.

**origin:** United States.  
**cultivar:** SAN SIMON DEL CERRO.  
**other id:** PVP 9000256.  
**source:** Pending.  
**group:** PVPO. Cultivar. Seed.

PI 543927. Lactuca sativa L. ASTERACEAE Lettuce

**Donated by:** Genecorp, Inc., United States. Received September 27, 1990.
PI 543927-continued


PI 543928. Festuca rubra subsp. commutata Gaud. POACEAE Chewings fescue

Donated by: International Seeds, United States. Received September 27, 1990.


PI 543929 to 543930. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Seaboard Seed Co./Smith Seed Services, United States. Received September 27, 1990.


PI 543931. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Pickseed West, Inc., United States. Received September 27, 1990.


PI 543932 to 543936. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Northrup King Company, United States. Received September 27, 1990.

PI 543932 origin: United States. cultivar: S00-88. other id: PVP 9000262. source: Pending. group: PVPO. Cultivar. Seed.

PI 543932 to 543936-continued


PI 543937. Brassica napus L.  BRASSICACEAE  Rape

Donated by: W. Weibull AB, United States. Received September 27, 1990.


PI 543938. Poa pratensis L.  POACEAE  Kentucky bluegrass

Donated by: Pickseed West, United States. Received September 27, 1990.


PI 543939. Prunus salicina var. mandshurica (Skvortzov) Skvortzov & Baranov  ROSACEAE

Donated by: VIR, 44 Herzen Street, Leningrad, USSR. remarks: Received through the American Embassy, Moscow. Received September 16, 1971.


PI 543940. Prunus armeniaca L.  ROSACEAE  Apricot

Donated by: Fruit Research Institute, 32000 Cacak, Yugoslavia. Received March 11, 1976.

PI 543941. Prunus armeniaca L. ROSACEAE Apricot

Donated by: Fideghelli, Carlo, Inst. Sperimentale per la Frutticoltura, Via de Fioranello n. 52,, 00040 Ciampino Aeroporto, Rome, Italy. Received August 10, 1976.


PI 543942 to 543944. Prunus armeniaca L. ROSACEAE Apricot

Donated by: Research Institute for Fruit Growing, Pitesti-Maracineni, Romania. Received August 20, 1976.

PI 543942

PI 543943

PI 543944

PI 543945 to 543946. Prunus armeniaca L. ROSACEAE Apricot

Donated by: Cociu, V., Research Institute for Fruit Growing, Pitesti-Maracineni, Romania. Received March 14, 1979.

PI 543945

PI 543946

PI 543947. Prunus hybrid ROSACEAE

Donated by: Watanabe, Kenji, Gotenba Noen, 59 Nagatsuka Golenbashi, Shizuoka-ken, Honshu, Japan. Received April 17, 1979.


358
PI 543948. Prunus armeniaca L. ROSACEAE Apricot

Donated by: Res. Sta. for Fruit Tree Production, INRA, La Grande Ferrade, 33140 Pont-de-la-Maye, Bordeaux, France. Received August 01, 1979.


PI 543949. Prunus domestica subsp. insititia (L.) C. Schneider ROSACEAE Plum

Donated by: Dept. de Hortofruticultura, INIA, Murcia, Spain. Received February 06, 1980.


PI 543950. Prunus dulcis (Miller) D. Webb ROSACEAE Almond

Donated by: Helms, Glenn, Route 1 Box 242, Hellertown, Pennsylvania, United States. Received March 04, 1980.


PI 543951 to 543952. Prunus cerasus L. ROSACEAE Sour cherry

Donated by: Scorza, Ralph, Appalachian Fruit Research Station, USDA-ARS, Route 2, Box 45, Kearneysville, West Virginia, United States. Received August 07, 1981.


PI 543953 to 543954. Prunus cerasus L. ROSACEAE Sour cherry

Donated by: Scorza, Ralph, Appalachian Fruit Research Station, USDA-ARS, Route 2, Box 45, Kearneysville, West Virginia, United States. Received August 07, 1981.

PI 543953 to 543954-continued


PI 543955. Prunus mume Siebold & Zucc. ROSACEAE Japanese apricot

Donated by: Sun, Yat-Sen, Hortus Botanicus Nanjingensis, Nanjing, Jiangsu, China. Received December 21, 1981.


PI 543956 to 543957. Prunus domestica L. ROSACEAE Plum

Donated by: Kapetanovic, Nada, Poljoprivredni Fakultet, 71000 Sarajevo, Zagrevaika, Yugoslavia. Received March 05, 1982.


PI 543958. Prunus armeniaca L. ROSACEAE Apricot

Donated by: Sta. de Recherches Fruitieres Mediterran, INRA, de St. Paul, 84140 Montfavet, France. Received March 01, 1983.


PI 543959. Lactuca sativa L. ASTERACEAE

Donated by: Texas Agr. Exp. Sta., Texas, United States. Received 1963.

origin: United States. cultivar: VALMAINE. other id: NSL 28226. remarks: More uniform plant type and salad quality than Parris Island. Plants taller, darker green and have better caps and straighter leaves. Matures slightly earlier or at same time as Parris Island. Plants upright, rigid, 14-16 inches high. Head 10-11 inches long, 3-4 inches diameter. Leaves slightly curly. Outer leaves dark green. Center leaves golden yellow. High resistance to downy mildew. Annual. Cultivar. Seed.
PI 543960. Lactuca sativa L. ASTERACEAE

Donated by: Seed Res. Spec., California, United States. Received 1961.


PI 543961. Lactuca sativa L. ASTERACEAE

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


PI 543962. Lactuca sativa L. ASTERACEAE

Donated by: E. State Farmers, United States. Received 1962.


PI 543963 to 543964. Lactuca sativa L. ASTERACEAE

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

PI 543963 origin: France. cultivar: BATAVIA BLONDE DE PARIS. other id: Brittle Ice. other id: NSL 8637. remarks: Crisp head type, medium size, soft, loose heads, but with each leaf overlapping the other. Leaves broad oval and cupped, with serrated margins, and prominent mid-veins or "ribs". Color medium green. Moderately resistant to tip-burn. Forms head under wide fluctuations in the environment. Annual. Cultivar. Seed.

PI 543965. Lactuca sativa L. ASTERACEAE

**Donated by:** Corneli, Missouri, United States. Received 1962.

- **Origin:** Canada. **Developer Country:** Canada. **Origin Institute:** Horticultural Experiment Station, Vineland, Ontario. **Cultivar:** VELVET. **Other ID:** NSL 20117.
- **Remarks:** Closely resembles Bibb but stands without bolting as much as a month longer. Takes longer than Bibb to mature to full size, but will produce heads same size as Bibb in same number of days. Heads similar to Bibb except grows larger and leaves not fringed with red. Very fine eating quality. **Annual. Cultivar. Seed.**

PI 543966. Lactuca sativa L. ASTERACEAE

**Donated by:** Ferry-Morse Seed Company, California, United States. Received 1963.

- **Origin:** United States. **Cultivar:** DARK GREEN COS. **Other ID:** NSL 22155. **Remarks:** Maturity 70 days. Trimmed size large. Leaves large, thick, slightly savoyed. Color dark green. Local market and home garden use. Home garden usually planted in late summer for fall crop. **Annual. Cultivar. Seed.**

PI 543967 to 543969. Lactuca sativa L. ASTERACEAE

**Donated by:** Asgrow Seed Company, Michigan, United States. Received 1963.

- **PI 543967**
  - **Origin:** United States. **Cultivar:** FORTY-NINER. **Other ID:** NSL 26464. **Remarks:** Cool season variety. Resistance to big vein and rib-breakdown. Color and good shipping characteristics of Great Lakes. Particularly well suited for early spring plantings at Salinas and for late fall crops in the Salinas and Patterson-Brentwood districts of California. **Annual. Cultivar. Seed.**

- **PI 543968**
PI 543967 to 543969-continued

PI 543969  

PI 543970. Lactuca sativa L. ASTERACEAE

**Donated by**: Honma, S., Michigan State University, Department of Horticulture, East Lansing, Michigan, United States. Received 1980.

**origin**: United States.  **cultivar**: SUPERBB. **other id**: NSL 113038. **remarks**: Maturity 8-10 days earlier than Bibb when grown in greenhouse in soil beds for hydroponics. Vigorous growth. Tolerant to low light intensity. Adapted to wide range of day lengths. Leaf character and quality of Bibb though not as dark green. Plants slightly larger than Bibb. Flavor similar to Bibb. Annual. Cultivar. Seed.

PI 543971 to 543972. Lactuca sativa L. ASTERACEAE

**Donated by**: Plant Variety Protection Office, Agricultural Marketing Service -- USDA, NAL Building, Rm. 500, Beltsville, Maryland, United States. Received 1988.

PI 543971  
**origin**: United States. **origin institute**: Brinker Orsetti Seed Inc..  **cultivar**: RED LAKES. **other id**: PVP 8800205. **source**: Application withdrawn. **group**: PVPO. **other id**: NSL 236195. Annual. Cultivar. Seed.

PI 543972  
**origin**: United States. **origin institute**: Royal Sluis Inc.. **cultivar**: PARRIS ISLAND COS 318. **other id**: PVP 8900032. **source**: Application abandoned. **group**: PVPO. **other id**: NSL 239086. Annual. Cultivar. Seed.

PI 543973. Zea mays L. subsp. mays POACEAE Corn

**Donated by**: Cuany, R.L., Colorado State University, Fort Collins, Colorado, United States. Received October 1990.

**origin**: UNKNOWN. **remarks**: May be 900 years old. Annual. Cultivated. Seed.
PI 543974 to 544063. Carthamus tinctorius L. ASTERACEAE Safflower

**Donated by:** Li, D., Beijing Botanical Garden, Institute of Botany, Chinese Academy of Sciences, Xiangshan, Beijing, China. **Remarks:**

Received through P.F. Knowles, 5703 Nakat Way, Blaine, WA 98230. Received January 30, 1989.

**PI 543974**

**Origin:** China. **Local name:** Honghua. **Collected:** October 1980. **Collector id:** BJ-142. **Other id:** W6 119. **Group:** W6. **Locality:** Hetian County, Xinjiang Province. **Remarks:** Growing period 117 days. Plants 98.1cm tall, very spiny. Branching angle 35 degrees. Head diameter-2.11cm. Flowers orange. 100 seed weight-6.53g. Oil content-30.07%. Annual. Cultivated. Seed.

**PI 543975**

**Origin:** China. **Local name:** Honghua. **Collected:** February 1981. **Collector id:** BJ-180. **Other id:** W6 120. **Group:** W6. **Locality:** Nanxi County, Sichuan Province. **Remarks:** Growing period 92 days. Plants 68cm tall, spiny. Branching angle 34 degrees. Head diameter-2.54cm. Flowers red. 100 seed weight-4.25g. Oil content-22.51%. Linoleic acid-74.6%. Oleic acid-18%. Stearic acid-1.0%. Palmitic acid-6.3%. Annual. Cultivated. Seed.

**PI 543976**

**Origin:** China. **Local name:** Honghua. **Collected:** February 1981. **Collector id:** BJ-182. **Other id:** W6 121. **Group:** W6. **Locality:** Heze County, Shandong Province. **Remarks:** Growing period 104 days. Plants 65.4cm tall. Head diameter-2.08cm. Flowers orange. 100 seed weight-5.4g. Oil content-24.53%. Annual. Cultivated. Seed.

**PI 543977**

**Origin:** China. **Local name:** Honghua. **Collected:** February 1981. **Collector id:** BJ-183. **Other id:** W6 122. **Group:** W6. **Locality:** Zhecheng County, Henan Province. **Remarks:** Growing period 102 days. Plants 78.9cm tall, spineless. Branching angle 51 degrees. Head diameter-2.06cm. Flowers orange. 100 seed weight-5.1g. Oil content-24.85%. Linoleic acid-75.5%. Oleic acid 15.8%. Stearic acid-2.5%. Palmitic acid-6.1%. Annual. Cultivated. Seed.

**PI 543978**

**Origin:** China. **Local name:** Honghua. **Collected:** February 1981. **Collector id:** BJ-194. **Other id:** W6 124. **Group:** W6. **Locality:** Yingshan County, Sichuan Province. **Remarks:** 100 seed weight 2.78g. Annual. Cultivated. Seed.

**PI 543979**

**Origin:** China. **Local name:** Honghua. **Collected:** February 1981. **Collector id:** BJ-200. **Other id:** W6 125. **Group:** W6. **Locality:** Tongliao City, Inner Mongolia. **Remarks:** Growing period 103 days. Plants 87.5cm tall, spineless. Branching angle 40 degrees. Head diameter-2.32cm. Flowers orange. 100 seed weight-4.56g. Annual. Cultivated. Seed.
PI 543980  origin: China.  local name: Honghua.  collected: February 1981.  collector id: BJ-201.  other id: W6 126.  group: W6.  locality: Qiubei County, Yunnan Province.  remarks: Growing period 98 days. Plants 75.6cm tall, spiny. Branching angle 56.6 degrees. Head diameter-2.22cm. Flowers red. 100 seed weight-4.1g. Oil content-22.61%. Linoleic acid-74.7%. Oleic acid-16.5%. Stearic acid-2.7%. Palmitic acid-5.6%. Annual. Cultivated. Seed.


PI 543986  origin: China.  local name: Honghua.  collector id: BJ-227.  other id: W6 208.  group: W6.  locality: Danxian County, Shandong Province.  remarks: Growing period 104 days.  Plants 78cm tall.  Branching angle 50 degrees.  Head diameter-2.06cm.  Flowers red.  100 seed weight-4.8g.  Oil content-23.82%.  Linoleic acid-64.4%.  Oleic acid-22.0%.  Stearic acid-3.0%.  Palmitic acid-7.3%.  Annual.  Cultivated.  Seed.


PI 543992  
**origin:** China.  
**local name:** Honghua.  
**collected:** September 1981.  
**collector id:** BJ-238.  
**other id:** W6 214.  
**group:** W6.  
**locality:** Juye County, Shandong Province.  
**remarks:** Growing period 105 days. Plants 68.7cm tall. Branching angle 50 degrees. Head diameter 2cm. 100 seed weight-4.7g. Oil content-24.39%. Annual. Cultivated. Seed.

PI 543993  
**origin:** China.  
**local name:** Honghua.  
**collected:** September 1981.  
**collector id:** BJ-239.  
**other id:** W6 215.  
**group:** W6.  
**locality:** Lingquan County, Anhui Province.  
**remarks:** Growing period 101 days. Plants 81cm tall. Branching angle 48 degrees. Head diameter 2.08cm. 100 seed weight-4.2g. Oil content-21.07%. Linoleic acid-79.2%. Oleic acid-11.7%. Stearic acid-1.5%. Palmitic acid-6.8%. Annual. Cultivated. Seed.

PI 543994  
**origin:** China.  
**local name:** Honghua.  
**collected:** September 1981.  
**collector id:** BJ-240.  
**other id:** W6 216.  
**group:** W6.  
**locality:** Caoxian County, Shandong Province.  
**remarks:** Growing period 100 days. Plants 74.3cm tall. Branching angle 47 degrees. Head diameter-2.04cm. 100 seed weight- 5.5g. Oil content-24.66%. Annual. Cultivated. Seed.

PI 543995  
**origin:** China.  
**local name:** Honghua.  
**collected:** February 1981.  
**collector id:** BJ-242.  
**other id:** W6 217.  
**group:** W6.  
**locality:** Jingxian County, Hebei Province.  
**remarks:** Growing period 105 days. Plants spineless. Flowers red. 100 seed weight-4.83g. Oil content-22.66%. Annual. Cultivated. Seed.

PI 543996  
**origin:** China.  
**local name:** Honghua.  
**collected:** February 1981.  
**collector id:** BJ-243.  
**other id:** W6 218.  
**group:** W6.  
**locality:** Weishan County, Shandong Province.  
**remarks:** Growing period 103 days. Plants 70.8cm tall. Branching angle 52 degrees. Head diameter-2.17cm. Flowers red. 100 seed weight 5.5g. Oil content-22.50%. Annual. Cultivated. Seed.

PI 543997  
**origin:** China.  
**local name:** Honghua.  
**collected:** February 1981.  
**collector id:** BJ-244.  
**other id:** W6 219.  
**group:** W6.  
**locality:** Daming County, Hebei Province.  
**remarks:** Plants 83.1cm tall, spineless. Branching angle 51 degrees. Head diameter-2.15cm. Flowers red. 100 seed weight-5.3g. Oil content-24.24%. Annual. Cultivated. Seed.


PI 544005  
**origin:** China.  **local name:** Honghua.  **collected:** October 1981.  **collector id:** BJ-317.  **other id:** W6 228.  **group:** W6.  **locality:** Xiuixian County, Anhui Province.  **remarks:** Growing period 103 days. Plants 93.7cm tall, spiny. Branching angle 47 degrees. Head diameter-2.05cm. Flowers orange. 100 seed weight-4.8g. Oil content-21.77%. Annual. Cultivated. Seed.

PI 544006  
**origin:** China.  **local name:** Honghua.  **collected:** January 1982.  **collector id:** BJ-318.  **other id:** W6 229.  **group:** W6.  **locality:** Runan County.  **remarks:** Growing period 101 days. Plants 72.4cm tall, spineless. Branching angle 48 degrees. Head diameter-2.03cm. Flowers orange. 100 seed weight-4.0g. Oil content-26.69%. Linoleic acid-75.7%. Oleic acid-14.8%. Stearic acid-1.7%. Palmitic acid-7.5%. Annual. Cultivated. Seed.

PI 544007  
**origin:** China.  **local name:** Honghua.  **collected:** January 1982.  **collector id:** BJ-320.  **other id:** W6 230.  **group:** W6.  **locality:** Taichan County.  **remarks:** Growing period 100 days. Plants 69.7cm tall, spiny. Branching angle 55 degrees. Head diameter-2.24cm. Flowers orange. 100 seed weight-4.8g. Oil content-19.87%. Linoleic acid-79.2%. Oleic acid-12.1%. Stearic acid-1.9%. Palmitic acid-6.5%. Annual. Cultivated. Seed.

PI 544008  
**origin:** China.  **local name:** Honghua.  **collected:** January 1982.  **collector id:** BJ-321.  **other id:** W6 231.  **group:** W6.  **locality:** Lingshan County, Shandong Province.  **remarks:** Growing period 109 days. Plants 65.7cm tall. Branching angle 46 degrees. Head diameter-2.24cm. Flowers orange. 100 seed weight-5.8g. Oil content-23.46%. Linoleic acid-77.8%. Oleic acid-13.4%. Stearic acid-2.4%. Palmitic acid-6.2%. Annual. Cultivated. Seed.

PI 544009  
**origin:** China.  **local name:** Honghua.  **collected:** January 1982.  **collector id:** BJ-323.  **other id:** W6 232.  **group:** W6.  **locality:** Donghai County, Jiangsu Province.  **remarks:** Growing period 103 days. Plants 92.3cm tall, spineless. Branching angle 50 degrees. Head diameter-2.22cm. Flowers red. 100 seed weight-5.0g. Oil content-19.9%. Linoleic acid-75.6%. Oleic acid-14.4%. Stearic acid-2.1%. Palmitic acid-7.0%. Annual. Cultivated. Seed.

369
PI 544010  

PI 544011  

PI 544012  
origin: China. local name: Honghua. collected: January 1982. collector id: BJ-327. other id: W6 236. group: W6. locality: Guangde County, Anhui Province. remarks: Growing period 95 days. Plants 72.3cm tall, spiny. Branching angle 53 degrees. Head diameter-2.5cm. Flowers orange. 100 seed weight-5.1g. Oil content-23.32%. Linoleic acid-80.8%. Oleic acid-17.1%. Stearic acid-1.8%. Palmitic acid-0.3%. Annual. Cultivated. Seed.

PI 544013  

PI 544014  

PI 544015  


PI 544024  
**origin:** China.  
**local name:** Honghua.  
**collected:** January 1982.  
**collector id:** BJ-337.  
**other id:** W6 251.  
**group:** W6.  
**locality:** Shucheng County, Anhui Province.  
**remarks:** Growing period 96 days. Plants 70.3cm tall, spiny. Branching angle 52 degrees. Head diameter 2.29cm. Flowers orange. 100 seed weight-4.3g. Oil content-22.17%. Linoleic acid-80.4%. Oleic acid-11.3%. Stearic acid-1.9%. Palmitic acid-6.3%. Annual. Cultivated. Seed.

PI 544025  
**origin:** China.  
**local name:** Honghua.  
**collected:** January 1982.  
**collector id:** BJ-338.  
**other id:** W6 252.  
**group:** W6.  
**locality:** Huaiyuan County, Anhui Province.  
**remarks:** Plants 88.7cm tall, spiny. Branching angle 50 degrees. Head diameter-2.27cm. Flowers orange. 100 seed weight-5.0g. Oil content-21.21%. Linoleic acid-75.4%. Oleic acid-15.4%. Stearic acid-2.0%. Palmitic acid-6.5%. Annual. Cultivated. Seed.

PI 544026  
**origin:** China.  
**local name:** Honghua.  
**collected:** January 1982.  
**collector id:** BJ-341.  
**other id:** W6 253.  
**group:** W6.  
**locality:** Xianxian County, Hebei Province.  
**remarks:** Growing period 104 days. Plants 87.5cm tall, spineless. Branching angle 45 degrees. Head diameter-1.92cm. Flowers red. 100 seed weight-4.87g. Oil content-24.74%. Linoleic acid-74.8%. Oleic acid-14.5%. Stearic acid-3.0%. Palmitic acid-7.6%. Annual. Cultivated. Seed.

PI 544027  
**origin:** China.  
**local name:** Honghua.  
**collected:** January 1982.  
**collector id:** BJ-342.  
**other id:** W6 254.  
**group:** W6.  
**locality:** Xingtang County, Hebei Province.  
**remarks:** Growing period 89 days. Plants 91.7cm tall, spineless. Branching angle 57 degrees. Head diameter-2.28cm. Flowers red. 100 seed weight-4.37g. Oil content-23.58%. Linoleic acid-75.5%. Oleic acid-15.0%. Stearic acid-1.7%. Palmitic acid-7.5%. Annual. Cultivated. Seed.

PI 544028  
**origin:** China.  
**local name:** Honghua.  
**collected:** January 1982.  
**collector id:** BJ-344.  
**other id:** W6 255.  
**group:** W6.  
**locality:** Yuhuan County, Zhejiang Province.  
**remarks:** Growing period 97 days. Plants 63.8cm tall, spiny. Branching angle 52 degrees. Head diameter-2.52cm. Flowers orange. 100 seed weight-5.0g. Oil content-21.82%. Annual. Cultivated. Seed.


PI 544031  origin: China. local name: Honghua. collected: January 1982. collector id: BJ-350. other id: W6 258. group: W6. locality: Anji County, Zhejiang Province. remarks: Growing period 95 days. Plants 63.5cm tall, spiny. Branching angle 42 degrees. Head diameter-2.27cm. Flowers red. 100 seed weight-4.2g. Oil content-22.60%. Linoleic acid-80.5%. Oleic acid-11.4%. Stearic acid-2.2%. Palmitic acid-6.0%. Annual. Cultivated. Seed.


PI 544043  origin: China.  local name: Honghua.  collected: June 1983.  collector id: BJ-444.  other id: W6 270.  group: W6.  locality: Taixing County, Jiangsu Province.  remarks: Growing period 83 days.  Plants 60.6cm tall, spiny.  Branching angle 44 degrees.  Head diameter-1.96cm.  Flowers orange.  100 seed weight-3.75g.  Oil content-21.57%.  Linoleic acid-83.5%.  Oleic acid-9.2%.  Stearic acid-1.9%.  Palmitic acid-5.2%.  Annual.  Cultivated.  Seed.


PI 544047  origin: China.  local name: Honghua.  collected: May 1983.  collector id: BJ-495.  other id: W6 274.  group: W6.  locality: Jiangyin County, Jiangsu Province.  remarks: Growing period 82 days.  Plants 77.4cm tall, very spiny.  Branching angle 43 degrees.  Head diameter-2.11cm.  Flowers orange.  100 seed weight-3.33g.  Oil content-18.71%.  Linoleic acid-80.3%.  Oleic acid-12.0%.  Stearic acid-1.8%.  Palmitic acid-5.2%.  Annual.  Cultivated.  Seed.


PI 544055  
origin: China.  
origin institute: Inst. of Industrial Crops, Urumqi, Xinjiang, Autonomous Region, PRC.  
collector id: C-4.  
other id: XJ-12.  
other id: W6 282.  
group: W6.  
remarks: Donated by Dr. Wang Zhao-Mu.  
Flowers used for flower colors and medicinal purposes.  
Annual.  
Cultivated.  
Seed.

PI 544056  
origin: China.  
origin institute: Inst. of Industrial Crops, Urumqi, Xinjiang, Autonomous Region, PRC.  
collector id: C-5.  
other id: XJ-26.  
other id: W6 283.  
group: W6.  
remarks: Donated by Dr. Wang Zhao-Mu.  
Flowers used for flower colors and medicinal purposes.  
Annual.  
Cultivated.  
Seed.

PI 544057  
origin: China.  
origin institute: Inst. of Industrial Crops, Urumqi, Xinjiang, Autonomous Region, PRC.  
collector id: C-6.  
other id: XJ-59.  
other id: W6 284.  
group: W6.  
remarks: Donated by Dr. Wang Zhao-Mu.  
Flowers used for flower colors and medicinal purposes.  
Annual.  
Cultivated.  
Seed.

PI 544058  
origin: China.  
origin institute: Inst. of Industrial Crops, Urumqi, Xinjiang, Autonomous Region, PRC.  
collector id: C-7.  
other id: XJ-68.  
other id: W6 285.  
group: W6.  
remarks: Donated by Dr. Wang Zhao-Mu.  
Flowers used for flower colors and medicinal purposes.  
Annual.  
Cultivated.  
Seed.

PI 544059  
origin: China.  
origin institute: Inst. of Industrial Crops, Urumqi, Xinjiang, Autonomous Region, PRC.  
collector id: C-8.  
other id: XJ-80.  
other id: W6 286.  
group: W6.  
remarks: Donated by Dr. Wang Zhao-Mu.  
Flowers used for flower colors and medicinal purposes.  
Annual.  
Cultivated.  
Seed.

PI 544060  
origin: China.  
origin institute: Inst. of Industrial Crops, Urumqi, Xinjiang, Autonomous Region, PRC.  
collector id: C-9.  
other id: XJ-81.  
other id: W6 287.  
group: W6.  
remarks: Donated by Dr. Wang Zhao-Mu.  
Flowers used for flower colors and medicinal purposes.  
Annual.  
Cultivated.  
Seed.

PI 544061  
origin: China.  
collector id: C-10.  
other id: W6 288.  
group: W6.  
locality: Red Flag farm, 30km N of Jimusaer, NE of Urumqi, Xinjiang Autonomous Region.  
remarks: Plants spineless.  
Flowers red or orange.  
Used for extraction of yellow and red pigments.  
Annual.  
Cultivated.  
Seed.
PI 544064. Festuca arundinacea Schreber POACEAE Tall fescue

Donated by: Hubbard Seed and Supply, United States. Received October 15, 1990.


PI 544065. Zea mays L. subsp. mays POACEAE Corn

Donated by: Northrup King Co., United States. Received October 15, 1990.

origin: United States. cultivar: BCC03. other id: PVP 9100002. source: Pending. group: PVPO. Cultivar. Seed.

PI 544066. Lactuca sativa L. ASTERACEAE Lettuce

Donated by: Rijk Zwaan Zaadteelt en Zaadhandel B.V., United States. Received October 15, 1990.


PI 544067. Cichorium endivia L. ASTERACEAE Endive

Donated by: Rijk Zwaan Zaadteelt en Zaadhandel B.V., United States. Received October 15, 1990.
PI 544067-continued


PI 544068. Medicago sativa L. FABACEAE Alfalfa

Donated by: Thaddeus H. Busbice, United States. Received October 15, 1990.


PI 544069. Sorghum bicolor (L.) Moench POACEAE Sorghum


PI 544070. Vigna unguiculata (L.) Walp. FABACEAE Cowpea


PI 544071 to 544072. Phaseolus vulgaris L. FABACEAE Garden bean

Donated by: Ferry-Morse Seed Co., United States. Received October 15, 1990.


Donated by: Lubrizol dba Agrigenetics, United States. Received October 15, 1990.


Donated by: Hayes, P.M., Oregon Agric. Exp. Station, Corvallis, Oregon, United States. Received September 26, 1990.


Donated by: Kolding, M.F., Oregon Agric. Exp. Station, Pendleton, Oregon, United States. Received September 26, 1990.


PI 544079 to 544345. Aeschynomene americana L. FABACEAE Joint-vetch

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

**PI 544079**
- **donor id:** 3197.
- **origin:** Brazil.
- **collected:** November 20, 1978.
- **other id:** CIAT 9694.
- **locality:** Para State. Wild.
- **Seed.**

**PI 544080**
- **donor id:** 5202.
- **origin:** Mexico.
- **collected:** September 12, 1980.
- **other id:** CPI 91155.
- **other id:** MEX 993.
- **locality:** 36.8km W of Teloloapan on road to Ciudad Altimirano, Guerrero State.
- **latitude:** 18 deg. 00 min. N.
- **elevation:** 1100m.
- **remarks:** Flowers pink. Annual rainfall 1000mm. Wild. Seed.

**PI 544081**
- **donor id:** 5203.
- **origin:** Mexico.
- **collected:** September 12, 1980.
- **other id:** CPI 91158.
- **other id:** MEX 993.
- **locality:** 43km W of Teloloapan on road to Ciudad Altimirano, Guerrero State.
- **latitude:** 18 deg. 00 min. N.
- **elevation:** 800m.
- **remarks:** Annual rainfall 900mm. Wild. Seed.

**PI 544082**
- **donor id:** 470.
- **origin:** UNKNOWN.
- **collected:** May 13, 1961.
- **other id:** CPI 93552.
- **Wild. Seed.**

**PI 544083**
- **donor id:** 519.
- **origin:** United States.
- **collected:** September 19, 1962.
- **locality:** Florida State. Wild.
- **Seed.**

**PI 544084**
- **donor id:** 1010.
- **origin:** United States.
- **locality:** E. Hodges Range Cattle Station, 1966, Ona, Florida.
- **Wild. Seed.**

**PI 544085**
- **donor id:** 1197.
- **origin:** Costa Rica.
- **collected:** March 06, 1970.
- **collector id:** 43S.
- **locality:** Finca El Muelle, San Carlos, Cuidad Quesada, Alajuela State.
- **latitude:** 11 deg. 29 min. N.
- **longitude:** 84 deg. 28 min. W.
- **elevation:** 200m.
- **remarks:** Annual rainfall 1804. Wild. Seed.

**PI 544086**
- **donor id:** 1710.
- **origin:** Brazil.
- **collected:** January 23, 1974.
- **locality:** Sao Paulo State.
- **remarks:** Plants tall. Perennial.
- **Wild. Seed.**

**PI 544087**
- **donor id:** 1725.
- **origin:** Belize.
- **collected:** March 16, 1974.
- **other id:** CPI 93554.
- **locality:** Southern border of Beaver Creek.
- **Wild. Seed.**

**PI 544088**
- **donor id:** 1726.
- **origin:** Honduras.
- **collected:** March 14, 1974.
- **other id:** CPI 93555.
- **locality:** Midence Finca, Trujillo.
- **Wild. Seed.**


donor id: 2190. origin: Mexico. collected: June 22, 1977. other id: CF-450. locality: Dry area, along 3m raised road bed, Campeche road by 98km Stone, Muna, Yucatan State. latitude: 20 deg. 05 min. S. elevation: 100m. remarks: Annual rainfall 1050mm. Wild. Seed.


382
<table>
<thead>
<tr>
<th>Donor ID</th>
<th>Origin</th>
<th>Collected</th>
<th>Other ID</th>
<th>Locality</th>
</tr>
</thead>
<tbody>
<tr>
<td>2808</td>
<td>Panama</td>
<td>May 1978</td>
<td>CIAT 7009</td>
<td>Los Santos State. Wild. Seed.</td>
</tr>
<tr>
<td>2812</td>
<td>Panama</td>
<td>May 1978</td>
<td>CPI 93571</td>
<td>Los Santos State. Wild. Seed.</td>
</tr>
<tr>
<td>2817</td>
<td>Panama</td>
<td>May 1978</td>
<td>CIAT 7019</td>
<td>Chiriqui State. Wild. Seed.</td>
</tr>
<tr>
<td>2821</td>
<td>Panama</td>
<td>May 1978</td>
<td>CIAT 7024</td>
<td>Chiriqui State. Wild. Seed.</td>
</tr>
</tbody>
</table>
PI 544112  donor id: 2823.  origin: Panama.  collected: May 1978.  
other id: CPI 93574.  other id: CIAT 7026.  locality:  
Chiriqui State.  Wild.  Seed.  
PI 544113  donor id: 2825.  origin: Panama.  collected: May 1978.  
other id: CIAT 7028.  locality: Chiriqui State.  Wild.  Seed.  
other id: CPI 93575.  other id: CIAT 7247.  locality:  
Miranda State.  Wild.  Seed.  
other id: CPI 93576.  other id: CIAT 7248.  locality:  
Aragua State.  Wild.  Seed.  
other id: CIAT 7251.  locality: Guarico State.  Wild.  Seed.  
other id: CPI 93977.  other id: CIAT 7252.  locality:  
Guarico State.  Wild.  Seed.  
other id: CIAT 7257.  locality: Guarico State.  Wild.  Seed.  
other id: CPI 93578.  other id: CIAT 7258.  locality:  
Guarico State.  Wild.  Seed.  
other id: CIAT 7270.  locality: Monagas State.  Wild.  Seed.  
other id: CIAT 7277.  locality: Anzoategui State.  Wild.  Seed.  
other id: CIAT 7278.  locality: Miranda State.  Wild.  Seed.  
other id: CIAT 7280.  other id: CPI 85843.  other id:  
other id: CIAT 7281.  locality: Guarico State.  Wild.  Seed.
PI 544125  
donor id: 2851.  
origin: Venezuela.  
collected: May 1978.  
other id: CIAT 7282.  
locality: Guarico State.  Wild.  
Seed.

PI 544126  
donor id: 2855.  
origin: Colombia.  
collected: May 1978.  
other id: CIAT 9250.  

PI 544127  
donor id: 2857.  
origin: Colombia.  
collected: May 1978.  
other id: CPI 93632.  
other id: CIAT 9256.  

PI 544128  
donor id: 2858.  
origin: Colombia.  
collected: May 1978.  
other id: CIAT 9291.  

PI 544129  
donor id: 2861.  
origin: Colombia.  
collected: May 1978.  
other id: CIAT 9557.  
locality: Cauca State.  Wild.  Seed.

PI 544130  
donor id: 2864.  
origin: Colombia.  
collected: May 1978.  
other id: CIAT 9565.  
locality: Valle Del Cauca, Cauca State.  Wild.  Seed.

PI 544131  
donor id: 2868.  
origin: Colombia.  
collected: May 1978.  
other id: CIAT 9569.  
locality: Valle Del Cauca, Cauca State.  Wild.  Seed.

PI 544132  
donor id: 2875.  
origin: Colombia.  
collected: May 1978.  
other id: CIAT 9670.  
locality: Sucre, Bolivar State.  Wild.  Seed.

PI 544133  
donor id: 2897.  
origin: Colombia.  
collected: May 1978.  
other id: CIAT 9873.  

PI 544134  
donor id: 2900.  
origin: Colombia.  
collected: May 1978.  
other id: CIAT 9876.  

PI 544135  
donor id: 2901.  
origin: Colombia.  
collected: May 1978.  
other id: CIAT 9877.  

PI 544136  
donor id: 2904.  
origin: Colombia.  
collected: May 1978.  
other id: CPI 93580.  
other id: CIAT 7880.  
locality: Choco State.  Wild.  Seed.

PI 544137  
donor id: 2905.  
origin: Colombia.  
collected: May 1978.  
other id: CPI 93581.  
other id: CIAT 9881.  
locality: Choco State.  Wild.  Seed.
PI 544079 to 544345-continued


386
PI 544079 to 544345-continued


PI 544079 to 544345-continued


PI 5444216

PI 5444217

PI 5444218

PI 5444219

PI 5444220

PI 5444221


PI 544260 donor id: 5137. origin: Mexico. collected: November 12, 1980. other id: MEX 796. locality: 11km NW of Tequila, on road to Tepic, Tequila, Jalisco State. latitude: 21 deg. 00 min. N. elevation: 1300m. remarks: Annual rainfall 1040mm. Wild. Seed.

PI 544261 donor id: 5186. origin: Mexico. collected: September 08, 1980. other id: MEX 930. locality: 3km W of Escuenapa, Sinaloa State. latitude: 23 deg. 00 min. N. elevation: 10m. remarks: Annual rainfall 1000mm. Wild. Seed.


PI 544278  donor id: 6363.  origin: Costa Rica.  collected: February 15, 1988.  collector id: 15/5.  locality: 0.9km W of La Cruz road to Manzanilla, La Cruz, Guanacaste State.  latitude: 11 deg. 40 min. N.  longitude: 85 deg. 73 min. W.  elevation: 250m.  remarks: Plants dead. Plants 1.5m tall.  Wild.  Seed.


PI 544289  

PI 544290  

PI 544291  

PI 544292  

PI 544293  

PI 544294  

PI 544295  
PI 544079 to 544345-continued

PI 544296  
**donor id:** 6468.  
**origin:** Costa Rica.  
**collected:** February 24, 1988.  
**collector id:** 24/7C.  
**locality:** 8km E of Neily road to San Vito, Puntarenas State.  
**latitude:**  8 deg. 41 min. N.  
**longitude:**  82 deg. 57 min. W.  
**elevation:**  600m.  
**remarks:** Associated species: Centrosema and mucuna sp.  
Wild.  
Seed.

PI 544297  
**donor id:** 6469.  
**origin:** Costa Rica.  
**collected:** February 24, 1988.  
**collector id:** 24/8A.  
**locality:** 12.3km E of Neily road to San Vito, Neily, Puntarenas State.  
**latitude:**  8 deg. 42 min. N.  
**longitude:**  82 deg. 56 min. W.  
**elevation:**  975m.  
**remarks:** Associated species: African stargrass, Teramnus uncinatus.  
Wild.  
Seed.

PI 544298  
**donor id:** 6472.  
**origin:** Costa Rica.  
**collected:** February 24, 1988.  
**collector id:** 24/10A.  
**locality:** 5.1km from San Vito New Airport road to La Union, San Vito, Puntarenas State.  
**latitude:**  8 deg. 49 min. N.  
**longitude:**  82 deg. 55 min. W.  
**elevation:**  1050m.  
**remarks:** Associated species: Teramnus uncinatus.  
Plants almost dead.  
Insect damage.  
Wild.  
Seed.

PI 544299  
**donor id:** 6475.  
**origin:** Costa Rica.  
**collected:** February 25, 1988.  
**collector id:** 25/1B.  
**locality:** 9.8km W of San Vito road to Buenos Aires, San Vito, Puntarenas State.  
**latitude:**  8 deg. 51 min. N.  
**longitude:**  83 deg. 02 min. W.  
**elevation:**  900m.  
**remarks:** Leaves small, green.  
Possible leaf virus.  
Associate species: Calopo, D. adscendens, Stylosanthes guianensis, Teranmus uncinatus.  
Wild.  
Seed.

PI 544300  
**donor id:** 6492.  
**origin:** Costa Rica.  
**collected:** February 25, 1988.  
**collector id:** 25/7B.  
**locality:** Road marker KM119, 16km N of San Isidro, San Jose State.  
**latitude:**  9 deg. 31 min. N.  
**longitude:**  83 deg. 43 min. W.  
**elevation:**  1550m.  
**remarks:** Associated species: Desmodium intortum.  
Wild.  
Seed.

PI 544301  
**donor id:** 6502.  
**origin:** Costa Rica.  
**collected:** November 08, 1988.  
**collector id:** 8-1MLC.  
**locality:** 15km from Puerto Carrillo to Hojancha, Guanacaste State.  
**latitude:**  9 deg. 58 min. N.  
**longitude:**  85 deg. 27 min. W.  
**elevation:**  400m.  
**remarks:** Rainfall 1978mm.  
Wild.  
Seed.

PI 544302  
**donor id:** 6504.  
**origin:** Costa Rica.  
**collected:** January 29, 1989.  
**collector id:** 29/1B.  
**locality:** Area around Hotel Bougainvillea, San Jose, San Jose State.  
**latitude:**  9 deg. 57 min. N.  
**longitude:**  84 deg. 05 min. W.  
**elevation:**  1175m.  
**remarks:** Annual rainfall 1987mm.  
Wild.  
Seed.

PI 544305 donor id: 6511. origin: Costa Rica. collected: January 31, 1989. collector id: 31/2B. other id: 74014. locality: 20.0km S of intersection of Ruta 1 on Ruta 18, Tempisque Ferry, Guanacaste State. latitude: 10 deg. 14 min. N. longitude: 85 deg. 09 min. W. elevation: 75m. remarks: Annual rainfall 1775mm. Plant height 2.5m. Wild. Seed.


PI 544309  
**donor id:** 6538.  
**origin:** Costa Rica.  
**collected:** February 01, 1989.  
**collector id:** 01/11.  
**other id:** CIAT 72124.  
**S.F.CO.**  
**locality:** 7.3km N of Juan de Leon, Tigra, Puntarenas State.  
**latitude:** 9 deg. 56 min. N.  
**longitude:** 85 deg. 11 min. W.  
**elevation:** 75m.  
**remarks:** Annual rainfall 1526mm. Population scarce.  
Wild. Seed.

PI 544310  
**donor id:** 6542.  
**origin:** Costa Rica.  
**collected:** February 01, 1989.  
**collector id:** 01/12C.  
**locality:** 3.2km E of Hotel De Paso, Bajo Negro, Puntarenas State.  
**latitude:** 9 deg. 56 min. N.  
**longitude:** 85 deg. 00 min. W.  
**elevation:** 75m.  
**remarks:** Annual rainfall 2072mm. 3-4 articulations.  
Wild. Seed.

PI 544311  
**donor id:** 6549.  
**origin:** Costa Rica.  
**collected:** February 02, 1989.  
**collector id:** 02/4.  
**locality:** 9.0km W of Jicaral, Puntarenas State.  
**latitude:** 9 deg. 59 min. N.  
**longitude:** 85 deg. 11 min. W.  
**elevation:** 50m.  
**remarks:** Annual rainfall 2072mm.  
Wild. Seed.

PI 544312  
**donor id:** 6552.  
**origin:** Costa Rica.  
**collected:** February 02, 1989.  
**collector id:** 02/6B.  
**other id:** 74003-Santa Cruz.  
**locality:** 7.1km S from Santa Cruz road to Arado, 10km from Legarto, Santa Cruz, Guanacaste State.  
**latitude:** 10 deg. 13 min. N.  
**longitude:** 85 deg. 36 min. W.  
**elevation:** 250m.  
**remarks:** Annual rainfall 1862mm.  
Associated species: Calopogonium caerulium, Tropical kudzu. 3-4 articulations.  
Wild. Seed.

PI 544313  
**donor id:** 6557.  
**origin:** Costa Rica.  
**collected:** February 02, 1989.  
**collector id:** 02/8A.  
**other id:** 72118-Florida.  
**locality:** 4.8km from Cerro Vista Almar to Los Angeles, Cerro Vista Al Mar, Guanacaste State.  
**latitude:** 10 deg. 07 min. N.  
**longitude:** 85 deg. 36 min. W.  
**elevation:** 825m.  
**remarks:** Annual rainfall 1866mm.  
Wild. Seed.

PI 544314  
**donor id:** 6561.  
**origin:** Costa Rica.  
**collected:** February 02, 1989.  
**collector id:** 02/11.  
**other id:** 74017-Talolinga.  
**locality:** Polvazal, 4.5km N of Santa Barbara on road to Talolinga, Santa Barbara, Guanacaste State.  
**latitude:** 10 deg. 18 min. N.  
**longitude:** 85 deg. 31 min. W.  
**elevation:** 175m.  
**remarks:** Annual rainfall 1782mm.  
Wild. Seed.
PI 544315


PI 544316

donor id: 6583. origin: Costa Rica. collected: February 06, 1989. collector id: 06/8D. other id: 78003-Puntarenas. locality: 3.5km S intersection of Ruta 1 at Chomes entrance, road to Punta Morales, road to Costa Pajaros to W, San Geredo, Puntarenas State. latitude: 10 deg. 06 min. N. longitude: 84 deg. 55 min. W. elevation: 100m. remarks: Annual rainfall 1598mm. 5-6 articulations. Wild. Seed.

PI 544317

donor id: 2872. origin: Brazil. collected: May 1978. other id: CPI 93579. other id: CIAT 9666. received as: A. americana var. americana. Wild. Seed.

PI 544318


PI 544319


PI 544320


PI 544321

donor id: 4429. origin: Mexico. collected: March 05, 1985. collector id: 071D. locality: 5.6km E of Rizo de Oro or 1.6km E of Las Perlas Hwy 190, Chintalapa, Chiapas State. latitude: 16 deg. 29 min. N. longitude: 94 deg. 02 min. W. elevation: 825m. remarks: Annual rainfall 1773mm. Identified by V.E. Rudd. Associated species: M. atropurpureum, Desmodium sp., S. guianensis, Leucaena macrophylla. Wild. Seed.

donor id: 4436. origin: Mexico. collected: March 05, 1985. collector id: 072G. locality: Pine forest, granite rock, grazed area. 0.4km up road to La Mina Microwave Tower which intersection is 3km E of Las Perlas, Hwy 190, Las Perlas, Chiapas State. latitude: 16 deg. 28 min. N. longitude: 94 deg. 01 min. W. elevation: 775m. remarks: Annual rainfall 1773mm. Identified by V.E. Rudd. Associated species: S. guianensis, S. humilis, Aeschynomone sp. D. barbatum. Wild. Seed.


PI 544327 donor id: 4555. origin: Mexico. collected: March 12, 1985. collector id: 110B. locality: 3km S of Int. of road to Rio Chancala, 9km S of Palenque, then W about 1.0km on narrow dirt road before going down steep slope, Palenque, Chiapas State. latitude: 17 deg. 26 min. N. longitude: 92 deg. 00 min. W. elevation: 250m. remarks: Annual rainfall 2032mm. Identified by V.E. Rudd. Plant stems with long hairs. Plants 2m tall. Associated species: A. americana. Wild. Seed.


PI 544338 donor id: 3590. origin: Mexico. collected: October 24, 1979. collector id: 053. other id: CPI 84956. other id: MEX 053. locality: 52km on road from Cuernavaca to Iguala, Guerrero State. latitude: 19 deg. 00 min. N. elevation: 1050m. remarks: Identified by V.E. Rudd. Soil pH 7.2. Rainfall 950mm. received as: A. americana var. fabellata. Wild. Seed.


PI 544343 donor id: 5200. origin: Mexico. collected: September 12, 1980. other id: MEX 983. locality: Clay loam, 27.2km W of Teloloapan on road to Ciudad Altimitano, Teloloapan, Guerrero State. latitude: 18 deg. 00 min. N. elevation: 1450m. remarks: Annual rainfall 1000mm. Identified by V.E. Rudd. received as: A americana var. fabellata. Wild. Seed.

PI 544345  donor id: 5215.  origin: Mexico.  collected: September 12, 1980.  other id: MEX 1078.  locality: 4km NE of Tejupilco on road to Temascaltepec, Tejupilco, Mexico State.  latitude: 19 deg. 00 min. N.  elevation: 1450m.  remarks: Annual rainfall 1700mm. Identified by V.E. Rudd.  received as: A. americana var. flabellata.  Wild.  Seed.

PI 544346.  Arachis hypogaea L.  FABACEAE  Peanut

Donated by: Mixon, A.C., Agricultural Research Service -- USDA, Univ. of Georgia Coastal Plain Exp. Sta., Tifton, Georgia, United States; and Alabama Agr. Exp. Sta..  remarks: Aspergillus Flavus Resistant Peanut Germplasm.  Received November 04, 1974.


PI 544347.  Avena sativa L.  POACEAE  Common oat


PI 544348 to 544352. Arachis hypogaea L. FABACEAE Peanut

Donated by: Dwivedi, S.L., ICRISAT, Legumes Program, Patancheru, Andhra Pradesh, India. remarks: Nonnodulating Peanut Lines (ICGL1, ICGL2, ICGL3, ICGL4, ICGL5). Received October 15, 1990.


PI 544353. Trifolium repens L. FABACEAE White clover

PI 544353-continued


PI 544354. Glycine max (L.) Merr. FABACEAE Soybean


PI 544355 to 545480. Avena fatua L. POACEAE Wild oats

Donated by: Briggle, L.W., USDA-ARS, Plant Science Institute, BARC-WEST, Beltsville, Maryland, United States. Received September 01, 1990.

PI 544355 to 545480-continued

PI 544356  
**donor id:** AF-4.  
**origin:** United States.  
**collected:** July 08, 1973.  
**locality:** 5 mi. south of Hammer along Hwy. 81; oat field.  
**remarks:** Lemma and palea gray, slightly pubescent to glabrous. Callus and rachilla short to long pubescence. Groat 70%. Annual. Wild. Seed.

PI 544357  
**donor id:** AF-8.  
**origin:** United States.  
**collected:** July 08, 1973.  
**locality:** 2 mi. east of Cavour along Hwy. 14; wheat field.  

PI 544358  
**donor id:** AF-13.  
**origin:** United States.  
**collected:** July 08, 1973.  
**locality:** 9 mi. south of Watertown along Hwy. 81; oat field.  
**remarks:** Lemma and palea gray, glabrous to slightly pubescent. Callus and rachilla short to long pubescence. Groat protein 22.3%. Tolerant to BYDV at Urbana, IL. Annual. Wild. Seed.

PI 544359  
**donor id:** AF-17.  
**origin:** United States.  
**collected:** August 03, 1973.  
**locality:** 10 mi. northwest of Brigham City along I-15; wheat field.  
**remarks:** Lemma and palea gray, glabrous. Callus and rachilla long pubescence. Annual. Wild. Seed.

PI 544360  
**donor id:** AF-18.  
**origin:** United States.  
**collected:** July 08, 1973.  
**locality:** 5 mi. north of Watertown along Hwy. 81; oat field.  
**remarks:** Lemma and palea gray, glabrous. Callus and rachilla short pubescence. Good tolerance to BYDV at Urbana, IL. Annual. Wild. Seed.

PI 544361  
**donor id:** AF-19.  
**origin:** United States.  
**collected:** July 08, 1973.  
**locality:** 15 mi. north of De Smet along Hwy. 25; flax field.  
**remarks:** Lemma and palea gray, glabrous to slight pubescence. Callus and rachilla medium to long pubescence. Groat 71%. Groat protein 22.5%. Annual. Wild. Seed.

PI 544362  
**donor id:** AF-23.  
**origin:** United States.  
**collected:** July 08, 1973.  
**locality:** 4 mi. south of Sisseton along Hwy. 81; oat field.  

PI 544363  
**donor id:** AF-24.  
**origin:** United States.  
**collected:** July 08, 1973.  
**locality:** 4 mi. south of Sisseton along Hwy. 81; oat field.  
**remarks:** Lemma and palea brown. Callus and rachilla glabrous to medium pubescence. Annual. Wild. Seed.


PI 544355 to 545480-continued

PI 544372

PI 544373

PI 544374

PI 544375

PI 544376

PI 544377

PI 544378

PI 544379


PI 544355 to 545480-continued


PI 544355 to 545480-continued


PI 544493  
donor id: AF-211.  
origin: United States.  
collected: 1964.  
collector id: RNA-82.  
locality: Red River Valley (MN/ND).  

PI 544494  
donor id: AF-212.  
origin: United States.  
collected: 1964.  
collector id: RNA-83-84.  
locality: Red River Valley (MN/ND).  
remarks: Lemma and palea dark brown; kernels glabrous or moderately pubescent. Annual. Wild. Seed.

PI 544495  
donor id: AF-214.  
origin: United States.  
collected: 1964.  
collector id: RNA-85.  
locality: Red River Valley (MN/ND).  

PI 544496  
donor id: AF-215.  
origin: United States.  
collected: 1964.  
collector id: RNA-86.  
locality: Red River Valley (MN/ND).  
remarks: Lemma and palea brown or white; kernels slightly pubescent. Annual. Wild. Seed.

PI 544497  
donor id: AF-216.  
origin: United States.  
collected: 1964.  
collector id: RNA-87.  
locality: Red River Valley (MN/ND).  

PI 544498  
donor id: AF-217.  
origin: United States.  
collected: 1964.  
collector id: RNA-88.  
locality: Red River Valley (MN/ND).  
remarks: Lemma and palea brown or white; kernels slightly pubescent to pubescent. Groat 70%. Annual. Wild. Seed.

PI 544499  
donor id: AF-218.  
origin: United States.  
collected: 1964.  
collector id: RNA-89.  
locality: Red River Valley (MN/ND).  
remarks: Lemma and palea very white; kernels slightly pubescent to pubescent; long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544500  
donor id: AF-219.  
origin: United States.  
collected: 1964.  
collector id: RNA-90.  
locality: Red River Valley (MN/ND).  
remarks: Lemma and palea white or gray; kernels glabrous. Annual. Wild. Seed.

PI 544501  
donor id: AF-220.  
origin: United States.  
collected: 1964.  
collector id: RNA-91.  
locality: Red River Valley (MN/ND).  
remarks: Lemma and palea white or brown; kernels glabrous or slightly pubescent. Annual. Wild. Seed.


PI 544355 to 545480-continued


PI 544561  
**donor id:** AF-295.  
**origin:** United States.  
**collected:** 1964.  
**collector id:** RNA-295.  
**locality:** Red River Valley (MN/ND).  
**remarks:** Lemma and palea dark brown; kernels glabrous. Annual. Wild. Seed.

PI 544562  
**donor id:** AF-296.  
**origin:** United States.  
**collected:** 1964.  
**collector id:** RNA-171.  
**locality:** Red River Valley (MN/ND).  
**remarks:** Lemma and palea dark brown; kernels slightly pubescent. Annual. Wild. Seed.

PI 544563  
**donor id:** AF-297.  
**origin:** United States.  
**collected:** 1964.  
**collector id:** RNA-172.  
**locality:** Red River Valley (MN/ND).  
**remarks:** Lemma and palea dark brown; kernels glabrous. Annual. Wild. Seed.

PI 544564  
**donor id:** AF-298.  
**origin:** United States.  
**collected:** 1964.  
**collector id:** RNA-173.  
**locality:** Red River Valley (MN/ND).  
**remarks:** Lemma and palea gray or white; kernels glabrous. Annual. Wild. Seed.

PI 544565  
**donor id:** AF-299.  
**origin:** United States.  
**collected:** 1964.  
**collector id:** RNA-174.  
**locality:** Red River Valley (MN/ND).  
**remarks:** Lemma and palea dark brown, slightly pubescent; medium pubescence on rachilla, long pubescence on callus. Annual. Wild. Seed.

PI 544566  
**donor id:** AF-300.  
**origin:** United States.  
**collected:** 1964.  
**collector id:** RNA-175.  
**locality:** Red River Valley (MN/ND).  
**remarks:** Lemma and palea light gray or white; kernels pubescent. Annual. Wild. Seed.

PI 544567  
**donor id:** AF-301.  
**origin:** United States.  
**collected:** 1964.  
**collector id:** RNA-176.  
**locality:** Red River Valley (MN/ND).  
**remarks:** Lemma and palea white or gray, pubescent; long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544568  
**donor id:** AF-302.  
**origin:** United States.  
**collected:** 1964.  
**collector id:** RNA-177.  
**locality:** Red River Valley (MN/ND).  
**remarks:** Lemma and palea dark brown, pubescent; medium pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544569  
**donor id:** AF-303.  
**origin:** United States.  
**collected:** 1964.  
**collector id:** RNA-178.  
**locality:** Red River Valley (MN/ND).  
**remarks:** Lemma and palea dark brown; kernels slightly pubescent; long pubescence on callus and rachilla. Groat 74%. Annual. Wild. Seed.


PI 544355 to 545480—continued

PI 544607  donor id: AF-350.  origin: United States.  collected:

PI 544608  donor id: AF-351.  origin: United States.  collected:

PI 544609  donor id: AF-352.  origin: United States.  collected:

PI 544610  donor id: AF-353.  origin: United States.  collected:

PI 544611  donor id: AF-354.  origin: United States.  collected:

PI 544612  donor id: AF-355.  origin: United States.  collected:

PI 544613  donor id: AF-356.  origin: United States.  collected:

PI 544614  donor id: AF-357.  origin: United States.  collected:

PI 544615  donor id: AF-359.  origin: United States.  collected:

444
PI 544616  **donor id:** AF-360.  **origin:** United States.  **collected:** July 30, 1973.  **locality:** 1.5 mi. west, 1.75 mi. north of Roseglen.  **remarks:** Lemma and palea dark gray, dull black, or white; kernels glabrous.  Annual.  Wild.  Seed.

PI 544617  **donor id:** AF-362.  **origin:** United States.  **collected:** August 02, 1973.  **locality:** 13 mi. south of Plaza; poorly drained area.  **remarks:** Lemma and palea dark brown; kernels pubescent.  Annual.  Wild.  Seed.

PI 544618  **donor id:** AF-363.  **origin:** United States.  **collected:** August 02, 1973.  **locality:** 1.5 mi. west, 3 mi. north of Roseglen.  **remarks:** Lemma and palea brown or dark gray; kernels glabrous.  Annual.  Wild.  Seed.

PI 544619  **donor id:** AF-364.  **origin:** United States.  **collected:** July 27, 1973.  **locality:** 3 mi. west of Roseglen; summer fallow field, well-drained.  **remarks:** Lemma and palea dull black or dark brown; kernels glabrous.  Annual.  Wild.  Seed.

PI 544620  **donor id:** AF-366.  **origin:** United States.  **collected:** July 27, 1973.  **locality:** 3 mi. west of Roseglen; summer fallow field, well-drained.  **remarks:** Lemma and palea brown; kernels glabrous.  Tolerant to BYDV at Urbana, IL.  Annual.  Wild.  Seed.

PI 544621  **donor id:** AF-367.  **origin:** United States.  **collected:** July 27, 1973.  **locality:** 3 mi. west, .25 mi. north of Roseglen; durum wheat field, low area.  **remarks:** Lemma and palea dark gray; kernels glabrous.  Annual.  Wild.  Seed.

PI 544622  **donor id:** AF-369.  **origin:** United States.  **collected:** July 27, 1973.  **locality:** 3 mi. west, .5 mi. north of Roseglen; wheat field, high area.  **remarks:** Lemma and palea brown; kernels glabrous.  Annual.  Wild.  Seed.

PI 544623  **donor id:** AF-371.  **origin:** United States.  **collected:** 1973.  **locality:** 3 mi. west of Roseglen.  **remarks:** Lemma and palea gray to dark gray; kernels glabrous to slightly pubescent.  Annual.  Wild.  Seed.

PI 544624  **donor id:** AF-376.  **origin:** United States.  **collected:** September 07, 1973.  **locality:** Univ. of California Tulelake Field Station; potato field.  **remarks:** Lemma and palea brown; kernels pubescent.  Annual.  Wild.  Seed.


donor id: AF-400. origin: United States. collected: August 19, 1973. locality: 5.25 mi. north, 2 mi. west of Verona along County Hwy. 34; sunflower field. remarks: Lemma and palea brown or gray or white, almost glabrous; kernels glabrous. Annual. Wild. Seed.

PI 544635


PI 544636


PI 544637

donor id: AF-446. origin: United States. collected: April 07, 1974. locality: 2 mi. east of Brawley; south side of ditch bank. remarks: Lemma and palea brown to dark brown, pubescent to very pubescent; medium to long pubescence on callus and rachilla. Groat 71%. Annual. Wild. Seed.

PI 544638


PI 544639


PI 544640


PI 544641


PI 544647 donor id: AF-470. origin: United States. collected: March 31, 1974. locality: Univ. of California Exp. Station, Brawley. remarks: Lemma and palea white, glabrous to slightly pubescent; medium to long pubescence on callus and rachilla. Protein 25.4 - 26.3%. Annual. Wild. Seed.


PI 544654 donor id: AF-509. origin: United States. collected: July 08, 1974. locality: .5 mi. south of intersection Hwy. 91/14, 6 mi. south of Russell; flax field. remarks: Lemma and palea gray, glabrous; medium-long pubescence on callus and rachilla. Protein 26.2%. Annual. Wild. Seed.


PI 544663 donor id: AF-526. origin: United States. collected: July 09, 1974. locality: 20 mi. east of Billsburg along Hwy. 34; wheat field thinly planted. remarks: Lemma and palea gray or white, glabrous; medium pubescence on callus and rachilla. Annual. Wild. Seed.


PI 544665 donor id: AF-530. origin: United States. collected: July 09, 1974. locality: 2 mi. west of Union Center along Hwy. 34; newly planted alfalfa field. remarks: Lemma and palea gray, glabrous; medium pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544667 **donor id:** AF-534. **origin:** United States. **collected:** July 09, 1974. **locality:** 3 mi. west of Redfield along Hwy. 212; heavy infestation in an oat field. **remarks:** Lemma and palea dark brown, pubescent; long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544668 **donor id:** AF-536. **origin:** United States. **collected:** July 09, 1974. **locality:** 3 mi. west of Redfield along Hwy 212; heavy infestation in an oat field. **remarks:** Lemma and palea gray, glabrous. Annual. Wild. Seed.

PI 544669 **donor id:** AF-540. **origin:** United States. **collected:** July 09, 1974. **locality:** 5 mi. west of Redfield along Hwy. 212; oat field. **remarks:** Lemma and palea gray or white, glabrous; medium pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544670 **donor id:** AF-541. **origin:** United States. **collected:** July 09, 1974. **locality:** 5 mi. west of Redfield along Hwy. 212; oat field. **remarks:** Lemma and palea dark gray, slightly pubescent; long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544671 **donor id:** AF-542. **origin:** United States. **collected:** July 09, 1974. **locality:** 6 mi. west of Redfield along Hwy 212. **remarks:** Lemma and palea dark gray, glabrous; medium to long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544672 **donor id:** AF-544. **origin:** United States. **collected:** July 09, 1974. **locality:** 10 mi. west of Redfield along Hwy. 212; oat field. **remarks:** Lemma and palea very light gray or off-white, glabrous; medium pubescence on callus and rachilla. Slight reddish tint on off-white seed. Annual. Wild. Seed.

PI 544673 **donor id:** AF-546. **origin:** United States. **collected:** July 09, 1974. **locality:** North of Orient along Hwy 212. **remarks:** Lemma and palea dark gray, glabrous. Protein 25.3%. Annual. Wild. Seed.

PI 544674 **donor id:** AF-549. **origin:** United States. **collected:** July 09, 1974. **locality:** 1 mi. north of Orient along Hwy. 212; wheat field. **remarks:** Lemma and palea gray, white, or light brown, glabrous, except callus. Protein 25.8%. Annual. Wild. Seed.

PI 544675 **donor id:** AF-551. **origin:** United States. **collected:** July 09, 1974. **locality:** 5 mi. east of Faulkton at intersection of Hwy. 212/45; wheat field. **remarks:** Lemma and palea gray to dark gray, glabrous; medium to long pubescence on callus and rachilla. Annual. Wild. Seed.
PI 544676  donor id: AF-553.  origin: United States.  collected:
July 09, 1974.  locality: 5 mi. east of Faulkton at
intersection of Hwy. 212/45; wheat field.  remarks: Lemma
and palea dark gray or white, pubescent.  Protein 25.8%.
Annual.  Wild.  Seed.

PI 544677  donor id: AF-556.  origin: United States.  collected:
July 09, 1974.  locality: 1 mi. east of Faulkton along
Hwy. 212; spring wheat field.  remarks: Lemma and palea

PI 544678  donor id: AF-557.  origin: United States.  collected:
July 09, 1974.  locality: 10 mi. west of Faulkton along
Hwy. 212; oat field.  remarks: Lemma and palea gray or
white, glabrous to slightly pubescent; short or long

PI 544679  donor id: AF-561.  origin: United States.  collected:
July 09, 1974.  locality: 3 mi. west of Seneca along Hwy.
212; wheat field.  remarks: Lemma and palea gray,
blabrous; short pubescence on callus and rachilla.
Annual.  Wild.  Seed.

PI 544680  donor id: AF-566.  origin: United States.  collected:
July 09, 1974.  locality: 12 mi. west of Seneca along
Hwy. 212.  remarks: Lemma and palea light gray, glabrous;
medium pubescence on callus and rachilla.  Annual.  Wild.
Seed.

PI 544681  donor id: AF-568.  origin: United States.  collected:
July 09, 1974.  locality: 1 mi. west of Gettysburg along
Hwy. 212; wheat field.  remarks: Lemma and palea gray to
dark gray, glabrous to slightly pubescent; medium to long
pubescence on callus and rachilla.  Groat 70%.  Annual.
Wild.  Seed.

PI 544682  donor id: AF-572.  origin: United States.  collected:
July 09, 1974.  locality: 1 mi. west of Gettysburg along
Hwy 212; wheat field.  remarks: Lemma and palea gray,
nearly glabrous; long pubescence on callus and rachilla.
Protein 25.4%.  Annual.  Wild.  Seed.

PI 544683  donor id: AF-573.  origin: United States.  collected:
July 09, 1974.  locality: 1 mi. west of Gettysburg along
Hwy. 212; wheat field.  remarks: Lemma and palea gray,
glabrous, except callus.  Protein 25.8%.  Annual.  Wild.
Seed.


PI 544687  donor id: AF-581.  origin: United States.  collected: July 09, 1974.  locality: 5 mi. west of LaPlant along Hwy. 212; wheat field.  remarks: Lemma and palea light gray or white, glabrous; medium pubescence on callus and rachilla.  Possible resistant to cereal leaf beetle.  Annual.  Wild.  Seed.


PI 544690  donor id: AF-592.  origin: United States.  collected: July 09, 1974.  locality: 1 mi. west of Parade; wheat field.  remarks: Lemma and palea dark brown or gray, glabrous to moderately pubescent; medium to long pubescence on callus and rachilla.  Annual.  Wild.  Seed.

PI 544692 donor id: AF-596. origin: United States. collected: July 09, 1974. locality: 5 mi. east of Dupree along Hwy. 212; oat field. remarks: Lemma and palea gray or white, glabrous; medium pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544693 donor id: AF-599. origin: United States. collected: July 09, 1974. locality: 1 mi. west of Dupree along Hwy. 212; oat field. remarks: Lemma and palea gray or white, glabrous; long pubescence on callus and rachilla. Annual. Wild. Seed.


PI 544699 donor id: AF-619. origin: United States. collected: July 10, 1974. locality: 5 mi. west of Spotted Horse along Hwy. 14/16; barley field. remarks: Lemma and palea white to gray, glabrous; short to long pubescence on callus and rachilla. Protein 25.8%. Annual. Wild. Seed.


456


PI 544732  donor id: AF-688.  origin: United States.  collected: July 26, 1974.  locality: 1 mi. north of Montpelier along Hwy. 30; high, dry area in a wheat field.  remarks: Lemma and palea gray or white, glabrous; very short pubescence on callus and rachilla.  Annual.  Wild.  Seed.


PI 544751  
donor id: AF-759.  
origin: United States.  
collected: July 14, 1974.  
locality: 33 mi. south of American Falls along Hwy. 37; wheat field.  
remarks: Lemma and palea gray to dark gray, glabrous; short pubescence on callus and rachilla. Possible resistance to cereal leaf beetle.  
Annual. Wild. Seed.

PI 544752  
donor id: AF-762.  
origin: United States.  
collected: July 14, 1974.  
locality: .5 mi. west of Malad along Hwy. 37; irrigated wheat field. with heavy infestation of A. fatua.  
remarks: Lemma and palea light gray or white, glabrous to slightly pubescent; short to medium-long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544753  
donor id: AF-764.  
origin: United States.  
collected: July 14, 1974.  
locality: south of Malad.  
remarks: Lemma and palea light gray or white, glabrous or slightly pubescent; short to long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544754  
donor id: AF-765.  
origin: United States.  
collected: July 14, 1974.  
locality: 2 mi. south of Malad; irrigated barley field.  

PI 544755  
donor id: AF-768.  
origin: United States.  
collected: July 14, 1974.  
locality: 10 mi. south of Idaho-Utah border along I-15; abandoned area with solid stand of A. fatua 5 ft. tall.  

PI 544756  
donor id: AF-769.  
origin: United States.  
collected: July 14, 1974.  
locality: 10 mi. south of Idaho-Utah border along I-15; abandoned area with solid stand of A. fatua 5 ft. tall.  
remarks: Lemma and palea light gray or white, glabrous; long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544757  
donor id: AF-770.  
origin: United States.  
collected: July 14, 1974.  
locality: near Logan; wheat field with heavy infestation of A. fatua.  
remarks: Lemma and palea light gray to gray, glabrous to slightly pubescent; short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544758  
donor id: AF-774.  
origin: United States.  
collected: July 14, 1974.  
locality: 2 mi. west of Logan along Hwy. 30; wheat field with a heavy infestation of A. fatua.  
PI 544759  donor id: AF-776.  origin: United States.  collected: July 14, 1974.  locality: At Beaver Dam, 9 mi. west of Logan along Hwy. 30; barley field.  remarks: Lemma and palea gray or white, glabrous; short or long pubescence on callus and rachilla.  Annual.  Wild.  Seed.

PI 544760  donor id: AF-778.  origin: United States.  collected: July 14, 1974.  locality: 0.5 mi. west of Garden City along Hwy. 89 (shore of Bear Lake); roadside opposite Garden City cemetery.  remarks: Lemma and palea gray or white, glabrous; short pubescence on callus and rachilla.  Annual.  Wild.  Seed.


PI 544355 to 545480-continued


PI 544775 donor id: AF-823. origin: United States. collected:

PI 544776 donor id: AF-826. origin: United States. collected:
July 17, 1974. locality: west of Prairie City. remarks: Lemma and palea light gray to gray, glabrous to slightly pubescent; short to medium pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544777 donor id: AF-832. origin: United States. collected:
July 17, 1974. locality: 5 mi. west of Prairie City along Hwy. 20; spring wheat field. remarks: Lemma and palea white, glabrous; long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544778 donor id: AF-836. origin: United States. collected:
July 17, 1974. locality: east of Prairie City along Hwy. 20. remarks: Lemma and palea gray or white, glabrous; heavy pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544779 donor id: AF-839. origin: United States. collected:
July 17, 1974. locality: 10 mi. east of Prairie City along Hwy. 20; wheat field. remarks: Lemma and palea brown, very slightly pubescent; minute pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544780 donor id: AF-840. origin: United States. collected:

PI 544781 donor id: AF-842. origin: United States. collected:
July 17, 1974. locality: 1 mi. west of Bison along Hwy. 20; barley and oat field. remarks: Lemma and palea slate gray; heavy pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544782 donor id: AF-844. origin: United States. collected:
July 17, 1974. locality: 1 mi. east of Bison along Hwy. 20; oat field. remarks: Lemma and palea white; heavy pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544783 donor id: AF-845. origin: United States. collected:


PI 544788  donor id: AF-862.  origin: United States.  collected: July 17, 1974.  locality: 4 mi. west of Isabel along Hwy. 20; roadside. remarks: Lemma and palea light gray or white, pubescent; heavy pubescence on callus. Annual. Wild. Seed.


PI 544355 to 545480-continued


PI 544809  donor id: AF-922.  origin: United States.  collected: July 18, 1974.  locality: 3 mi. east of Aberdeen along Hwy. 12; wheat field.  remarks: Lemma and palea light gray or white, glabrous; very short pubescence on callus and rachilla; slender seed.  Annual.  Wild.  Seed.


PI 544355 to 545480-continued


PI 544837  
donor id: AF-983.  
origin: United States.  
collected: 
July 18, 1974.  
locality: east of Ortonville along Hwy. 12.  
remarks: Lemma and palea gray, glabrous to slightly pubescent; short to heavy pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544838  
donor id: AF-987.  
origin: United States.  
collected: 
July 18, 1974.  
locality: 12 mi. west of Benson along Hwy. 12; flax field.  
remarks: Lemma and palea dark brown, slightly pubescent; short pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544839  
donor id: AF-989.  
origin: United States.  
collected: 
July 18, 1974.  
locality: 10 mi. west of Benson along Hwy. 12; oat field.  
remarks: Lemma and palea gray, pubescent; long pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544840  
donor id: AF-991.  
origin: United States.  
collected: 
July 18, 1974.  
locality: Danvers, along Hwy. 12; wheat field.  
remarks: Lemma and palea dark brown, slightly pubescent; short pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544841  
donor id: AF-993.  
origin: United States.  
collected: 
July 18, 1974.  
locality: southeast of Benson along Hwy. 12.  
remarks: Lemma and palea gray, slightly pubescent; heavy pubescence on callus and rachilla.  
Possible resistance to cereal leaf beetle.  
Annual.  
Wild.  
Seed.

PI 544842  
donor id: AF-995.  
origin: United States.  
collected: 
July 18, 1974.  
locality: 1.5 mi. west of Atwater along Hwy. 12.  
remarks: Lemma and palea dark brown, very pubescent; medium-long pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544843  
donor id: AF-997.  
origin: United States.  
collected: 
July 29, 1974.  
locality: .5 mi. east of Regal along Hwy. 55; oat field.  
remarks: Lemma and palea gray, glabrous; short pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544844  
donor id: AF-999.  
origin: United States.  
collected: 
July 29, 1974.  
locality: 3 mi. west of Lowry along Hwy. 55; oat field.  
remarks: Lemma and palea dark brown, slightly pubescent; very short pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.


|---|---|---|---|---|---|
PI 544863  
donor id: AF-1047.  
origin: United States.  
collected: July 29, 1974.  
locality: 3 mi. west of Lidgerwood along Hwy. 11; flax field.  
remarks: Lemma and palea brown or gray, pubescent.  
Annual.  
Wild.  
Seed.

PI 544864  
donor id: AF-1048.  
origin: United States.  
collected: July 29, 1974.  
locality: near Forman.  
remarks: Lemma and palea gray, glabrous; very short to moderate pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544865  
donor id: AF-1049.  
origin: United States.  
collected: July 29, 1974.  
locality: near Cayuga.  
remarks: Lemma and palea light brown to brown, slightly pubescent to pubescent.  
Annual.  
Wild.  
Seed.

PI 544866  
donor id: AF-1054.  
origin: United States.  
collected: July 29, 1974.  
locality: near Oakes.  
remarks: Lemma and palea gray, glabrous; very short pubescence on callus and rachilla.  
Protein 25.8%.  
Annual.  
Wild.  
Seed.

PI 544867  
donor id: AF-1057.  
origin: United States.  
collected: July 29, 1974.  
locality: 2 mi. west of Oakes; wheat field.  
remarks: Lemma and palea light brown to tan, pubescent.  
Annual.  
Wild.  
Seed.

PI 544868  
donor id: AF-1058.  
origin: United States.  
collected: July 29, 1974.  
locality: 3 mi. west of Oakes; sudangrass field.  
remarks: Lemma and palea white, glabrous; moderate pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544869  
donor id: AF-1059.  
origin: United States.  
collected: July 29, 1974.  
locality: 11 mi. west of Oakes; wheat field.  
remarks: Lemma and palea white, glabrous; moderate pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544870  
donor id: AF-1060.  
origin: United States.  
collected: July 29, 1974.  
locality: near Monango.  
remarks: Lemma and palea light gray to gray, glabrous; short pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544871  
donor id: AF-1070.  
origin: United States.  
collected: July 29, 1974.  
locality: near Merricourt.  
remarks: Lemma and palea gray, glabrous or slightly pubescent; short to moderate pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.


PI 544890  
**donor id:** AF-1119.  
**origin:** United States.  
**collected:** July 30, 1974.  
**locality:** near Taylor.  
**remarks:** Lemma and palea brown to dark brown, pubescent. Annual. Wild. Seed.

PI 544891  
**donor id:** AF-1120.  
**origin:** United States.  
**collected:** July 30, 1974.  
**locality:** near Taylor.  
**remarks:** Lemma and palea very light gray to gray, glabrous or pubescent; short or long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544892  
**donor id:** AF-1126.  
**origin:** United States.  
**collected:** July 30, 1974.  
**locality:** near Dickinson.  
**remarks:** Lemma and palea dark brown, glabrous; short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544893  
**donor id:** AF-1128.  
**origin:** United States.  
**collected:** July 30, 1974.  
**locality:** near Dickinson.  
**remarks:** Lemma and palea gray, glabrous; very short or heavy pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544894  
**donor id:** AF-1129.  
**origin:** United States.  
**collected:** July 30, 1974.  
**locality:** 1 mi. west of Dickinson along old Hwy. 10; wheat field.  
**remarks:** Lemma and palea gray, pubescent. Annual. Wild. Seed.

PI 544895  
**donor id:** AF-1136.  
**origin:** United States.  
**collected:** July 30, 1974.  
**locality:** west of Dickinson along old Hwy. 10.  
**remarks:** Lemma and palea gray, glabrous; short or heavy pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544896  
**donor id:** AF-1141.  
**origin:** United States.  
**collected:** July 30, 1974.  
**locality:** 10 mi. west of Medora along I-94; wheat field.  
**remarks:** Lemma and palea dark brown, pubescent. Annual. Wild. Seed.

PI 544897  
**donor id:** AF-1143.  
**origin:** United States.  
**collected:** July 30, 1974.  
**locality:** near North Dakota/Montana border along I-94.  
**remarks:** Lemma and palea dark brown, glabrous; very short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544898  
**donor id:** AF-1145.  
**origin:** United States.  
**collected:** July 30, 1974.  
**locality:** 3 mi. west of Wibaux along I-94; wheat field.  
**remarks:** Lemma and palea dark brown, slightly pubescent. Groat 70%. Annual. Wild. Seed.

PI 544899  
**donor id:** AF-1146.  
**origin:** United States.  
**collected:** July 31, 1974.  
**locality:** west of Glendive along I-94.  
**remarks:** Lemma and palea light gray, glabrous; very short pubescence on callus and rachilla. Annual. Wild. Seed.
PI 544900  
donor id: AF-1148.  
origin: United States.  
collected: July 31, 1974.  
locality: 8 mi. west of Glendive along I-94; ditch along highway.  
remarks: Lemma and palea white, glabrous; callus and rachilla pubescent.  
Annual.  
Wild.  
Seed.

PI 544901  
donor id: AF-1149.  
origin: United States.  
collected: July 31, 1974.  
locality: 65 mi. west of Glendive along I-94; ditch along highway.  
remarks: Lemma and palea gray, glabrous; short pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544902  
donor id: AF-1151.  
origin: United States.  
collected: July 31, 1974.  
locality: east of Sheffield along Hwy. 446.  
remarks: Lemma and palea light gray, glabrous; very short pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544903  
donor id: AF-1153.  
origin: United States.  
collected: July 31, 1974.  
locality: near Forsythe.  
remarks: Lemma and palea light gray to gray, glabrous; very short pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544904  
donor id: AF-1158.  
origin: United States.  
collected: July 31, 1974.  
locality: 3 mi. west of Forsythe along Hwy. 12; barley field.  
remarks: Lemma and palea dark brown, glabrous.  
Groat 71%.  
Annual.  
Wild.  
Seed.

PI 544905  
donor id: AF-1160.  
origin: United States.  
collected: July 31, 1974.  
locality: 42 mi. west of Forsythe along Hwy. 12; roadside.  
remarks: Lemma and palea light gray, glabrous; short pubescence on callus and rachilla.  
Groat 71%.  
Annual.  
Wild.  
Seed.

PI 544906  
donor id: AF-1161.  
origin: United States.  
collected: July 31, 1974.  
locality: 11 mi. east of Roundup along Hwy. 12; alfalfa field.  
remarks: Lemma and palea white, glabrous; heavy pubescence on callus and rachilla.  
Annual.  
Wild.  
Seed.

PI 544907  
donor id: AF-1163.  
origin: United States.  
collected: July 31, 1974.  
locality: 12 mi. east of Roundup along Hwy. 12; barley field.  
remarks: Lemma and palea white, glabrous; heavy pubescence on callus and rachilla.  
Groat 71%.  
Annual.  
Wild.  
Seed.

PI 544908  
donor id: AF-1164.  
origin: United States.  
collected: July 31, 1974.  
locality: east of Roundup along Hwy. 12.  
remarks: Lemma and palea gray, slightly pubescent.  
Annual.  
Wild.  
Seed.


PI 544918  donor id: AF-1179. origin: United States. collected: 

PI 544919  donor id: AF-1180. origin: United States. collected: 
July 31, 1974. locality: 12 mi. west of Big Timber along Hwy. 10; wheat field. remarks: Lemma and palea slate gray, glabrous; short pubescence on callus and rachilla. Protein 25.4%. Annual. Wild. Seed.

PI 544920  donor id: AF-1181. origin: United States. collected: 

PI 544921  donor id: AF-1182. origin: United States. collected: 
August 01, 1974. locality: 3-4 mi. south of Bozeman along Hwy. 191; barley field. remarks: Lemma and palea gray, glabrous to slightly pubescent; short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544922  donor id: AF-1184. origin: United States. collected: 

PI 544923  donor id: AF-1187. origin: United States. collected: 

PI 544924  donor id: AF-1188. origin: United States. collected: 

PI 544925  donor id: AF-1190. origin: United States. collected: 

PI 544926  donor id: AF-1191. origin: United States. collected: 
August 01, 1974. locality: 2 mi. north of Rexburg along Hwy. 20; wheat field. remarks: Lemma white, palea gray, slightly pubescent; very short pubescence on callus and rachilla. Annual. Wild. Seed.


PI 544952  donor id: AF-1239.  origin: United States.  collected: August 05, 1974.  locality: 9 mi. west of Malta along Hwy. 2; barley field.  remarks: Lemma and palea dark brown, slightly pubescent; very short pubescence on callus and rachilla. Annual.  Wild.  Seed.


PI 544959  donor id: AF-1251.  origin: United States.  collected: August 06, 1974.  locality: 3 mi. east of Saco along Hwy. 2; wheat field.  remarks: Lemma and palea gray, pubescent; heavy pubescence on callus and rachilla.  Annual.  Wild.  Seed.


PI 544972  
donor id: AF-1273.  
**origin:** United States.  
collected: August 06, 1974.  
**locality:** 30 mi. east of Glasgow along Hwy. 2; wheat field.  
**remarks:** Lemma and palea brown, slightly pubescent; short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544973  
donor id: AF-1274.  
**origin:** United States.  
collected: August 06, 1974.  
**locality:** 30 mi. east of Glasgow along Hwy. 2; wheat field.  
**remarks:** Lemma and palea dark brown, slightly pubescent; heavy pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544974  
donor id: AF-1275.  
**origin:** United States.  
collected: August 06, 1974.  
**locality:** west of Wolf Point along Hwy. 2.  
2. **remarks:** Lemma and palea gray, glabrous; short or heavy pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544975  
donor id: AF-1279.  
**origin:** United States.  
collected: August 06, 1974.  
**locality:** east of Wolf Point along Hwy. 2.  
2. **remarks:** Lemma and palea very light gray or light gray, glabrous; short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544976  
donor id: AF-1282.  
**origin:** United States.  
collected: August 06, 1974.  
**locality:** 18 mi. east of Wolf Point along Hwy. 2; wheat field.  
**remarks:** Lemma and palea white, glabrous; heavy pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544977  
donor id: AF-1283.  
**origin:** United States.  
collected: August 06, 1974.  
**locality:** east of Poplar along Hwy. 2.  
2. **remarks:** Lemma and palea gray, glabrous or slightly pubescent; short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544978  
donor id: AF-1284.  
**origin:** United States.  
collected: August 06, 1974.  
**locality:** 15 mi. east of Poplar along Hwy. 2; wheat field.  
**remarks:** Lemma and palea brown, glabrous; very short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 544979  
donor id: AF-1290.  
**origin:** United States.  
collected: August 06, 1974.  
**locality:** east of Culbertson along Hwy. 2.  
2. **remarks:** Lemma and palea dark brown, very pubescent (woolly). Annual. Wild. Seed.

PI 544980  
donor id: AF-1291.  
**origin:** United States.  
collected: August 06, 1974.  
**locality:** 9 mi. east of Culbertson along Hwy. 2; wheat field.  
**remarks:** Lemma and palea gray, glabrous; pubescence on callus and rachilla. Annual. Wild. Seed.
PI 544981  donor id: AF-1292.  origin: United States.  collected:  
August 06, 1974.  locality: east of Culbertson along Hwy.  
2.  remarks: Lemma and palea dark brown, glabrous or  
slightly pubescent; short pubescence on callus and  

PI 544982  donor id: AF-1295.  origin: United States.  collected:  
August 06, 1974.  locality: 2 mi. east of Montana/North  
Dakota line along Hwy. 2; wheat field.  remarks: Lemma  
and palea very dark brown, pubescent.  Annual.  Wild.  
Seed.

PI 544983  donor id: AF-1296.  origin: United States.  collected:  
August 06, 1974.  locality: west of Williston along Hwy.  
2.  remarks: Lemma and palea gray, glabrous; short  

PI 544984  donor id: AF-1297.  origin: United States.  collected:  
August 06, 1974.  locality: 2 mi. east of Montana/North  
Dakota line along Hwy. 2; wheat field.  remarks: Lemma  
and palea white, glabrous; short pubescence on callus and  

PI 544985  donor id: AF-1298.  origin: United States.  collected:  
August 06, 1974.  locality: 12 mi. west of Williston  
along Hwy. 2; wheat field.  remarks: Lemma and palea dark  
brown, slightly pubescent; very short pubescence on  

PI 544986  donor id: AF-1300.  origin: United States.  collected:  
August 06, 1974.  locality: west of Ray along Hwy. 2.  
remarks: Lemma and palea slate gray, glabrous to slightly  
pubescent; very short pubescence on callus and rachilla.  
Annual.  Wild.  Seed.

PI 544987  donor id: AF-1305.  origin: United States.  collected:  
August 06, 1974.  locality: 11 mi. west of Ray along Hwy.  
2; wheat field.  remarks: Lemma and palea very dark  
brown, slightly pubescent; very short pubescence on  

PI 544988  donor id: AF-1307.  origin: United States.  collected:  
August 06, 1974.  locality: west of Ross along Hwy. 2.  
remarks: Lemma and palea dark brown, slightly pubescent  
or pubescent; very short pubescence on callus and  

PI 544989  donor id: AF-1308.  origin: United States.  collected:  
August 06, 1974.  locality: west of Ross along Hwy. 2.  
remarks: Lemma and palea gray, glabrous or slightly  
pubescent; very short pubescence on callus and rachilla.  
Annual.  Wild.  Seed.

487


PI 545017

PI 545018

PI 545019

PI 545020

PI 545021

PI 545022

PI 545023

PI 545024
PI 544355 to 545480—continued

PI 545025  donor id: AF-1395.  origin: United States.  collected:
August 08, 1974.  locality: near Fisher along Hwy. 2.  remarks:
Lemma and palea gray or slate gray, very slightly pubescent; heavy pubescence on callus and

PI 545026  donor id: AF-1397.  origin: United States.  collected:
August 08, 1974.  locality: 5 mi. east of Fisher along Hwy. 2; roadside.  remarks:
Lemma and palea gray, glabrous; long pubescence on callus; very long pubescence
on rachilla; pubescence buff or tan in color.  Annual.  Wild.  Seed.

PI 545027  donor id: AF-1398.  origin: United States.  collected:
August 09, 1974.  locality: .25 mi. south of Donaldson along Hwy. 75; wheat field.  remarks:
Lemma and palea dark brown, moderately pubescent; very short pubescence

PI 545028  donor id: AF-1399.  origin: United States.  collected:
August 09, 1974.  locality: 1 mi. south of Hallock along Hwy. 75; variety demonstration plots.  remarks:
Lemma and palea gray, moderately pubescent; heavy pubescence on callus and rachilla.  Annual.  Wild.  Seed.

PI 545029  donor id: AF-1400.  origin: United States.  collected:
August 09, 1974.  locality: 3.5 mi. south of Humboldt along Hwy. 75; oat field.  remarks:
Lemma and palea dark brown, slightly pubescent; heavy pubescence on callus and

PI 545030  donor id: AF-1401.  origin: United States.  collected:
August 09, 1974.  locality: 3.5 mi. south of Humboldt along Hwy. 75; oat field.  remarks:
Lemma and palea gray; heavy pubescence on callus.  Annual.  Wild.  Seed.

PI 545031  donor id: AF-1402.  origin: United States.  collected:
August 09, 1974.  locality: 2 mi. north of Humboldt along Hwy. 75; wheat field.  remarks:
Lemma and palea dark gray, moderately pubescent; heavy pubescence on callus and rachilla.  Annual.  Wild.  Seed.

PI 545032  donor id: AF-1403.  origin: United States.  collected:
August 09, 1974.  locality: 2 mi. north of Humboldt along Hwy. 75; wheat field.  remarks:
Lemma and palea dark brown, slightly pubescent; very short pubescence on callus and rachilla.  Annual.  Wild.  Seed.
PI 545033  donor id: AF-1404.  origin: United States.  collected: August 09, 1974.  locality: 2 mi. south of U.S.-Canada border along Hwy. 75; wheat field.  remarks: Lemma and palea gray or slate gray, glabrous or very slightly pubescent; heavy pubescence on callus and rachilla.  Annual.  Wild.  Seed.


PI 544355 to 545480—continued

PI 545059  
donor id: AF-1478.  origin: United States.  collected:  
July 24, 1974.  locality: south edge of Scipio along Hwy.  
91; barley field.  remarks: Lemma and palea brown,  
slightly pubescent; short pubescence on callus and  

PI 545060  
donor id: AF-1479.  origin: United States.  collected:  
July 24, 1974.  locality: south edge of Scipio along Hwy.  
91; barley field.  remarks: Lemma and palea gray or slate  
gray, slightly pubescent; short pubescence on callus and  

PI 545061  
donor id: AF-1481.  origin: United States.  collected:  
July 24, 1974.  locality: 5 mi. south, 1 mi. west of  
Filmore at the Meadow turnoff; barley field.  remarks:  
Lemma and palea slate gray, moderately pubescent; heavy  

PI 545062  
donor id: AF-1485.  origin: United States.  collected:  
July 24, 1974.  locality: north of Cedar City.  remarks:  
Lemma and palea brown or dark brown, slightly pubescent  
to pubescent; short or heavy pubescence on callus and  

PI 545063  
donor id: AF-1490.  origin: United States.  collected:  
July 24, 1974.  locality: north edge of Cedar City;  
alfalfa/wheat field.  remarks: Lemma and palea slate  
gray, slightly pubescent; very short pubescence on callus  

PI 545064  
donor id: AF-1501.  origin: United States.  collected:  
89.  remarks: Lemma and palea gray or slate gray,  
glabrous or slightly pubescent; short or heavy pubescence  

PI 545065  
donor id: AF-1509.  origin: United States.  collected:  
July 25, 1974.  locality: near Richfield along Hwy. 89.  
remarks: Lemma and palea brown or dark brown, slightly  
pubescent or pubescent; very short pubescence on callus  

PI 545066  
donor id: AF-1510.  origin: United States.  collected:  
July 25, 1974.  locality: near Richfield along Hwy. 89.  
remarks: Lemma and palea gray or slate gray, glabrous or  
slightly pubescent; short or very short pubescence on  


PI 544355 to 545480-continued


PI 545087 donor id: AF-1570. origin: United States. collected: July 26, 1974. locality: near shore of Bear Lake along Hwy. 89. remarks: Lemma and palea gray or slate gray, slightly pubescent; short or very short pubescence on callus and rachilla. Annual. Wild. Seed.


PI 545099 donor id: AF-1626. origin: United States. collected: July 26, 1974. locality: 1 mi. west of Tetonica along Hwy. 33; oat field. remarks: Lemma and palea gray, glabrous or slightly pubescent; short to very short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 545100 donor id: AF-1629. origin: United States. collected: July 26, 1974. locality: 25 mi. west of Tetonica along Hwy. 33; wheat field. remarks: Lemma and palea dark brown, glabrous or slightly pubescent; short or very short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 545102 donor id: AF-1633. origin: United States. collected: July 26, 1974. locality: 10 mi. west of Tetonia along Hwy. 33; fallow strip in dryland barley field. remarks: Lemma and palea gray, glabrous or slightly pubescent; very short or heavy pubescence on callus and rachilla. Annual. Wild. Seed.


PI 544355 to 545480-continued


PI 545121  donor id: AF-1678.  origin: United States.  collected: July 27, 1974.  locality: south of Miles City along Hwy. 312.  remarks: Lemma and palea light gray or gray, glabrous or slightly pubescent; short pubescence on callus; short or medium pubescence on rachilla.  Annual.  Wild.  Seed.

PI 545122  donor id: AF-1687.  origin: United States.  collected: July 28, 1974.  locality: 8 mi. east of Miles City along Hwy. 12; oat field.  remarks: Lemma and palea light gray, glabrous or slightly pubescent; short to medium pubescence on callus; medium pubescence on rachilla.  Annual.  Wild.  Seed.


503


PI 545131 donor id: AF-1728. origin: United States. collected: July 28, 1974. locality: 5 mi. north of Bowman along Hwy. 85; fallow area in wheat field. remarks: Lemma and palea dark brown, very pubescent (woolly); very pubescent callus and rachilla. Annual. Wild. Seed.


PI 545153  donor id: AF-1797.  origin: United States.  collected: July 29, 1974.  locality: 11 mi. south of Sterling along Hwy. 83; wet area in wheat field.  remarks: Lemma and palea light gray or gray, glabrous or very slightly pubescent; short or very short pubescence on callus; short or medium pubescence on rachilla.  Annual.  Wild.  Seed.


PI 545172  donor id: AF-1838.  origin: United States.  collected: July 29, 1974.  locality: 1 mi. east of Edgeley along Hwy. 13; wheat field.  remarks: Lemma and palea gray or light gray, glabrous or slightly pubescent; short pubescence on callus; medium pubescence on rachilla.  Annual.  Wild.  Seed.


PI 544355 to 545480—continued


PI 544355 to 545480-continued


PI 545239  donor id: AF-2035. origin: United States. collected: August 02, 1974. locality: 12 mi. west of Killdeer along Hwy. 200; wheat field. remarks: Lemma and palea brown or gray, slightly or moderately pubescent; short or long pubescence on callus and rachilla. Annual. Wild. Seed.


PI 545243  donor id: AF-2048. origin: United States. collected: August 02, 1974. locality: 4 mi. west of Watford City along Hwy. 200; wheat field. remarks: Lemma and palea brown or gray, glabrous; short pubescence on callus; medium pubescence on rachilla. Annual. Wild. Seed.


PI 545249  donor id: AF-2069.  origin: United States.  collected: August 02, 1974.  locality: 20 mi. west of Sidney along Hwy. 200; oat field.  remarks: Lemma and palea gray or dark gray, glabrous or slightly pubescent; short to very short pubescence on callus; very short to medium pubescence on rachilla.  Annual.  Wild.  Seed.


PI 545265  donor id: AF-2100.  origin: United States.  collected: August 03, 1974.  locality: west of Lewistown along Hwy. 200; fallow area in wheat field.  remarks: Lemma and palea gray, glabrous or slightly pubescent; short pubescence on callus; medium pubescence on rachilla.  Annual.  Wild.  Seed.


PI 545320  donor id: AF-2256.  origin: United States.  collected: August 31, 1974.  locality: 37 mi. east of Crosby along Hwy. 5; construction area along road.  remarks: Lemma and palea gray, glabrous or slightly pubescent; short pubescence on callus; medium pubescence on rachilla.  Annual.  Wild.  Seed.


PI 545340  
donor id: AF-2299.  
origin: United States.  
collected:  
September 01, 1974.  
locality: 6 mi. east of Langdon along Hwy. 5; low area in wheat field.  

PI 545341  
donor id: AF-2300.  
origin: United States.  
collected:  
September 01, 1974.  
locality: 6 mi. east of Langdon along Hwy. 5; low area in wheat field.  
remarks: Lemma and palea white, glabrous; long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 545342  
donor id: AF-2301.  
origin: United States.  
collected:  
September 01, 1974.  
locality: 6 mi. east of Langdon along Hwy. 5; wheat field.  

PI 545343  
donor id: AF-2304.  
origin: United States.  
collected:  
September 01, 1974.  
locality: 7 mi. east of Cavalier along Hwy. 5; wheat field.  

PI 545344  
donor id: AF-2305.  
origin: United States.  
collected:  
September 01, 1974.  
locality: 7 mi. east of Cavalier along Hwy. 5; wheat field.  

PI 545345  
donor id: AF-2306.  
origin: United States.  
collected:  
September 01, 1974.  
locality: 7 mi. west of Drayton along Hwy. 66; wheat field.  
remarks: Lemma and palea white, glabrous; long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 545346  
donor id: AF-2310.  
origin: United States.  
collected:  
September 01, 1974.  
locality: 1 mi. west of Donaldson along Hwy. 11; low area in wheat field.  

PI 545347  
donor id: AF-2311.  
origin: United States.  
collected:  
September 01, 1974.  
locality: near Donaldson.  

PI 545348  
donor id: AF-2313.  
origin: United States.  
collected:  
September 01, 1974.  
locality: 4 mi. south of Stephen along Hwy. 75; low area in wheat field.  


PI 545358  donor id: AF-2344.  origin: United States.  collected: June 04, 1975.  locality: Marana; Univ. of Arizona Exp. Station; barley plots.  remarks: Lemma and palea brown or dark brown, pubescent or very pubescent; long pubescence on callus and rachilla. Annual. Wild. Seed.


PI 545361  donor id: AF-2359.  origin: United States.  collected: April 18, 1975.  locality: 1 mi. east of Westover (Baylor County); wheat field.  remarks: Lemma and palea dark brown, very pubescent (woolly); long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 545362  donor id: AF-2360.  origin: United States.  collected: June 30, 1975.  locality: 1 mi. southeast of Stockton (Rooks County); wheat field.  remarks: Lemma and palea gray, glabrous; short pubescence on callus; medium pubescence on rachilla. Annual. Wild. Seed.


PI 544355 to 545480—continued


PI 545369  donor id: AF-2368.  origin: United States.  collected: July 24, 1975.  locality: 1.5 mi. east of Johnson (Big Stone County) along Hwy. 28; wheat field.  remarks: Lemma and palea brown, slightly pubescent; short pubescence on callus and rachilla. Annual.  Wild.  Seed.

PI 545370  donor id: AF-2369.  origin: United States.  collected: July 24, 1975.  locality: 2 mi. west of Erwin (Kingsbury County); wheat field.  remarks: Lemma and palea gray, glabrous; moderate pubescence on callus and rachilla. Annual.  Wild.  Seed.


PI 545381  donor id: AF-2382.  origin: United States.  collected: September 21, 1975.  locality: 4 mi. north of Bonners Ferry (Kootenai River Valley); experimental plots; soil deficient in manganese.  remarks: Lemma and palea dark brown, slightly pubescent (woolly); long pubescence on callus; medium pubescence on rachilla.  Annual.  Wild.  Seed.

PI 545383  donor id: AF-2386.  origin: United States.  collected: September 21, 1975.  locality: 4 mi. north of Bonners Ferry (Kootenai River Valley); experimental plots; soil deficient in manganese.  remarks: Lemma and palea gray, glabrous; long, white pubescence on callus; medium or long pubescence on rachilla.  Annual.  Wild.  Seed.


PI 545394 donor id: AF-2404. origin: United States. collected: September 16, 1975. locality: 4 mi. south of Brigham City (Box Elder County) along Hwy. 89/91; fence row. remarks: Lemma and palea dark gray, glabrous; short pubescence on callus and rachilla. Annual. Wild. Seed.

PI 545395 donor id: AF-2405. origin: United States. collected: July 21, 1975. locality: 5 mi. west, 3 mi. north of Torrington (Goshen County); barley field; sandy soil. remarks: Lemma and palea dark gray, glabrous; long pubescence on callus and rachilla. Annual. Wild. Seed.

PI 545396 donor id: AF-2406. origin: United States. collected: August 09, 1975. locality: 8 mi. north, 1 mi. east of Rozet (Campbell County); dryland wheat field. remarks: Lemma and palea dark brown, very pubescent (woolly); long pubescence on callus and rachilla. Annual. Wild. Seed.


PI 544355 to 545480-continued


PI 545432 donor id: AF-2501. origin: Mexico. collected: September 1978. locality: along toll road to Queretaro near 92.5 km. marker; maize field; heavy clay soil. elevation: 2312m. remarks: Lemma and palea tan, very pubescent (woolly). Possible tolerance to BYDV. Annual. Wild. Seed.


PI 545435  
donor id: AF-2508.  
origin: Mexico.  
collected: September 1978.  
locality: 8 km. north of Libres Puebla along Hwy. 129; oat field.  
elevation: 2348m.  
remarks: Lemma and palea brown, slightly pubescent; callus and rachilla glabrous. May be a hybrid: no callus florets in spikelet remain intact.  
Annual.  
Wild.  
Seed.

PI 545436  
donor id: AF-2509.  
origin: Mexico.  
collected: September 1978.  
locality: 8 km. north of Libres Puebla along Hwy. 129; oat field.  
elevation: 2348m.  
remarks: Lemma and palea tan, very pubescent (woolly). Possible tolerance to BYDV.  
Annual.  
Wild.  
Seed.

PI 545437  
donor id: AF-2510.  
origin: Mexico.  
collected: September 1978.  
locality: 8 km. north of Libres Puebla along Hwy. 129; oat field.  
remarks: Lemma and palea tan, very pubescent (woolly).  
Annual.  
Wild.  
Seed.

PI 545438  
donor id: AF-2514.  
origin: Mexico.  
collected: September 1978.  
locality: 1 km. south of Orienta.  
elevation: 2306m.  
remarks: Lemma and palea tan, very pubescent (woolly).  
Annual.  
Wild.  
Seed.

PI 545439  
donor id: AF-2517.  
origin: Mexico.  
collected: September 1978.  
locality: near San Martin along Hwy. 117; roadside.  
elevation: 2214m.  
remarks: Lemma and palea tan, very pubescent (woolly).  
Annual.  
Wild.  
Seed.

PI 545440  
donor id: AF-2520.  
origin: Mexico.  
collected: September 1978.  
locality: near San Martin along Hwy. 117; roadside.  
elevation: 2214m.  
remarks: Lemma and palea tan, very pubescent (woolly). Possible tolerance to BYDV.  
Annual.  
Wild.  
Seed.

PI 545441  
donor id: AF-2524.  
origin: Mexico.  
collected: September 1978.  
locality: near San Francisco; oat field.  
elevation: 2245m.  
remarks: Lemma and palea tan, very pubescent (woolly).  
Annual.  
Wild.  
Seed.

PI 545442  
donor id: AF-2525.  
origin: Mexico.  
collected: September 1978.  
locality: near San Francisco; oat field.  
elevation: 2245m.  
remarks: Lemma and palea tan, very pubescent (woolly).  
Annual.  
Wild.  
Seed.

PI 545443  
donor id: AF-2526.  
origin: Mexico.  
collected: September 1978.  
locality: near San Francisco; oat field.  
elevation: 2245m.  
remarks: Lemma and palea dark brown, slightly pubescent; very short pubescence on callus and rachilla. Possible tolerance to BYDV.  
Annual.  
Wild.  
Seed.
PI 544355 to 545480-continued


PI 545445  donor id: AF-2529. origin: Mexico. collected: September 1978. locality: 4 to 5 mi. east of San Francisco along Hwy. 190; oat field. elevation: 2361m. remarks: Lemma and palea tan, very pubescent (woolly). Possible tolerance to BYDV. Annual. Wild. Seed.


PI 545450  donor id: AF-2541. origin: Mexico. collected: September 1978. locality: 1 km. from Rio Frio along non-toll road to Puebla; oat field. elevation: 3618m. remarks: Lemma and palea tan or brown, pubescent or very pubescent. Annual. Wild. Seed.

PI 545451  donor id: AF-2546. origin: Mexico. collected: September 1978. locality: 1 km. from Rio Frio along non-toll road to Puebla; oat field. elevation: 3618m. remarks: Lemma and palea tan or brown, pubescent or very pubescent. Annual. Wild. Seed.


donor id: AF-2549. origin: Mexico. collected: September 1978. locality: 1 km. from Rio Frio along non-toll road to Puebla; oat field. elevation: 3618m. remarks: Lemma and palea tan or brown, pubescent or very pubescent. Annual. Wild. Seed.

donor id: AF-2550. origin: Mexico. collected: September 1978. locality: 2 km. east of Tiengo Stengo; oat field. elevation: 2580m. remarks: Lemma and palea tan or brown, pubescent or very pubescent. Annual. Wild. Seed.


donor id: AF-2564. origin: Mexico. collected: September 1978. locality: 46 km. west of Mexico City along Hwy. 15; maize field. remarks: Lemma and palea tan or brown, pubescent or very pubescent. Annual. Wild. Seed.

PI 544355 to 545480-continued


PI 544355 to 545480-continued


PI 545481.  Avena hybrid  POACEAE  Wild oats

Donated by: Briggle, L.W., USDA-ARS, Plant Science Institute, BARC-WEST, Beltsville, Maryland, United States.  Received September 01, 1990.

PI 545482. Apium graveolens L. APIACEAE Celery

Donated by: A. Duda & Sons, Inc, United States. Received October 24, 1990.


PI 545483. Cucurbita pepo L. CUCURBITACEAE Pumpkin

Donated by: Jaunsem, John, United States. Received October 24, 1990.


PI 545484. Lactuca sativa L. ASTERACEAE Lettuce

Donated by: Ferry-Morse Seed Company, United States. Received October 24, 1990.


PI 545485 to 545486. Lactuca sativa L. ASTERACEAE Lettuce

Donated by: Plant Genetics, Inc, United States. Received October 24, 1990.


PI 545487. Pisum sativum L. FABACEAE Pea

Donated by: Crites-Moscow Growers, Inc, United States. Received October 24, 1990.

PI 545488. Cucurbita maxima Duch. CUCURBITACEAE Pumpkin

Donated by: Hollar Seed Company, United States. Received October 24, 1990.


PI 545489 to 545490. Pisum sativum L. FABACEAE Pea

Donated by: L.D. Maffei Seed Co, Inc, United States. Received October 24, 1990.


PI 545491 to 545492. Triticum aestivum L. POACEAE Common wheat


PI 545493 to 545591. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Ahluwalia, M., Agro. Energy Center, India Agricultural Res. Institute, New Delhi, India; and Dabas, B.S., Division of Germplasm Evaluation, NBPGR, New Delhi, India; and Nafie, N.A., Department of Agriculture Botany, Faculty of Agriculture, Shambat, Khartoum, Sudan. Received 1987.
PI 545493 
donor id: ADN 0241.  
origin: Sudan.  
local name: Faterita.  
collector id: ADN 0241.  
locality: Farmland, 10km from Khartoum in a north direction, Khartoum Province.  
received as: S. bicolor subsp. sativa. Landrace. Seed.

PI 545494 
donor id: ADN 0242.  
origin: Sudan.  
local name: Faterita.  
collector id: ADN 0242.  
locality: Farmland, 10km from Khartoum in a north direction, Khartoum Province.  
received as: S. bicolor subsp. sativa. Landrace. Seed.

PI 545495 
donor id: ADN 0243.  
origin: Sudan.  
local name: Faterita.  
collector id: ADN 0243.  
locality: Farmland, 15km from Khartoum in a north direction, Khartoum Province.  
received as: S. bicolor subsp. sativa. Landrace. Seed.

PI 545496 
donor id: ADN 0244.  
origin: Sudan.  
local name: Faterita.  
collector id: ADN 0244.  
locality: Farmland, 18km from Khartoum in a north direction, Khartoum Province.  
received as: S. bicolor subsp. sativa. Landrace. Seed.

PI 545497 
donor id: ADN 0245.  
origin: Sudan.  
local name: Faterita.  
collector id: ADN 0245.  
locality: Farmland, 15km from Khartoum in a north direction, Khartoum Province.  
received as: S. bicolor subsp. sativa. Landrace. Seed.

PI 545498 
donor id: ADN 0246.  
origin: Sudan.  
local name: Giadamelhamam.  
collector id: ADN 0246.  
locality: Farmland, 40km from Khartoum in a west direction, Khartoum Province.  
received as: S. bicolor subsp. sativa. Breeding Material. Seed.

PI 545499 
donor id: ADN 0247.  
origin: Sudan.  
local name: Dabar.  
collector id: ADN 0247.  
locality: Farmland, 18km from Khartoum in a west direction, Khartoum Province.  
received as: S. bicolor subsp. sativa. Landrace. Seed.

PI 545500 
donor id: ADN 0248.  
origin: Sudan.  
local name: Labanelsha.  
collector id: ADN 0248.  
locality: 4km from Kadugli in a north direction, Southern Korodofan Province.  
received as: S. bicolor subsp. sativa. Seed.


PI 545568  
**donor id:** ADN 0321.  
**origin:** Sudan.  
**local name:** Faterita.  
**collected:** November 28, 1987.  
**collector id:** ADN 0321.  
**locality:** Farmland, 46km from Samsam in a south direction, Kassala Province.  
**received as:** S. bicolor subsp. sativa. Landrace. Seed.

PI 545569  
**donor id:** ADN 0322.  
**origin:** Sudan.  
**local name:** Adar.  
**collected:** November 28, 1987.  
**collector id:** ADN 0322.  
**locality:** Farmland, 80km from Samsam in a south direction, Kassala Province.  
**received as:** S. bicolor subsp. spontania. Landrace. Seed.

PI 545570  
**donor id:** ADN 0323.  
**origin:** Sudan.  
**local name:** Faterita.  
**collected:** November 28, 1987.  
**collector id:** ADN 0323.  
**locality:** Farmland, 100km from Samsam in a south direction, Kassala Province.  
**received as:** S. bicolor subsp. sativa. Landrace. Seed.

PI 545571  
**donor id:** ADN 0324.  
**origin:** Sudan.  
**local name:** Adar.  
**collected:** November 28, 1987.  
**collector id:** ADN 0324.  
**locality:** Farmland, 30km from Samsam in a south direction, Kassala Province.  
**received as:** S. bicolor subsp. spontania. Landrace. Seed.

PI 545572  
**donor id:** ADN 0325.  
**origin:** Sudan.  
**collected:** November 28, 1987.  
**collector id:** ADN 0325.  
**locality:** Farmland, south of Samsam, Kassala Province.  
**received as:** S. bicolor subsp. sativa. Landrace. Seed.

PI 545573  
**donor id:** ADN 0326.  
**origin:** Sudan.  
**local name:** Adar.  
**collected:** November 28, 1987.  
**collector id:** ADN 0326.  
**locality:** Farmland, 48km from Samsam in a south direction, Kassala Province.  
**received as:** S. bicolor subsp. spontania. Landrace. Seed.

PI 545574  
**donor id:** ADN 0327.  
**origin:** Sudan.  
**local name:** Adar.  
**collected:** November 28, 1987.  
**collector id:** ADN 0327.  
**locality:** Farmland, 100km from Samsam in a south direction, Kassala Province.  
**received as:** S. bicolor subsp. spontania. Landrace. Seed.

PI 545575  
**donor id:** ADN 0328.  
**origin:** Sudan.  
**local name:** Faterita.  
**collected:** November 28, 1987.  
**collector id:** ADN 0328.  
**locality:** Farmland, 25km from Samsam in a south direction, Kassala Province.  
**received as:** S. bicolor subsp. sativa. Landrace. Seed.

PI 545576  
**donor id:** ADN 0329.  
**origin:** Sudan.  
**local name:** Gadamelhamam.  
**collected:** November 28, 1987.  
**collector id:** ADN 0329.  
**locality:** Farmland, 40km from Samsam in a south direction, Kassala Province.  
**received as:** S. bicolor subsp. sativa. Landrace. Seed.


PI 545592. Medicago sativa L. FABACEAE Alfalfa

PI 545592-continued


PI 545593 to 545680. Lolium sp. POACEAE

Donated by: Metzger, R.J., Dept. of Crop Sciences, Oregon State University, Oregon State University, Corvallis, Oregon, United States. remarks: Received through R. Welty, National Forage Seed Production Research Center, 3450 S.W. Campus Wy., Oregon State University, Corvallis, Oregon. Received September 14, 1989.


other id: W6 1704.  group: W6.  locality: 4km NW Bismil, Diyarbakir province.  elevation: 750m.  Wild.  Seed.


PI 545593 to 545680-continued


PI 545593 to 545680—continued


other id: W6 1756.  group: W6.  locality: 2.5km NE Lapseki, Canakkale province.  elevation: 10m.  Wild.  Seed.


other id: W6 1762.  group: W6.  locality: 12km SE Bandirma, Balikesir province.  elevation: 30m.  Wild.  Seed.

other id: W6 1763.  group: W6.  locality: 3km E Erdek, Balikesir province.  elevation: 15m.  Wild.  Seed.

other id: W6 1764.  group: W6.  locality: 11km NW Karacabey, Bursa province.  elevation: 20m.  Wild.  Seed.

other id: W6 1766.  group: W6.  locality: 1 km SW Zeytinbagi, Bursa province.  elevation: 50m.  Wild.  Seed.

other id: W6 1767.  group: W6.  locality: 1 km S Gemlik, Bursa province.  elevation: 60m.  Wild.  Seed.

other id: W6 1770.  group: W6.  locality: 4km S Inegol, Bursa province.  elevation: 300m.  Wild.  Seed.


PI 545593 to 545680-continued


other id: W6 1789.  group: W6.  locality: 19km S Cankiri, Cankiri province.  elevation: 710m.  Wild. Seed.


other id: W6 1795.  group: W6.  locality: 36km NE Beysekiir, 19km SW Sarkikaraagac, Konya province.  elevation: 1175m. Wild. Seed.


PI 545593 to 545680-continued

PI 545678  

**donor id:** 84TK623-001.  
**origin:** Turkey.  
**collected:** 1984.  
**other id:** W6 1832.  
**group:** W6.  
**locality:** 7km E Tortum-Norman Jct., Erzurum province.  
**elevation:** 1610m.  
Wild.  
Seed.

PI 545679  

**donor id:** 84TK628-001.  
**origin:** Turkey.  
**collected:** 1984.  
**other id:** W6 1833.  
**group:** W6.  
**locality:** 10km NE Gole, Kars province.  
**elevation:** 1975m.  
Wild.  
Seed.

PI 545680  

**donor id:** 84TK632-001.  
**origin:** Turkey.  
**collected:** 1984.  
**other id:** W6 1834.  
**group:** W6.  
**locality:** 53km E. Gole, Kars province.  
**elevation:** 2150m.  
Wild.  
Seed.

PI 545681.  

**Rhus copallina L.**  
**ANACARDIACEAE**

**Donated by:** University of Guelph Arboretum, Guelph, Ontario, Canada.  
**Received February 13, 1984.**

**donor id:** Sample #2.  
**origin:** Canada.  
**other id:** Ames 2806.  
**source:** NC-7.  
**group:** Ames.  
**locality:** Growing in sand at roadside.  
N. Walsingham township, Haldimand-Norfolk Region, Ontario.  
**latitude:** 42 deg. 42 min. N.  
**longitude:** 80 deg. 34 min. W.  
**elevation:** 198m.  
Wild.  
Seed.

PI 545682.  

**Aronia melanocarpa (Michaux) Elliot**  
**ROSACEAE**

**Donated by:** University of Guelph Arboretum, Guelph, Ontario, Canada.  
**Received February 13, 1984.**

**donor id:** Sample #61.  
**origin:** Canada.  
**other id:** Ames 2808.  
**source:** NC-7.  
**group:** Ames.  
**locality:** Growing in sand, on the edge of wet woods.  
Walpole Island, Lambton County, Ontario.  
**latitude:** 42 deg. 37 min. N.  
**longitude:** 82 deg. 29 min. W.  
**elevation:** 177m.  
Wild.  
Seed.

PI 545683.  

**Staphylea bumalda DC.**  
**STAPHYLEACEAE**

**Donated by:** Norges Landbrukshogskole, As, Norway.  
**Received March 07, 1984.**

**donor id:** Sample #93.  
**origin:** Norway.  
**other id:** Ames 2885.  
**source:** NC-7.  
**group:** Ames.  
**Cultivated.**  
Seed.
PI 545684. Tithonia rotundifolia (Miller) S. F. Blake  ASTERACEAE

Donated by: Hortus Botanicus Academiae Silvotechnica, Leningrad, Russian SFSR, USSR. Received June 04, 1984.


PI 545685. Ampelopsis aconitifolia var. glabra Diels & Gilg  VITACEAE

Donated by: Hortus Botanicus Pekinensis, Beijing, China. Received July 26, 1984.


PI 545686. Aronia melanocarpa (Michaux) Elliot  ROSACEAE

Donated by: University of Guelph Arboretum, Guelph, Ontario, Canada. Received November 21, 1984.


PI 545687. Aronia melanocarpa (Michaux) Elliot  ROSACEAE

Donated by: W.J. Beal Botanical Garden, Michigan State University, 412 Olds Hall, East Lansing, Michigan, United States. Received March 28, 1985.


PI 545688 to 545689. Zinnia peruviana (L.) L.  ASTERACEAE

Donated by: Monticello, P.O. Box 316, Charlottesville, Virginia, United States. Received January 13, 1986.


PI 545690. Gypsophila oldhamiana Miq. CARYOPHYLLACEAE

**Donated by:** National Arboretum, Washington, District of Columbia, United States. **remarks:** view agrcd. Received March 31, 1986.

**origin:** Korea, Republic of. **other id:** Ames 5028. **source:** NC-7. **group:** Ames. **locality:** Poor soil on a rocky, sunny, cut-over slope. Twaeji Kogae, Satan Dong, Kyong Gi Do, Ongjin Gun, Taechong Myon, Taechong Island. **elevation:** 80m. Wild. Plant.

PI 545691. Alcea rosea L. MALVACEAE

**Donated by:** Magyar Tudomanyos Akad. Okologiaies, Botanikai Kutatointezette, Institute of Ecology & Botany of Hungary, Vacratot, Hungary. Received June 17, 1986.

**donor id:** Sample #1813. **origin:** Hungary. **other id:** Ames 6045. **source:** NC-7. **group:** Ames. Perennial. Cultivated. Seed.

PI 545692. Malva verticillata L. MALVACEAE


**donor id:** Sample #1827. **origin:** Hungary. **other id:** Ames 6047. **source:** NC-7. **group:** Ames. **remarks:** Used as salad vegetable. Annual. Cultivated. Seed.

PI 545693. Lavatera thuringiaca L. MALVACEAE

**Donated by:** Widrlechner, M., North Central Regional P.I. Station, G206 Agronomy Bldg., Iowa State University, Ames, Iowa, United States. Received September 08, 1986.

**origin:** Netherlands. **other id:** Ames 6104. **source:** NC-7. **group:** Ames. **locality:** City park in 't Hool development, Eindhoven. Cultivated. Seed.

PI 545694. Calendula officinalis L. ASTERACEAE

**Donated by:** Johannessen, C., University of Oregon, Eugene, Oregon, United States. Received November 10, 1986.
PI 545694—continued

origin: India. other id: Ames 7545. source: NC-7. 
group: Ames. other id: NSL 246059. source: Nat. Seed Storage Laboratory, Fort Collins, CO. group: NSSL.
locality: Flower garden, National Bureau of Plant Genetic Resources. Cultivated. Seed.

PI 545695. Zinnia angustifolia Kunth ASTERACEAE

Donated by: Rzedowski, J., Instituto de Ecologia, Patzcuaro, Michoacan, Mexico; and Boyle, T., University of Massachusetts at Amherst, Amherst, Massachusetts, United States. Received March 04, 1987.

group: Ames. Seed.

PI 545696. Zinnia peruviana (L.) L. ASTERACEAE

Donated by: Rzedowski, J., Instituto de Ecologia, Patzcuaro, Michoacan, Mexico; and Boyle, T., University of Massachusetts at Amherst, Amherst, Massachusetts, United States. Received March 04, 1987.


PI 545697. Zinnia haageana Regel ASTERACEAE

Donated by: Botanischer Garten, der Sektion Biowissenschaften, an der Martin-Luther-Universitat, 402 Halle (S.), German Democratic Repub. Received .


PI 545698 to 545700. Calendula officinalis L. ASTERACEAE

Donated by: Kleiman, R., USDA-ARS, Northern Regional Research Center, 1815 N. University St., Peoria, Illinois, United States. Received April 07, 1988.


PI 545698 to 545700-continued


PI 545701.  Calendula suffruticosa M. Vahl  ASTERACEAE

Donated by: Kleiman, R., USDA-ARS, Northern Regional Research Center, 1815 N. University St., Peoria, Illinois, United States.  Received April 07, 1988.


PI 545702 to 545703.  Lavatera trimestris L.  MALVACEAE

Donated by: Widrlechner, M., North Central Regional P.I. Station, G206 Agronomy Bldg., Iowa State University, Ames, Iowa, United States.  Received October 05, 1988.


PI 545704.  Linum flavum L.  LINACEAE  Flax

Donated by: University of Warsaw, Botanical Institute, Botanical Garden, Warsaw, Poland.  Received March 21, 1989.


PI 545705.  Zinnia violacea Cav.  ASTERACEAE

Donated by: Boyle, T., University of Massachusetts at Amherst, Amherst, Massachusetts, United States.  Received May 22, 1989.


PI 545706.  Calendula arvensis L.  ASTERACEAE

PI 545706-continued


PI 545707 to 545708. Calendula suffruticosa M. Vahl ASTERACEAE


PI 545709. Calendula officinalis L. ASTERACEAE


PI 545710. Duchesnea indica (Andrews) Focke ROSACEAE

    Donated by: Ballington, J.R., North Carolina State University, Raleigh, North Carolina, United States. Received .


PI 545711 to 545747. Potato species

    Donated by: Bamberg, John, Inter-Regional Potato Intro. Station, USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States. remarks: Potato species (Solanum spp.) from Mexico. Received December 03, 1983.

    PI 545711 Solanum bulbocastanum Dunal var. bulbocastanum SOLANACEAE origin: Mexico. collected: October 06, 1983. collector id: TRHRG 149. locality: 8 km towards Huitziltepec from El Platanal on Hwy 95 from Chilpancingo to Mexico City. Mixed vegetation of Quercus, Acacia etc. elevation: 1500m. Annual. Wild. Seed.
PI 545712 Solanum hintonii Correll SOLANACEAE

PI 545713 Solanum hjertingii Hawkes SOLANACEAE
origin: Mexico. collected: October 13, 1983. collector id: TRHRG 158. locality: Road to Sierra Hermosa, 6.3 km along road turning off from Hwy 57 at km 29 from Saltillo. Under Juniperus, Pinus etc., in the middle of thorny shrubs and trees. elevation: 2200m. remarks: No flowers. Annual. Wild. Seed.

PI 545714 Solanum hjertingii Hawkes SOLANACEAE
origin: Mexico. collected: October 14, 1983. collector id: TRHRG 160. locality: Los Lirios, 50 km from Saltillo on the road to Allende. 700 m S of the village go up the slope towards the woods. In a fruit garden, protected by thorny shrubs under a Pinus. elevation: 2340m. remarks: Annual. Wild. Seed.

PI 545715 Solanum hjertingii Hawkes SOLANACEAE

PI 545716 Solanum iopetalum (Bitter) Hawkes SOLANACEAE
origin: Mexico. collected: October 23, 1983. collector id: TRHRG 183. locality: Road from Tehuacan to Oaxaca, turning off at Coxcatlan, 24 km towards Zoquitlan, ca. 3 km past La Griega towards Coyomeapa. elevation: 2640m. remarks: Corolla violet, rotate, to 2.5cm diameter. Chromosome # probably 48 (clumpy). Annual. Wild. Seed.

PI 545717 Solanum morelliforme Bitter & Munch SOLANACEAE
origin: Mexico. collected: October 06, 1983. collector id: TRHRG 147. locality: Going up from Mazatlan 10 km, (19 km S of Chilpancingo), ca. 1 km below Microwave Station. Growing as an epiphyte, on a rock and on an oak tree. elevation: 2200m. remarks: Small plants, yellowish, withering. Annual. Wild. Seed.
PI 545718 Solanum morelliforme Bitter & Munch SOLANACEAE
origin: Mexico. collected: October 06, 1983. collector id: TRHRG 148. locality: Going up from Mazatlan 10 km, (19 km S of Chilpancingo), ca 1 km below microwave station. elevation: 2200m. Annual. Wild. Seed.

PI 545719 Solanum morelliforme Bitter & Munch SOLANACEAE

PI 545720 Solanum morelliforme Bitter & Munch SOLANACEAE

PI 545721 Solanum oxycarpum Schiede SOLANACEAE
origin: Mexico. collected: October 23, 1983. collector id: TRHRG 180. locality: Road from Tehuacan to Oaxaca, turning off at Coxcatlan, 21 km towards Zoquitlan, La Griega, where road divides to Zoquitlan and Coyomeapa. Waste place on slope down from the road to cultivated fields and woods. elevation: 2660m. remarks: Plants with flowers and fruits. Annual. Wild. Seed.

PI 545722 Solanum papita Rydb. SOLANACEAE
origin: Mexico. collected: September 22, 1983. collector id: TRHRG 112. locality: Along the track from Huejuquilla to Santa Lucia de la Sierra, 8 km S of Las Canoas. Mountain top area with open pine-oak forest. In moss, on and below calcareous rocks, rich black soil. elevation: 2640m. remarks: Plants growing to ca 10cm. Similar to #’s 110, 111;( plants to 15cm, leaves to 4 jugate with enlarged terminals, 0 interjecteds, calyx lobes ca 2mm, acuminate, fruit globose, green with dark stripes). Collected 1 small fruit. Annual. Wild. Seed.

PI 545723 Solanum papita Rydb. SOLANACEAE
PI 545724  Solanum papita Rydb. SOLANACEAE
collector id: TRHRG 119. locality: Sierra de Sombrerete, just below the microwave tower, 8 km from San Martin.

PI 545725  Solanum papita Rydb. SOLANACEAE
origin: Mexico. collected: September 24, 1983.
collector id: TRHRG 122B. locality: S of Durango, 36 km along track from La Ferreria to Aserradero La Flor. Open pine-oak woodland with sparse ground cover. elevation: 2420m. remarks: Plants 5-20 cm tall. One small fruit (6mm): daughter tubers ca 12mm white or with some purple. Annual. Wild. Seed.

PI 545726  Solanum papita Rydb. SOLANACEAE
origin: Mexico. collected: September 24, 1983.
collector id: TRHRG 125. locality: 3 km beyond La Flor on the track to Las Bayas. Pine-oak forest with perennials, including lupinus. elevation: 2700m. remarks: Fruits ca 10mm, verrucose. Leaflets narrow, acute, flowers small, ca pentagonal. Plants widespread. Annual. Wild. Seed.

PI 545727  Solanum papita Rydb. SOLANACEAE
origin: Mexico. collected: September 24, 1983.
collector id: TRHRG 127. locality: 8 km beyond La Flor on the track to Las Bayas. Oak-pine forest. In moss on boulder in black soil and leaf mould. elevation: 2810m. remarks: Small plants, 1 fruit, globose, verrucose, ca 5 mm. Tubers white. Annual. Wild. Seed.

PI 545728  Solanum papita Rydb. SOLANACEAE
origin: Mexico. collected: September 24, 1983.

PI 545729  Solanum papita Rydb. SOLANACEAE
origin: Mexico. collected: September 25, 1983.
collector id: TRHRG 130. locality: 25 km W of El Salto on hwy 40 at Las Rusias microwave tower. Predominantly pine with some oak and juniper. In black soil, gravel and moss. elevation: 2730m. remarks: Plants to ca 7cm. Several with a single fruit, 7mm diameter, slightly verrucose. Calyx lobes 3mm, acuminate, green. Annual. Wild. Seed.
PI 545730 Solanum papita Rydb. SOLANACEAE
origin: Mexico. collected: September 25, 1983.
collector id: TRHRG 136. locality: 12 km S of El Salto on the track to La Pena. Pine forest with some juniper in a mountainous area. elevation: 2710m. remarks: One large and several smaller plants, typical of the species in this area. Annual. Wild. Seed.

PI 545731 Solanum papita Rydb. SOLANACEAE
origin: Mexico. collected: September 25, 1983.
collector id: TRHRG 137. locality: 16 km S of El Salto on the track to La Pena. Pine forest with a few oaks. elevation: 2790m. remarks: Plants small, including one with a fruit. Rather narrow leaflets. Annual. Wild. Seed.

PI 545732 Solanum papita Rydb. SOLANACEAE
origin: Mexico. collected: September 25, 1983.

PI 545733 Solanum schenckii Bitter SOLANACEAE
origin: Mexico. collected: October 24, 1983. collector id: TRHRG 185. locality: On road from Orizaba to Puebla, km 107.8 from Puebla, about 40 km from Orizaba. Growing under Pinus, Agave, and fruit trees, in-between the fields. elevation: 2600m. remarks: No flowers; fruit ovoid, yellow and green marbled. Plants to 80cm, 2 pairs of laterals. Annual. Wild. Seed.

PI 545734 Solanum sp. SOLANACEAE
origin: Mexico. collected: October 01, 1982. collector id: TRHRG 018. locality: 8 km towards Huiziltepec from El Platanal on Hwy 95 from Chilpancingo to Mexico. Among Quercus, Fraxinus, Acacia and other legumes, fan palms and some bamboo. elevation: 1480m. remarks: Plants less than 15 cm. No evidence of flowering. Spnov A. Annual. Wild. Tuber.

PI 545735 Solanum stoloniferum Schdl. SOLANACEAE
origin: Mexico. collected: October 14, 1982. collector id: TRHRG 042. locality: 12 km from Hwy 55 on road thru San Pedro Tlanisco, about 2 km SW of Tlanisco. At the bottom of a slope growing under maguey and labiate. Scattered Quercus and Pinus on the slope. elevation: 2700m. remarks: Plants mostly senescent; sparsely pubescent; 3 jugate, rare interjecteds. Annual. Wild. Tuber.
PI 545711 to 545747-continued

PI 545736  Solanum stoloniferum Schldl.  SOLANACEAE  
origin:  Mexico.  collected:  September 06, 1983.  
collector id:  TRHRG 061.  locality:  Hwy 85, Zimapan to Tamazunchale, at Las Trancas, about 4 km E along the track towards Nicolas Flores. Mountainous area. Predominantly oak with some cedar and pine. Open vegetation on forest floor, dry, in leaf litter.  
elevation:  2300m.  remarks:  Plants to 45cm. Leaves coarsely pubescent, flowers stellate, pale mauve, darker on back; fruit globose, glaucous with green stripes. Annual. Wild. Seed.

PI 545737  Solanum stoloniferum Schldl.  SOLANACEAE  
origin:  Mexico.  collected:  September 07, 1983.  
collector id:  TRHRG 068.  locality:  Hwy 85, Zimapan to Tamazunchale, near km 143 between Maguey Verde and Pelillos. Mountainous area. Pine-oak forest, steep N facing slope beside the road. Soil reddish, gravelly and dry.  
elevation:  2200m.  remarks:  Plants to 45cm; some flowers; few fruit, round, somewhat glaucous. Few immature new tubers, mother tubers collected. Annual. Wild. Seed.

PI 545738  Solanum stoloniferum Schldl.  SOLANACEAE  
origin:  Mexico.  collected:  September 07, 1983.  
collector id:  TRHRG 075.  locality:  Hwy 85, Zimapan to Tamazunchale, N of Barranca los Marmoles, about 3 km E along the track to La Encarnacion. Mountainous area. In a flat field by apple trees, growing in dark brown soil.  
elevation:  2440m.  remarks:  Plants 60-90cm; corolla rotate, purple; not setting fruit well. Wart-like lesions on roots (spongospora?). Annual. Wild. Seed.

PI 545739  Solanum stoloniferum Schldl.  SOLANACEAE  
origin:  Mexico.  collected:  September 09, 1983.  
collector id:  TRHRG 091.  locality:  From Hwy 120, Cadereyta to Jalpan, about 19 km E towards San Joaquin, then about 5 km along track to El Doctor. Mountainous oak-pine forest. Open plant community in red soil on a slope.  
PI 545740 Solanum stoloniferum Schldl. SOLANACEAE
collector id: TRHRG 110. locality: Along track from Huejuquilla to Santa Lucia de la Sierra, 30 km W of turn to San Juan Capistrano. 45 degree SE facing slope in hilly area. Pine-oak forest with red soil and a black layer of leaf mould and litter. elevation: 2610m.
remarks: Plants ca 15cm, leaves to 4 jugate with enlarged terminals, 0 interjecteds, calyx lobes ca 2mm, acuminate, 3 groups (A,B,C) sampled. B with 1 fruit, globose, 7mm diameter, green with few dark stripes. Annual. Wild. Seed.

PI 545741 Solanum tarnii Hawkes & Hjert. SOLANACEAE
origin: Mexico. collected: October 08, 1982. collector id: TRHRG 036. locality: La Quebradora, on Hwy 120, 50 km from Jalpan towards San Juan del Rio. Just W of the fire observation point at the 2550 m peak. Mountainous area with Pinus and cultivations of corn and maguey. Among scrub vegetation and rocks. elevation: 2600m.

PI 545742 Solanum tarnii Hawkes & Hjert. SOLANACEAE
origin: Mexico. collected: September 04, 1983. collector id: TRHRG 056. locality: About 14 km S of Huayacocotla, near Viborillos, on road to Tulancingo. Among magueys along field border, scattered in corn and at the edge of a pine-oak forest. In brown gravelly loam. elevation: 2410m. remarks: Plants to 45cm, softly pubescent throughout, leaves 2-3 jugate with 0-4 interjecteds. Flowers stellate, strongly reflexed, white, articulation at or below center. Fruit conical, collected 11 Oct. Annual. Wild. Seed.

PI 545743 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE
PI 545744  Solanum tuberosum subsp. andigena Hawkes  SOLANACEAE  
origin: Mexico.  collected: September 08, 1983.  
collector id: TRHRG 082.  locality: From Las Trancas on Hwy 85, Zimapan to Jacala, about 7 km E towards Nicolas Flores, then 3 km NE on the track to Puerto de Piedra. In a corn field with red soil.  elevation: 2510m.  

PI 545745  Solanum verrucosum Schldl.  SOLANACEAE  
origin: Mexico.  collected: September 12, 1983.  
collector id: TRHRG 093.  locality: From Doctor Arroyo to Galeana road, about 35 km NE along track to Zaragoza, just beyond Puerto el Pino. On a slope near head of a barranca in mountains. Oak forest, with open plant community in very rocky, light brown soil.  elevation: 2600m.  
remarks: Plant to ca 1m in protected places, to ca 10cm in open, dry places. Plants varying from short styles, apparently sterile, to normal styles with globose, verrucose fruit.  Annual.  Wild.  Seed.

PI 545746  Solanum verrucosum Schldl.  SOLANACEAE  
origin: Mexico.  collected: September 12, 1983.  
collector id: TRHRG 096.  locality: From Doctor Arroyo to Galeana road, about 60 km NE, beyond La Encantada, on track to Zaragoza. Mountainous oak forest. Open plant community in brown, rocky, gravely soil, below the road.  elevation: 2160m.  

PI 545747  Solanum verrucosum Schldl.  SOLANACEAE  
origin: Mexico.  collected: October 27, 1983.  collector id: TRHRG 197.  locality: Cerro Jocotitlan, road up to the microwave station, 8 km above the village of Jocotitlan. Open woods of Pinus and Quercus.  elevation: 3200m.  

PI 545748 to 545811.  Potato species

Donated by: Bamberg, John, Inter-Regional Potato Intro. Station, USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States.  remarks: Potato species (Solanum spp.) from Mexico.  Received December 03, 1984.
PI 545748 Solanum agrimonifolium Rydb. SOLANACEAE
origin: Mexico. collected: October 20, 1984. collector id: TRHRG 277. locality: Road from San Cristobal de las Casas to Cerro Zontehuitz. 9.7 km along road to microonda tower, turning off the road to Tenejapa. At roadside among Buddleia, Quercus, and Alnus in rich soil. latitude: 16 deg. 49 min.. longitude: 92 deg. 35 min.. elevation: 2750m. remarks: Plants to 2m with thick stems, some flowers and many pointed fruits. Annual. Wild. Seed.

PI 545749 Solanum agrimonifolium Rydb. SOLANACEAE
origin: Mexico. collected: October 20, 1984. collector id: TRHRG 278. locality: Road from San Cristobal de las Casas to Cerro Zontehuitz. 9.8 km along road to microonda tower, turning off road to Tenejapa. At roadside among Buddleia, Quercus, and Alnus in rich soil. latitude: 16 deg. 49 min.. longitude: 92 deg. 35 min.. elevation: 2760m. remarks: Plants to 2m with thick stems, some flowers and many pointed fruits. Annual. Wild. Seed.

PI 545750 Solanum agrimonifolium Rydb. SOLANACEAE
origin: Mexico. collected: October 22, 1984. collector id: TRHRG 280. locality: Road from San Cristobal de las Casas to Cerro Zontehuitz. About 10 km along road to microonda tower, turning off the road to Tenejapa. At roadside among Buddleia, Quercus, and Alnus in rich soil. latitude: 16 deg. 48 min.. longitude: 92 deg. 35 min.. elevation: 2760m. remarks: Plants to 2m with thick stems, some flowers, and many pointed fruits. Annual. Wild. Seed.

PI 545751 Solanum bulbocastanum subsp. dolichophyllum (Bitter) Hawkes SOLANACEAE

PI 545752 Solanum bulbocastanum subsp. dolichophyllum (Bitter) Hawkes SOLANACEAE
origin: Mexico. collected: October 03, 1984. collector id: TRHRG 244. locality: East of Coatepec Harinas, between San Francisco and Porfirio Diaz. Hedgerow between the road and the corn field. In brown soil. latitude: 18 deg. 55 min.. longitude: 99 deg. 43 min.. elevation: 2450m. remarks: Plants to ca 1m. Fruit green, about 15mm diameter. Annual. Wild. Seed.
PI 545753 Solanum cardiophyllum subsp. ehrenbergii Bitter
SOLANACEAE
collector id: TRHRG 211. locality: Hwy 49 at 67 km W of Zacatecas, then 1 km N along the track to Villa de Ramos. Along an uprooted row of Opuntia, in light brown soil. latitude: 22 deg. 39 min. longitude: 101 deg. 57 min. elevation: 2160m. remarks: Plants 10-50 cm. Flowers mostly mauve or white with pale mauve acumens; abundant fruit; globose, ca 15mm diameter, with darker green stipules; tubers round-oval to 3cm. Annual. Wild. Seed.

PI 545754 Solanum demissum Lindley SOLANACEAE

PI 545755 Solanum demissum Lindley SOLANACEAE

PI 545756 Solanum demissum Lindley SOLANACEAE
collector id: TRHRG 203. locality: From Toluca-Temascaltepec, Hwy 130, along Route 3 from La Puerta towards Sultepec at 18 km, and about 1 km E along the track. Slopes of Nevado de Toluca. Under Quercus, in black soil. latitude: 19 deg. 60 min. longitude: 99 deg. 51 min. elevation: 3340m. remarks: Abundant globose, green fruit. Annual. Wild. Seed.
PI 545757 Solanum demissum Lindley SOLANACEAE
origin: Mexico. collected: September 21, 1984. collector id: TRHRG 204A. locality: From Toluca-Temascaltepec, Hwy 130, along Route 3 from La Puerta towards Sultepec at 18 km and about 1 km E along the track. Forested mountain slopes of Nevado with pine and some oak. Black soil. latitude: 19 deg. 06 min.. longitude: 99 deg. 51 min.. elevation: 3340m. remarks: Small rosette plants. Rarely flowers, no mature fruit. Annual. Wild. Seed.

PI 545758 Solanum demissum Lindley SOLANACEAE
origin: Mexico. collected: September 21, 1984. collector id: TRHRG 204C. locality: From Toluca-Temascaltepec, Hwy 130, along Route 3 from La Puerta towards Sultepec at 18 km and about 1 km E along the track. Forested mountain slopes of Nevado with pine and some oak. Black soil. latitude: 19 deg. 06 min.. longitude: 99 deg. 51 min.. elevation: 3340m. Annual. Wild. Seed.

PI 545759 Solanum demissum Lindley SOLANACEAE
origin: Mexico. collected: October 11, 1984. collector id: TRHRG 261. locality: Road from Teacalco to Torre Forestal, 350 m before Estacion Microondas (N slope of Volcan Malinche). At roadside among the tall grass, shaded by Pinus. latitude: 19 deg. 18 min.. longitude: 98 deg. 92 min.. elevation: 2830m. Annual. Wild. Seed.

PI 545760 Solanum demissum Lindley SOLANACEAE
origin: Mexico. collected: October 11, 1984. collector id: TRHRG 264. locality: Cerro Malinche, N slope, 4.7 km above Campamento de Montana, which is on the road from Teacalco to Torre Forestal. Pinus woods, in tall grass on roadside. latitude: 19 deg. 16 min.. longitude: 98 deg. 01 min.. elevation: 3400m. remarks: Fruits ovoid, some white spotting. Annual. Wild. Seed.

PI 545761 Solanum demissum Lindley SOLANACEAE
origin: Mexico. collected: October 11, 1984. collector id: TRHRG 265. locality: N slope of Volcan La Malinche, 2.3 km above Campamento de Montana, which is on the road from Teacalco to Torre Forestal. Growing in tall grass at roadside under big pine trees. latitude: 19 deg. 17 min.. longitude: 98 deg. 02 min.. elevation: 3180m. Annual. Wild. Seed.
PI 545762 Solanum demissum Lindley SOLANACEAE

PI 545763 Solanum demissum Lindley SOLANACEAE

PI 545764 Solanum demissum Lindley SOLANACEAE

PI 545765 Solanum demissum Lindley SOLANACEAE
origin: Mexico. collected: November 02, 1984. collector id: TRHRG 294. locality: Road from Puebla and Cholula to Amecameca, just past highest point (Paso de Cortes), km 22 near the border with Edo. de Puebla. Pine woods. latitude: 19 deg. 05 min.. longitude: 98 deg. 40 min.. elevation: 3640m. Annual. Wild. Seed.

PI 545766 Solanum demissum Lindley SOLANACEAE
origin: Mexico. collected: November 08, 1984. collector id: TRHRG 302. locality: Road from Ixtlahuaca to Mexico City, 35.7 km along road, slope of Cerro Canada Honda. Under pines and Senecio. latitude: 19 deg. 32 min.. longitude: 99 deg. 30 min.. elevation: 3570m. Annual. Wild. Seed.

PI 545767 Solanum demissum Lindley SOLANACEAE
origin: Mexico. collected: November 08, 1984. collector id: TRHRG 304. locality: 44 km along the road from Ixtlahuaca to Mexico City, slope of Cerro Canada Honda. At roadside in the shade of trees and shrubs. latitude: 19 deg. 31 min.. longitude: 99 deg. 29 min.. elevation: 3370m. remarks: Roadside in shade of trees and shrubs. Annual. Wild. Seed.
PI 545768 Solanum hjertingii Hawkes SOLANACEAE  
collector id: TRHRG 239. locality: Rancho de Sr. Arzuaga  
at Las Playas in Sierra Tapon de Toro, NW of Sta. Anita  
(SW of Saltillo). Slope with Pinus cimbroides. latitude:  
25 deg. 08 min.. longitude: 101 deg. 36 min..  
elevation: 2300m. remarks: Fr globose, verrucose, to  
1.2cm. Calyx lobes abruptly and shortly acuminate, midrib  
dark green and more or less glabrous. Tubers 1.5cm,  

PI 545769 Solanum iopetalum (Bitter) Hawkes SOLANACEAE  
collector id: TRHRG 206. locality: From  
Toluca-Temascaltepec, Hwy 130, along Route 3 at about 30  
km, immediately before Paredones. Undisturbed fir-pine  
forest, close to the NW side of the road. latitude: 19  
deg. 02 min.. longitude: 99 deg. 53 min.. elevation:  
2880m. remarks: Plants to 75cm, fruit conical. Some  
plants with raised orange pustules (2-3mm di) on  
underside of leaves. (puccinia pittierana P. Henn).  
Annual. Wild. Seed.

PI 545770 Solanum iopetalum (Bitter) Hawkes SOLANACEAE  
origin: Mexico. collected: October 18, 1984. collector  
id: TRHRG 275. locality: Road from Oaxaca to Puerto  
Angel, Hwy 175 at El Manzanal, km 144. latitude: 16 deg.  
08 min.. longitude: 96 deg. 30 min.. elevation:  
2710m. remarks: Conical fruit, ca 15 x 25mm, some green,  

PI 545771 Solanum iopetalum (Bitter) Hawkes SOLANACEAE  
origin: Mexico. collected: November 06, 1984. collector  
id: TRHRG 295. locality: From Toluca-Temascaltepec Hwy  
130 along route 3 at about km 30, immediately before  
Paredones (about .5 km NE of Paredones). Mixed dense  
Abies and Pinus forest. latitude: 19 deg. 02 min..  
longitude: 99 deg. 53 min.. elevation: 2900m.  

PI 545772 Solanum iopetalum (Bitter) Hawkes SOLANACEAE  
origin: Mexico. collected: November 06, 1984. collector  
id: TRHRG 296. locality: Road from Toluca to Sultepec,  
about 5 km from Paredones towards Tequisquiapan. At  
roadside under big shrubs. latitude: 19 deg. 02 min..  
longitude: 99 deg. 55 min.. elevation: 2730m.  
Annual. Wild. Seed.
PI 545773 Solanum morelliforme Bitter & Munch SOLANACEAE
origin: Mexico. collected: October 10, 1984. collector id: TRHRG 259. locality: Parque Nacionales Valle de Piedras Encimadas, 4 km above Camotepec turning off Hwy 119, Tulancingo to Zacatlan. Epiphyte on rocks shaded by Pinus trees. In deep needle mould. latitude: 19 deg. 01 min. longitude: 98 deg. 02 min. elevation: 2500m. remarks: Plants small, ca 5-10cm, with fruits to ca 7mm diameter. Annual. Wild. Seed.

PI 545774 Solanum morelliforme Bitter & Munch SOLANACEAE

PI 545775 Solanum morelliforme Bitter & Munch SOLANACEAE

PI 545776 Solanum oxycarpum Schiede SOLANACEAE

PI 545777 Solanum oxycarpum Schiede SOLANACEAE
origin: Mexico. collected: October 31, 1984. collector id: TRHRG 286. locality: Malpais de La Joya between Perote and Jalapa, about 32 km from Perote, km 176 on route 140. Among rocks in holes in lava. latitude: 19 deg. 37 min. longitude: 97 deg. 02 min. elevation: 2200m. remarks: Plants with few fruits, no flowers. Annual. Wild. Seed.
PI 545778 Solanum oxycarpum Schiede SOLANACEAE

PI 545779 Solanum oxycarpum Schiede SOLANACEAE
origin: Mexico. collected: November 01, 1984. collector id: TRHRG 288. locality: Turning off route 140 between Perote and Las Vigas, go S from Sierra de Agua (N slope of Cerro Cofre de Perote), 14 km above Pescados, Rajas. Very humid pine woods. latitude: 19 deg. 33 min. longitude: 97 deg. 10 min. elevation: 2840m. remarks: Big plants with fruits; no flowers. Annual. Wild. Seed.

PI 545780 Solanum polytrichon Rydb. SOLANACEAE
origin: Mexico. collected: September 25, 1984. collector id: TRHRG 212. locality: Hwy 49 at 67 km W of Zacatecas, then 1 km N along the track to Villa de Ramos. Along an uprooted row of Opuntia, in light brownish soil. latitude: 22 deg. 39 min. longitude: 101 deg. 57 min. elevation: 2160m. remarks: Calyx lobes acuminate; corolla stellate, lobes 10mm long, pale purple; fruit to 2cm diameter, white speckled; tubers round to irregular obovate, to 4.5cm long. Annual. Wild. Seed.

PI 545781 Solanum polytrichon Rydb. SOLANACEAE
origin: Mexico. collected: September 26, 1984. collector id: TRHRG 217. locality: Hwy 70, about 33 km from Aguascalientes, 10.2 km along the track past Milpillas de Arriba towards Potrero los Lopez. Grassland with Quercus. On altiplano with rock outcrops and rocky, brown-black soil. latitude: 21 deg. 57 min. longitude: 102 deg. 36 min. elevation: 2460m. remarks: Fruit about 12mm diameter, green with white spots. Annual. Wild. Seed.

PI 545782 Solanum polytrichon Rydb. SOLANACEAE
origin: Mexico. collected: September 26, 1984. collector id: TRHRG 218. locality: Hwy 70, about 33 km from Aguascalientes, 10.2 km along the track past Milpillas de Arriba towards Potrero los Lopez. Grassland with Quercus. On altiplano with rock outcrops and rocky brown-black soil. latitude: 21 deg. 57 min. longitude: 102 deg. 36 min. elevation: 2460m. remarks: Fruit globose, about 10mm diameter, white spotted. Annual. Wild. Seed.
PI 545748 to 545811-continued

PI 545783 Solanum polytrichon Rydb. SOLANACEAE
collector id: TRHRG 226. locality: Hwy 70, 12 km NW of Jalpa, 18 km along the track SE towards Tlachichila. On N slopes of the sierras under Quercus. In black, rocky soil. latitude: 21 deg. 35 min.. longitude: 102 deg. 51 min.. elevation: 2460m. remarks: Flowers white; fruit globose, about 1.2cm diameter with white verrucose spots; calyx acuminate, with pigmented midrib. Annual. Wild. Seed.

PI 545784 Solanum polytrichon Rydb. SOLANACEAE
collector id: TRHRG 231. locality: Hwy 54, 10 km SW of Jalpa, 26.3 km along the track towards Tlaltenango. Oak woodland. In dark soil among rocks at the edge of an older road. latitude: 21 deg. 39 min.. longitude: 103 deg. 08 min.. elevation: 2400m. remarks: Small plants, some with severely crinkled leaves. Fruit globose, 1-2cm diameter, with white spotting and some dark green stripes; calyx with dark midrib. Annual. Wild. Seed.

PI 545785 Solanum polytrichon Rydb. SOLANACEAE
collector id: TRHRG 232. locality: Hwy 54, 10 km SW of Jalpa, 26.3 km along the track towards Tlaltenango. Oak woodland. In dark soil among rocks at the edge of an older road. latitude: 21 deg. 39 min.. longitude: 103 deg. 08 min.. elevation: 2400m. remarks: Flowers white, stellate; fruit from single plant globose, to 1.6cm diameter. Annual. Wild. Seed.

PI 545786 Solanum polytrichon Rydb. SOLANACEAE
collector id: TRHRG 233. locality: Hwy 54, 10 km SW of Jalpa, 26.3 km along the track towards Tlaltenango. Oak woodland. In dark soil among rocks at the edge of an older road. latitude: 21 deg. 39 min.. longitude: 103 deg. 08 min.. elevation: 2400m. remarks: Fruit globose, with darker markings and white spots, to 1.3cm diameter; calyx with dark midrib. Annual. Wild. Seed.
PI 545787 Solanum polytrichon Rydb. SOLANACEAE
collector id: TRHRG 235. locality: Hwy 54, 10 km SW of 
Jalpa, 26.3 km along the track towards Tlaltenango. Oak 
woodland. In soil with high organic matter. latitude: 21 
deg. 39 min. longitude: 103 deg. 08 min. elevation: 2400m. remarks: Fruit globose to 1.4cm diameter, white 
spotted and some darker striping (some with galls); calyx 
with long acumen, dark midrib, coarse pubescence. Annual. 
Wild. Seed.

PI 545788 Solanum polytrichon Rydb. SOLANACEAE
collector id: TRHRG 236. locality: Hwy 54, 10 km SW of 
Jalpa, 28.2 km along the track towards Tlaltenango. 
Predominantly oak, with a few pines and other tree 
genera. Grey calcareous rocks, dark organic soil, E 
facing slope. latitude: 21 deg. 40 min. longitude: 
103 deg. 09 min. elevation: 2520m. remarks: Plants 
with flowers and fruit; Fruit to 1.6cm, globose, white 
spotting and dark striping; calyx acuminate, pubescent, 

PI 545789 Solanum polytrichon Rydb. SOLANACEAE
origin: Mexico. collected: November 07, 1984. collector 
id: TRHRG 297. locality: Hwy 57, km 154 from Mexico 
City, between Palmillas and San Juan del Rio, near Palma 
de Romero. Shady area by a stone wall under Opuntias and 
thorny shrubs. latitude: 22 deg. 00 min. longitude: 
99 deg. 57 min. elevation: 2200m. remarks: Fruits 

PI 545790 Solanum schenckii Bitter SOLANACEAE
origin: Mexico. collected: October 25, 1984. collector 
id: TRHRG 283. locality: About km 228 on road from 
Mexico City to Orizaba, 5-6 km after the Esperanza 
Railway station. Growing under pines, Agave, fruit trees, 
and in-between the fields. latitude: 18 deg. 51 min. 
longitude: 97 deg. 21 min. elevation: 2470m. 
remarks: Plants to 80cm with two pairs of laterals. 1 
plant with flowers, mauve. (2n=72; tripolar, diads). 
Annual. Wild. Seed.

PI 545791 Solanum schenckii Bitter SOLANACEAE
origin: Mexico. collected: November 02, 1984. collector 
id: TRHRG 290. locality: Esperanza, going 9 km SE, about 
2-3 km past Boca del Monte station on road to Cumbre de 
Aguila (Microonda station). At roadside under thorny 
shrubs. latitude: 18 deg. 50 min. longitude: 97 deg. 
20 min. elevation: 2470m. remarks: No flowers, 
fruits like those of S. verrucosum. Plants to 60-100cm 
PI 545792  Solanum sp. SOLANACEAE
collector id: TRHRG 224. locality: Hwy 70, 12 km NW of
Jalpa, 14 km along the track SE towards Tlachichila.
Formerly a Quercus forest, now mostly Mimosa. In black
soil. latitude: 21 deg. 36 min.. longitude: 102 deg.
51 min.. elevation: 2220m. remarks: Plant with long
pubescence; corolla white, pentagonal with prominent
acumens; pedicel thickening above articulation; fruit
globose, ca 15mm diameter, green with white spotting;
calyx 4mm with 3mm acumens. Annual. Wild. Seed.

PI 545793  Solanum stoloniferum Schldl. SOLANACEAE
collector id: TRHRG 222. locality: Hwy 70, at km 49 just
before Calvillo, then N thru San Isidro and 12 km N of La
Labor, beyond Temascal towards La Congoja. Quercus
woodland on a NE facing slope. Open vegetation with
adjacent dense mimosa scrub. Soil dark. latitude: 22
deg. 03 min.. longitude: 102 deg. 44 min.. elevation:
2300m. remarks: Plant coarsely pubescent; fruit 15mm
diameter, globose, green with grey mottle; calyx lobes
3mm, acuminate; tuber oblong, 4 cm. Annual. Wild.
Seed.

PI 545794  Solanum stoloniferum Schldl. SOLANACEAE
origin: Mexico. collected: October 03, 1984. collector
id: TRHRG 240. locality: Toluca-Sultepec Road #3, at
about 32 km take turn to Coatepec. At 2.7 km turn E
following tracks 7.7 km towards El Picacho. South of Agua
Bendita. E facing slope in pine forest. In black soil, by
a stream with good regeneration. latitude: 18 deg. 57
min.. longitude: 99 deg. 51 min.. elevation: 2670m.
remarks: Fruit globose to 13mm, green. Above articulation
calyx and pedicel sparsely pubescent. Calyx shortly

PI 545795  Solanum stoloniferum Schldl. SOLANACEAE
origin: Mexico. collected: October 03, 1984. collector
id: TRHRG 241. locality: Toluca-Sultepec Road #3, at
about 32 km take turn to Coatepec. At 2.7 km turn E
following track 7.7 km towards El Picacho. South of Agua
Bendita. E facing slope in pine forest. Under Baccharis
shrub in black soil near stream. latitude: 18 deg. 57
min.. longitude: 99 deg. 51 min.. elevation: 2670m.
remarks: Fruit globose to 13mm, green. Annual. Wild.
Seed.
PI 545796  Solanum stoloniferum Schldl.  SOLANACEAE
origin: Mexico.  collected: October 03, 1984.  collector id: TRHRG 243. locality: Toluca-Sultepec Road #3, take turn at about 32 km to Coatepec. At 2.7 km turn E following track 10.5 km to El Picacho. Under Pinus and other trees between the track and corn field.  latitude: 18 deg. 56 min.  longitude: 99 deg. 49 min. elevation: 2630m.  remarks: Fruit globose to ca 13mm, green; above pedicel articulation sparsely pubescent; calyx lobes sharply acuminate, acumens about 2.5mm. Annual. Wild. Seed.

PI 545797  Solanum stoloniferum Schldl.  SOLANACEAE

PI 545798  Solanum stoloniferum Schldl.  SOLANACEAE

PI 545799  Solanum stoloniferum Schldl.  SOLANACEAE

PI 545800  Solanum stoloniferum Schldl.  SOLANACEAE
origin: Mexico.  collected: October 04, 1984.  collector id: TRHRG 250. locality: Along Hwy 142 from Oaxtepec to Xochimilco, 6.1 km N of Morelos-Mexico state boundary, 3 km W towards CICITEC and 1 km along track. Under Quercus and Pinus.  latitude: 19 deg. 06 min.  longitude: 98 deg. 57 min. elevation: 2930m.  remarks: Fruit globose, green (non-verrucose), about 14mm; calyx partly pigmented, acumens 2-3mm with short pubescence. (250B, 2n=48). Annual. Wild. Seed.
PI 545801 Solanum stoloniferum Schldl. SOLANACEAE
origin: Mexico. collected: October 04, 1984. collector id: TRHRG 250B. locality: Along Hwy 142 from Oaxtepec to Xochimilco, 6.1 km N of Morelos-Mexico state boundary, 3 km W towards CICITEC and 1 km along track. Under Quercus and Pinus. latitude: 19 deg. 06 min.. longitude: 98 deg. 57 min.. elevation: 2930m. remarks: Fruit globose, green (non-verrucose), about 14mm; calyx partly pigmented, acuments 2-3mm with short pubescence. (250B, 2n=48). Annual. Wild. Seed.

PI 545802 Solanum stoloniferum Schldl. SOLANACEAE
origin: Mexico. collected: October 04, 1984. collector id: TRHRG 254. locality: Along Hwy 142 from Oaxtepec to Xochimilco, 6.1 km N of Morelos-Mexico state boundary, 3 km W towards CICITEC and 1 km along track. Under Quercus and Pinus. latitude: 19 deg. 06 min.. longitude: 98 deg. 57 min.. elevation: 2930m. remarks: Corolla pentagonal, very pale blue; fruit globose, green. Annual. Wild. Seed.

PI 545803 Solanum stoloniferum Schldl. SOLANACEAE
origin: Mexico. collected: October 18, 1984. collector id: TRHRG 273. locality: Hwy 175 to Puerto Angel, 22.6 km S of Miahuatlan. In red soil on a steep slope, in a waste place. latitude: 16 deg. 12 min.. longitude: 96 deg. 32 min.. elevation: 2380m. remarks: Fruit to 15mm, green with some pigmented stripes. Tubers to 4.5cm, flat oval, white skin. Annual. Wild. Seed.

PI 545804 Solanum stoloniferum Schldl. SOLANACEAE
origin: Mexico. collected: November 02, 1984. collector id: TRHRG 293. locality: Road from Puebla and Cholula to Amecameca, between Volcan Iztaccihuatl and Volcan Popocatepetl, about 3.3 km from Cholula. At roadside under pines and shrubs. latitude: 19 deg. 05 min.. longitude: 98 deg. 32 min.. elevation: 3040m. Annual. Wild. Seed.

PI 545805 Solanum stoloniferum Schldl. SOLANACEAE
origin: Mexico. collected: November 07, 1984. collector id: TRHRG 298. locality: Hwy 57, km 154 from Mexico City, between Palmillas and San Juan del Rio, near Palma de Romero. Shady area by a stone wall under Opuntias and thorny shrubs. latitude: 20 deg. 00 min.. longitude: 99 deg. 57 min.. elevation: 2200m. remarks: Fruits globose, big for CPH; 1 small fruit. Annual. Wild. Seed.
PI 545806 Solanum stoloniferum Schldl. SOLANACEAE

PI 545807 Solanum stoloniferum Schldl. SOLANACEAE
origin: Mexico. collected: November 08, 1984. collector id: TRHRG 301. locality: Route 55 from Queretaro to Toluca, 2.2 km NW of Acambay, near Dongu. At roadside under shrubs. latitude: 19 deg. 58 min.. longitude: 99 deg. 52 min.. elevation: 2650m. Annual. Wild. Seed.

PI 545808 Solanum tarnii Hawkes & Hjert. SOLANACEAE
origin: Mexico. collected: October 09, 1984. collector id: TRHRG 257. locality: Turning off Hwy 85 (Zimapan/Jacala) at Las Trancas, go 6.4 km along road towards Nicolas Flores. Open roadside slope in Pinus woods among big stones. With Salvia and other herbs. latitude: 20 deg. 48 min.. longitude: 99 deg. 14 min.. elevation: 2440m. remarks: Plants up to 1m. Fruit ovoid, to 20mm long with white spotting and darker green stripes. Annual. Wild. Seed.

PI 545809 Solanum vallis-mexici Juz. ex Buk. SOLANACEAE
origin: Mexico. collected: October 04, 1984. collector id: TRHRG 249. locality: Along Hwy 142 from Oaxtepec to Xochimilco, 6.1 km N of Morelos-Mexico state boundary, 3 km W towards CICITEC and 1 km along track. Under Quercus and Pinus. latitude: 19 deg. 06 min.. longitude: 98 deg. 57 min.. elevation: 2930m. remarks: Plants to about 100cm, past flowering but only small fruit to 7mm, globose, white verrucose, empty and sterile. Calyx acumens ca 3.0mm, pigmented, sparsely pubescent. Annual. Wild. Seed.

PI 545810 Solanum verrucosum Schldl. SOLANACEAE
PI 545811 Solanum verrucosum Schldl. SOLANACEAE
origin: Mexico. collected: October 04, 1984. collector id: TRHRG 251. locality: Along Hwy 142 from Oaxtepec to Xochimilco, 6.1 km N of Morelos-Mexico state boundary, 3 km W towards CICITEC and 1 km along track. Under Quercus and Pinus. latitude: 19 deg. 06 min.. longitude: 98 deg. 57 min.. elevation: 2930m. remarks: Plants with large (about 17mm diam) verrucose fruit. Annual. Wild. Seed.

PI 545812 to 545836. Potato species

Donated by: Bamberg, John, Inter-Regional Potato Intro. Station, USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States. remarks: Potato species (Solanum spp.) from Mexico. Received August 05, 1986.

PI 545812 Solanum brachistotrichum (Bitter) Rydb. SOLANACEAE

PI 545813 Solanum brachistotrichum (Bitter) Rydb. SOLANACEAE
origin: Mexico. collected: September 26, 1984. collector id: TRHRG 213. locality: Hwy 70 about 33 km from Aguascalientes, 8.2 km along the track past Milpillas de Arriba towards Potrero. E facing slope with Mimosa, Opuntia and Quercus. In dark brown soil. latitude: 21 deg. 57 min.. longitude: 102 deg. 35 min.. elevation: 2320m. remarks: Daughter tubers to 2 cm. Annual. Wild. Seed.

PI 545814 Solanum brachistotrichum (Bitter) Rydb. SOLANACEAE
origin: Mexico. collected: September 26, 1984. collector id: TRHRG 214. locality: Hwy 70 about 33 km from Aguascalientes, 8.2 km along the track past Milpillas de Arriba towards Potrero. E facing slope with Mimosa, Opuntia and Quercus. In dark brown soil. latitude: 21 deg. 57 min.. longitude: 102 deg. 35 min.. elevation: 2320m. remarks: Tubers to 2.5cm, flat. Annual. Wild. Seed.
PI 545815 Solanum brachistotrichum (Bitter) Rydb. SOLANACEAE
collector id: TRHRG 215. locality: Hwy 70, about 33 km from Aguascalientes, 8.2 km along the track past Milpillas de Arriba towards Potrero. E facing slope with Mimosa, Opuntia and Quercus. In dark brown soil.
latitude: 21 deg. 57 min.. longitude: 102 deg. 35 min..
elevation: 2310m. remarks: Small plant with trifoliate leaves; daughter tuber round, about 1cm. Annual. Wild. Tuber.

PI 545816 Solanum brachistotrichum (Bitter) Rydb. SOLANACEAE
collector id: TRHRG 219. locality: Hwy 70, about 33 km from Aguascalientes, 10.2 km along the track past Milpillas de Arriba towards Potrero los Lopez. On an altiplano, in rich, dark earth and leaf mould, under Quercus. latitude: 21 deg. 57 min.. longitude: 102 deg. 35 min..
elevation: 2460m. remarks: Tuber about 15mm diameter, round. Annual. Wild. Tuber.

PI 545817 Solanum brachistotrichum (Bitter) Rydb. SOLANACEAE
collector id: TRHRG 223. locality: Hwy 70, at km 49 just before Calvillo, then N thru San Isidro and 12 km N of La Labor, beyond Temascal towards La Congoja. On E facing slope under Quercus, by rocks and cactus. Soil black.
latitude: 22 deg. 03 min.. longitude: 102 deg. 44 min..
elevation: 2300m. remarks: Round daughter tuber about 17mm diameter. Annual. Wild. Tuber.

PI 545818 Solanum bulbocastanum subsp. dolichophyllum (Bitter) Hawkes SOLANACEAE
collector id: TRHRG 238. locality: Jalpa-Guadalajara hwy 54, 16 km N of Ixtlahuacan del Rio. Oak-cedar (Thuja) woodland on red soil. latitude: 20 deg. 59 min..
longitude: 103 deg. 10 min.. elevation: 1990m. remarks: Tubers round-oblong to 1.5cm. Annual. Wild. Tuber.

PI 545819 Solanum bulbocastanum Dunal var. bulbocastanum SOLANACEAE
collector id: TRHRG 229B. locality: Hwy 54, 10 km SW of Jalpa, 20.2 km along the track towards Tlaltenango. Mixed woodland of Quercus and other species. In dark soil with leaf mould. latitude: 21 deg. 38 min.. longitude: 103 deg. 06 min..
elevation: 2160m. remarks: Small plant with no flower or fruit; tubers to about 1.5 cm. Annual. Wild. Tuber.
PI 545820 Solanum cardiophyllum Lindley SOLANACEAE
collector id: TRHRG 234A. locality: Hwy 54, 10 km SW of Jalpa, 26.3 km along the track towards Tlaltenango. Oak woodland. Among rocks under the shade of a Quercus in dark soil. latitude: 21 deg. 39 min.. longitude: 103 deg. 08 min.. elevation: 2400m. remarks: Short pubescence and small brachistotrichum-like hairs; calyx lobes 4mm with 2mm acuminate; corolla lobes to 19mm, white with some mauve on back; anther 7mm, style 13mm; no fruit; tubers globose, flattened, 2.5cm diameter. Annual. Wild. Tuber.

PI 545821 Solanum cardiophyllum Lindley SOLANACEAE
collector id: TRHRG 234B. locality: Hwy 54, 10 km SW of Jalpa, 26.3 km along the track toward Tlaltenango. Oak woodland. Among rocks below an older road. In dark soil. latitude: 21 deg. 39 min.. longitude: 103 deg. 08 min.. elevation: 2400m. remarks: Short pubescence and small brachistotrichum-like hairs; calyx lobes 4mm with 2mm acuminate; corolla lobes to 19mm, white with some mauve on back; anther 7mm, style 13mm; no fruit; tubers globose, flattened, to 2.5cm diameter. Annual. Wild. Tuber.

PI 545822 Solanum cardiophyllum subsp. ehrenbergii Bitter SOLANACEAE
collector id: TRHRG 227A. locality: Hwy 70, 12 km NW of Jalpa, 0.5 km beyond Tlachichila towards Sta. Gertrudis. Flat top of sierras. Along a rock wall between the track and the fields. In red soil. latitude: 21 deg. 33 min.. longitude: 102 deg. 46 min.. elevation: 2260m. remarks: Leaves thick, leathery; flowers stellate, white; no fruit. Tuber globose to 2.5cm diameter. Annual. Wild. Tuber.

PI 545823 Solanum cardiophyllum subsp. ehrenbergii Bitter SOLANACEAE
collector id: TRHRG 227B. locality: Hwy 70, 12 km NW of Jalpa, 0.5 km beyond Tlachichila towards Sta. Gertrudis. Flat top of sierras. Along a rock wall between the track and the field. In red soil. latitude: 21 deg. 33 min.. longitude: 102 deg. 46 min.. elevation: 2260m. remarks: Leaves thick, leathery; flowers stellate, white; no fruit. Tuber globose to 2.5cm diameter. Annual. Wild. Tuber.
PI 545824 Solanum cardiophyllum subsp. ehrenbergii Bitter
SOLANACEAE
collector id: TRHRG 228. locality: Hwy 54, 10 km SW of Jalpa, 20.2 km along the track towards Tlatenango. In mixed woodland of Quercus and other species. In dark soil with leaf mould. latitude: 21 deg. 38 min.. longitude: 103 deg. 06 min.. elevation: 2160m. remarks: Leaves simple, dark green, a lower leaf trifid with decurrent laterals; daughter tuber about 1.2cm diameter. Annual. Wild. Tuber.

PI 545825 Solanum nayaritense (Bitter) Rydb. SOLANACEAE
collector id: TRHRG 225. locality: Hwy 70, 12 km NW of Jalpa, 18 km along the track SE towards Tlachichila. In a Quercus woodland. In open ground between rocks. latitude: 21 deg. 35 min.. longitude: 102 deg. 51 min.. elevation: 2460m. remarks: Plant about 10cm; leaf 3.5cm long, terminal leaflet 2.5 x 1.0cm, 1 pair decurrent laterals; tuber 1cm diameter. Most similar to S. brachistotrichum types. Annual. Wild. Tuber.

PI 545826 Solanum nayaritense (Bitter) Rydb. SOLANACEAE
origin: Mexico. collected: October 09, 1984. collector id: TRHRG 270. locality: Near Sta. Anita, about 1.5 km NE of Sta. Teresa. In red soil. Rare weed mixed with many composites in corn field meseta. latitude: 22 deg. 30 min.. longitude: 104 deg. 46 min.. elevation: 2180m. remarks: Several plants with cream, stellate flowers, none setting fruit. Stolons thick, to 50cm long. Tubers to 3cm, round, flat, white skin. Annual. Wild. Seed.

PI 545827 Solanum nayaritense (Bitter) Rydb. SOLANACEAE
origin: Mexico. collected: October 09, 1984. collector id: TRHRG 270A. locality: Near Sta. Anita, about 1.5 km NE of Sta. Teresa. In red soil. Rare weed mixed with many composites in corn field meseta. latitude: 22 deg. 30 min.. longitude: 104 deg. 46 min.. elevation: 2180m. remarks: Several plants with cream, stellate flowers, none setting fruit. Stolons thick, to 50cm long. Tubers to 3cm, round, flat, white skin. Annual. Wild. Tuber.

PI 545828 Solanum nayaritense (Bitter) Rydb. SOLANACEAE
origin: Mexico. collected: October 09, 1984. collector id: TRHRG 270B. locality: Near Sta. Anita, about 1.5 km NE of Sta. Teresa. In red soil. Rare weed mixed with many composites in corn field meseta. latitude: 22 deg. 30 min.. longitude: 104 deg. 46 min.. elevation: 2180m. remarks: Several plants with cream, stellate flowers, none setting fruit. Stolons thick, to 50cm long. Tubers to 3cm, round, flat, white skin. Annual. Wild. Tuber.
PI 545829 Solanum semidemissum Buk. SOLANACEAE

PI 545830 Solanum sp. SOLANACEAE

PI 545831 Solanum sp. SOLANACEAE

PI 545832 Solanum stenophyllidium Bitter SOLANACEAE

PI 545833 Solanum stoloniferum Schldl. SOLANACEAE
origin: Mexico. collected: October 04, 1984. collector id: TRHRG 252A. locality: Along Hwy 142 from Oaxtepec to Xochimilco, 6.1 km N of Morelos-Mexico state boundary, 3 km W towards CICITEC and 1 km along track. Predominantly Pinus, some Quercus, and among tussock grass. latitude: 19 deg. 06 min. longitude: 98 deg. 57 min. elevation: 2930m. remarks: Plants to ca 60cm, mostly mature; flowers dropping but no fruit; corolla pale purple, rotate; anthers orange and appear fertile. Annual. Wild. Tuber.
PI 545834 Solanum stoloniferum Schdl. SOLANACEAE
origin: Mexico. collected: October 11, 1984. collector id: TRHRG 262. locality: Road from Teacalco to Torre Forestal, 350 m before Estacion Microondas (N slope of Volcan Malinche). At roadside among the tall grass, shaded by Pinus. latitude: 19 deg. 18 min.. longitude: 98 deg. 92 min.. elevation: 2830m. remarks: Small plants without flowers or fruits. Annual. Wild. Seed.

PI 545835 Solanum stoloniferum Schdl. SOLANACEAE

PI 545836 Solanum tuberosum L. var. tuberosum SOLANACEAE

PI 545837 to 545930. Potato species

Donated by: Bamberg, John, Inter-Regional Potato Into. Station, USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin, United States. remarks: Potato species (Solanum spp.) from Bolivia. Received April 28, 1986.

PI 545837 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545838 Solanum acaule Bitter subsp. acaule SOLANACEAE
PI 545839 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545840 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545841 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545842 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545843 Solanum acaule Bitter subsp. acaule SOLANACEAE
origin: Bolivia. collected: April 02, 1986. collector id: HAO 166. locality: Prov. Zudanez or Jaime Mendoza. Corralon Mayu, the Sheep Improvement Station of the Regional Development Corporation for Chuquisaca (CORDECH). 68 km from Tarabuco on road to Azurduy. On edge of sheep pastures. latitude: 19 deg. 27 min.. longitude: 64 deg. 44 min.. elevation: 3540m. Annual. Wild. Seed.

PI 545844 Solanum alandiae Cardenas SOLANACEAE
origin: Bolivia. collected: March 06, 1986. collector id: HAO 025. locality: Prov. Mizque. 44 km from Epizana on road to Sucre. Three km before village of Oyadas, 13 km before th crossing of the Rio Mizque, on the lower side of road. On very steep slope with loose stones. latitude: 17 deg. 54 min.. longitude: 65 deg. 06 min.. elevation: 2500m. Annual. Wild. Seed.
PI 545845 Solanum alandiae Cardenas SOLANACEAE

PI 545846 Solanum arnezii Cardenas SOLANACEAE

PI 545847 Solanum arnezii Cardenas SOLANACEAE
origin: Bolivia. collected: April 01, 1986. collector id: HAO 159. locality: Prov. Azurduy. 26 km from Abra Kasa (85 km from Azurduy) on the road to Tarabuco. 5 km before Cruz Kasa. Growing along stone wall. latitude: 19 deg. 33 min.. longitude: 64 deg. 39 min.. elevation: 3200m. Annual. Wild. Seed.

PI 545848 Solanum astleyi Hawkes & Hjert. SOLANACEAE

PI 545849 Solanum berthaultii Hawkes SOLANACEAE

PI 545850 Solanum berthaultii Hawkes SOLANACEAE
origin: Bolivia. collected: March 08, 1986. collector id: HAO 052. locality: Prov. Yamparaez. Escana. 13 km from turn-off to Sotomayor from main road, 7 km after turning right from junction with Sotomayor road. Weed in and near maize fields and around fig trees. latitude: 19 deg. 16 min.. longitude: 65 deg. 11 min.. elevation: 2600m. Annual. Wild. Seed.
PI 545851 Solanum berthaultii Hawkes SOLANACEAE
origin: Bolivia. collected: March 12, 1986. collector id: HAO 076. locality: Prov. Zudanez. 45 km from Tarabuco, 7 km beyond Icla on road to Azurduy. Slope below the roadway. Among spiny scrub vegetation. 
latitude: 19 deg. 19 min.. longitude: 64 deg. 50 min.. elevation: 2700m. Annual. Wild. Seed.

PI 545852 Solanum berthaultii Hawkes SOLANACEAE

PI 545853 Solanum boliviense Dunal SOLANACEAE
origin: Bolivia. collected: March 15, 1986. collector id: HAO 086B. locality: Prov. Nor Cinti. Jatum Rumi. 68 km from Belen on road from Potosi to Tarija, also 68 km from Camargo going the other way. 4 km before Padcoya going to Camargo from Potosi. Growing on the edge of a field. latitude: 20 deg. 14 min.. longitude: 65 deg. 07 min.. elevation: 3420m. Annual. Wild. Seed.

PI 545854 Solanum doddsii Correll SOLANACEAE
origin: Bolivia. collected: March 04, 1986. collector id: HAO 019. locality: Prov. Carrasco. 2 km from Totora on road to Sucre. About 300 m towards Sucre from the grain storage silos. Lower side of road. latitude: 17 deg. 44 min.. longitude: 65 deg. 06 min.. elevation: 2900m. Annual. Wild. Seed.

PI 545855 Solanum doddsii Correll SOLANACEAE

PI 545856 Solanum doddsii Correll SOLANACEAE
PI 545857 Solanum doddsii Correll SOLANACEAE

PI 545858 Solanum doddsii Correll SOLANACEAE
origin: Bolivia. collected: March 06, 1986. collector id: HAO 032. locality: Prov. Campero. From Aiquile, start toward Epizana, turn right just outside of town toward Omereque. 3.5 km beyond this junction. Among stones, cactus and thorny shrubs. latitude: 18 deg. 09 min.. longitude: 65 deg. 08 min.. elevation: 2300m. Annual. Wild. Seed.

PI 545859 Solanum doddsii Correll SOLANACEAE

PI 545860 Solanum doddsii Correll SOLANACEAE
origin: Bolivia. collected: March 06, 1986. collector id: HAO 034. locality: Prov. Campero. At Uchu Chaj'ra, near La Angostura. 4 km from the turn-off towards Omereque, 2 km before village of Marquilla on property of Florencio Ortiz Salazar. latitude: 18 deg. 09 min.. longitude: 65 deg. 07 min.. elevation: 2300m. Annual. Wild. Seed.

PI 545861 Solanum doddsii Correll SOLANACEAE

PI 545862 Solanum gandarillasii Cardenas SOLANACEAE
PI 545863 Solanum gandarillasii Cardenas SOLANACEAE

PI 545864 Solanum gandarillasii Cardenas SOLANACEAE

PI 545865 Solanum gourlayi subsp. pachytrichum (Hawkes) Hawkes & Hjert. SOLANACEAE
origin: Bolivia. collected: March 14, 1986. collector id: HAO 083. locality: Prov. Saavedra. 11 km from Don Diego on road to Puna. 1 km before Chaqui. By stone walls on broadbean field margins, mostly among stones and protected by spiney bushes. latitude: 19 deg. 34 min.. longitude: 64 deg. 35 min.. elevation: 3460m. Annual. Wild. Seed.

PI 545866 Solanum gourlayi subsp. pachytrichum (Hawkes) Hawkes & Hjert. SOLANACEAE

PI 545867 Solanum gourlayi subsp. pachytrichum (Hawkes) Hawkes & Hjert. SOLANACEAE
PI 545868  Solanum hondelmannii Hawkes & Hjert. SOLANACEAE  
origin: Bolivia. collected: March 08, 1986. collector id: HAO 048. locality: Prov. Yamparaez. Escana. 13 km from turn-off to Sotomayor from main road, 7 km after turning right at junction leaving Sotomayor road. Weed in and around maize and other fields. latitude: 19 deg. 16 min. longitude: 65 deg. 11 min. elevation: 2600m. Annual. Wild. Seed.

PI 545869  Solanum hondelmannii Hawkes & Hjert. SOLANACEAE  
origin: Bolivia. collected: March 08, 1986. collector id: HAO 049. locality: Prov. Yamparaez. Escana. 13 km from turn-off to Sotomayor from main road, 7 km from right turn at junction leaving Sotomayor road. Weed in and around maize and other fields and along roadside. latitude: 19 deg. 16 min. longitude: 65 deg. 11 min. elevation: 2600m. Annual. Wild. Seed.

PI 545870  Solanum hondelmannii Hawkes & Hjert. SOLANACEAE  
origin: Bolivia. collected: March 08, 1986. collector id: HAO 050. locality: Prov. Yamparaez. Escana. 13 km from turn-off to Sotomayor from main road, 7 km after turning right at junction leaving Sotomayor road. At the base of a fig tree. latitude: 19 deg. 16 min. longitude: 65 deg. 11 min. elevation: 2600m. Annual. Wild. Seed.

PI 545871  Solanum hondelmannii Hawkes & Hjert. SOLANACEAE  

PI 545872  Solanum hondelmannii Hawkes & Hjert. SOLANACEAE  
PI 545873 Solanum hondelmannii Hawkes & Hjert. SOLANACEAE

PI 545874 Solanum hondelmannii Hawkes & Hjert. SOLANACEAE
origin: Bolivia. collected: March 09, 1986. collector id: HAO 061. locality: Prov. Yamparaez. 10 km beyond the turn off from the Sucre-Tarabuco road toward Sototmayor. 3.7 km beyond the junction of the road to Escana. Growing as a weed in maize fields. latitude: 19 deg. 15 min.. longitude: 65 deg. 10 min.. elevation: 2640m. Annual. Wild. Seed.

PI 545875 Solanum hondelmannii Hawkes & Hjert. SOLANACEAE

PI 545876 Solanum hondelmannii Hawkes & Hjert. SOLANACEAE

PI 545877 Solanum hondelmannii Hawkes & Hjert. SOLANACEAE

PI 545878 Solanum hondelmannii Hawkes & Hjert. SOLANACEAE
PI 545879  Solanum hondelmannii Hawkes & Hjert. SOLANACEAE

PI 545880  Solanum hoopesii Hawkes & Okada SOLANACEAE

PI 545881  Solanum hoopesii Hawkes & Okada SOLANACEAE

PI 545882  Solanum hoopesii Hawkes & Okada SOLANACEAE
origin: Bolivia. collected: April 01, 1986. collector id: HAO 161B. locality: Prov. Azurduy. 103 km from Azurduy, 13 km beyond Cruz Kasa, on the road to Tarabuco. 37 km before the junction where the road goes to the oil pumping station at Torre Pampa. Growing on ledges at the foot of high cliffs facing east. latitude: 19 deg. 29 min. longitude: 64 deg. 42 min. elevation: 3440m. remarks: spnov A. Annual. Wild. Seed.

PI 545883  Solanum hybrid SOLANACEAE
PI 545884 Solanum hybrid SOLANACEAE

PI 545885 Solanum hybrid SOLANACEAE
origin: Bolivia. collected: March 06, 1986. collector id: HAO 030. locality: Prov. Campero. From Aiquile, start towards Epizana, turn right just outside of town toward Omereque. 3.2 km beyond this junction. Among stones, cactus and thorny shrubs. latitude: 18 deg. 09 min. longitude: 65 deg. 08 min. elevation: 2300m. Annual. Wild. Seed.

PI 545886 Solanum hybrid SOLANACEAE

PI 545887 Solanum hybrid SOLANACEAE
origin: Bolivia. collected: March 15, 1986. collector id: HAO 086A. locality: Prov. Nor Cinti. Jatum Rumi. 68 km from Belen on road from Potosi to Tarija, also 68 km from Camargo going the other way. 4 km before Padcoya going to Camargo from Potosi. Growing on edge of a field. latitude: 20 deg. 14 min. longitude: 65 deg. 07 min. elevation: 3420m. Annual. Wild. Seed.

PI 545888 Solanum hybrid SOLANACEAE

PI 545889 Solanum hybrid SOLANACEAE
PI 545890 Solanum hybrid SOLANACEAE

PI 545891 Solanum hybrid SOLANACEAE
origin: Bolivia. collected: April 01, 1986. collector id: HAO 163. locality: Prov. Azurduy. 110 km from Azurduy, 20 km beyond Cruz Kasa, 30 km before the Torre Pampa junction, on the road to Tarabuco. About 300 m above the road. At the base of a cliff among Blumenbachia and in the open. latitude: 19 deg. 34 min.. longitude: 64 deg. 39 min.. elevation: 3700m. remarks: hoopesii x ugentii hybrids. Annual. Wild. Seed.

PI 545892 Solanum hybrid SOLANACEAE
origin: Bolivia. collected: April 09, 1986. collector id: HAO 175. locality: Prov. Chapare. 9 km from the turn-off at Aguirre from the Cochabamba-Chapare road. Past new dams which are part of the hydroelectric project at Korani. Growing on edges of oca fields. latitude: 17 deg. 18 min.. longitude: 65 deg. 44 min.. elevation: 3500m. Annual. Wild. Seed.

PI 545893 Solanum infundibuliforme Philippi SOLANACEAE

PI 545894 Solanum infundibuliforme Philippi SOLANACEAE

PI 545895 Solanum leptophyes Bitter SOLANACEAE
PI 545896 Solanum leptophyes Bitter SOLANACEAE

PI 545897 Solanum megistacrolobum Bitter SOLANACEAE

PI 545898 Solanum megistacrolobum Bitter SOLANACEAE

PI 545899 Solanum megistacrolobum Bitter SOLANACEAE

PI 545900 Solanum megistacrolobum Bitter SOLANACEAE

PI 545901 Solanum microdontum Bitter SOLANACEAE
PI 545902 Solanum microdontum subsp. gigantophyllum (Bitter) Hawkes & Hjert. SOLANACEAE

PI 545903 Solanum microdontum subsp. gigantophyllum (Bitter) Hawkes & Hjert. SOLANACEAE

PI 545904 Solanum microdontum subsp. gigantophyllum (Bitter) Hawkes & Hjert. SOLANACEAE

PI 545905 Solanum microdontum subsp. gigantophyllum (Bitter) Hawkes & Hjert. SOLANACEAE

PI 545906 Solanum oplocense Hawkes SOLANACEAE
origin: Bolivia. collected: March 20, 1986. collector id: HAO 109. locality: Prov. Sud Chicas. Turn left at checkpoint on north side of Tupiza, taking road towards Oploca. 9 km along road, take right fork towards San Miguel and Atacha. Site is 13 km from Tupiza checkpoint. Edge of maize field and Acacia thicket. latitude: 21 deg. 23 min.. longitude: 65 deg. 49 min.. elevation: 3100m. Annual. Wild. Seed.
PI 545907 Solanum oplocense Hawkes SOLANACEAE
origin: Bolivia. collected: March 20, 1986. collector
17 km from checkpoint on north side of Tupiza, 8 km from
the fork in the road, about 2 km before reaching Oploca.
Near roadside. Under thorny fence. latitude: 21 deg. 22
min.. longitude: 65 deg. 51 min.. elevation: 3120m.
Annual. Wild. Seed.

PI 545908 Solanum oplocense Hawkes SOLANACEAE
origin: Bolivia. collected: March 21, 1986. collector
id: HAO 113. locality: Prov. Sud Chicas or Nor Chicas.
Rio Blanco. 39-40 km from Tupiza checkpoint on road to
Cotagaita. Edge of sloping field under Acacia shrubs.
Also under thorny fences and under bushes in waste
places. latitude: 21 deg. 08 min.. longitude: 65 deg.
48 min.. elevation: 3220m. remarks: Berries

PI 545909 Solanum oplocense Hawkes SOLANACEAE
origin: Bolivia. collected: March 21, 1986. collector
id: HAO 118. locality: Prov. Sud Chicas or Nor Chicas.
Rio Blanco. 39-40 km from Tupiza checkpoint on road to
Cotagaita. latitude: 21 deg. 08 min.. longitude: 65
deg. 48 min.. elevation: 3220m. remarks: Berries

PI 545910 Solanum oplocense Hawkes SOLANACEAE
origin: Bolivia. collected: March 24, 1986. collector
id: HAO 136B.1. locality: Prov. Campero. 24 km north of
Aiquile on road to Totora. 9 km before crossing Rio
Mizque. In shade under spiny shrubs and fences made of
thorn bushes. latitude: 17 deg. 59 min.. longitude: 65
deg. 07 min.. elevation: 2260m. Annual. Wild. Seed.

PI 545911 Solanum sp. SOLANACEAE
origin: Bolivia. collected: March 11, 1986. collector
id: HAO 072. locality: Prov. Zudanez, possibly Jaime
Mendoza. 30 km beyond road to Azurduy. Among stones of
corrals in heavily grazed area. latitude: 19 deg. 27
min.. longitude: 64 deg. 45 min.. elevation: 3400m.
Annual. Wild. Seed.

PI 545912 Solanum sparsipilum (Bitter) Juz. & Buk. SOLANACEAE
origin: Bolivia. collected: March 04, 1986. collector
id: HAO 020. locality: Prov. Carrasco. On the upper side
of the town of Totora. Growing in heavy weed growth along
a stone wall next to the road. latitude: 17 deg. 43
min.. longitude: 65 deg. 06 min.. elevation: 2800m.
Annual. Wild. Seed.
PI 545913 Solanum sparsipilum (Bitter) Juz. & Buk. SOLANACEAE
origin: Bolivia. collected: March 15, 1986. collector id: HAO 087. locality: Prov. Nor Cinti. Jatum Rumi. 68 km from Belen on road from Potosi to Tarija, also 68 from Camargo going the other way. 4 km before Padcooya going to Camargo from Potosi. Growing on edge of broadbean field. latitude: 20 deg. 14 min.. longitude: 65 deg. 07 min.. elevation: 3420m. Annual. Wild. Seed.

PI 545914 Solanum sucrense Hawkes SOLANACEAE

PI 545915 Solanum sucrense Hawkes SOLANACEAE
origin: Bolivia. collected: March 11, 1986. collector id: HAO 065. locality: Prov. Yamparaez (possibly over the border into Zudanez). 15 km from Tarabuco on the road to Icla. 200 meters beyond the Escuela San Jose de Paredon. Upper side of road among stones on retaining wall above road and on edge of potato field. latitude: 19 deg. 15 min.. longitude: 64 deg. 53 min.. elevation: 2900m. Annual. Wild. Seed.

PI 545916 Solanum sucrense Hawkes SOLANACEAE
origin: Bolivia. collected: March 20, 1986. collector id: HAO 111. locality: Prov. Sud Chicas. 300 meters beyond left fork of the road from the checkpoint, this time going towards Oploca. 13 km from the checkpoint, 4 km from junction of San Miguel-Oploca fork in the road. Growing on the edge of maize fields. latitude: 21 deg. 24 min.. longitude: 65 deg. 50 min.. elevation: 3080m. Annual. Wild. Seed.

PI 545917 Solanum sucrense Hawkes SOLANACEAE
PI 545918  Solanum sucrense Hawkes SOLANACEAE

PI 545919  Solanum sucrense Hawkes SOLANACEAE

PI 545920  Solanum tarijense Hawkes SOLANACEAE
origin: Bolivia.  collected: March 08, 1986.  collector id: HAO 040.  locality: Prov. Yamparaez. Go from Sucre towards Tarabuco. Turn right about 40 km from Sucre, 25 km before Tarabuco, to take road to Sotomayor. 6 km from this turn-off. Among stones by field and on roadside.  latitude: 19 deg. 12 min.  longitude: 65 deg. 10 min.  elevation: 2880m.  remarks: Collection was a single berry.  Annual.  Wild.  Seed.

PI 545921  Solanum tarijense Hawkes SOLANACEAE

PI 545922  Solanum tarijense Hawkes SOLANACEAE

613
PI 545923 Solanum tarijense Hawkes SOLANACEAE
origin: Bolivia. collected: March 09, 1986. collector id: HAO 060. locality: Prov. Yamparez. 10 km beyond the turn-off from the Sucre-Tarabuco road towards Sotomayor. 3.7 km beyond junction of road to Escana. On edges of fields and around stone piles in fields. latitude: 19 deg. 15 min.. longitude: 65 deg. 10 min.. elevation: 2640m. Annual. Wild. Seed.

PI 545924 Solanum tarijense Hawkes SOLANACEAE

PI 545925 Solanum toralapanum Cardenas & Hawkes SOLANACEAE

PI 545926 Solanum toralapanum Cardenas & Hawkes SOLANACEAE

PI 545927 Solanum toralapanum Cardenas & Hawkes SOLANACEAE
PI 545928 Solanum toralapanum Cardenas & Hawkes SOLANACEAE
green: Bolivia. collected: April 09, 1986. collector
id: HAO 174. locality: Prov. Chapare. 9 km from the
turn-off at Aguirre from the Cochabamba-Chapare road.
Past new dams which are part of the hydroelectric project
at Korani. Growing on edges of oca fields. latitude: 17
deg. 18 min. longitude: 65 deg. 44 min. elevation:
3500m. Annual. Wild. Seed.

PI 545929 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE
green: Bolivia. collected: March 09, 1986. collector
id: HAO 063. locality: Prov. Yamparez. Cota. 9 km from
the junction of the Sucre-Tarabuco road on the way to
Sotomayor. Growing as a weed in maize fields. latitude:
19 deg. 15 min. longitude: 65 deg. 10 min. elevation:
2550m. Annual. Wild. Seed.

PI 545930 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE
green: Bolivia. collected: March 28, 1986. collector
id: HAO 144. locality: Prov. Arani. Toralapa Experiment
Station, 2 km off the Cochabamba-Santa Cruz road, turning
at km 71. latitude: 17 deg. 26 min. longitude: 65 deg.
28 min. elevation: 3490m. remarks: True seeds of the
cultivated variety "Huaycha pacena". Annual. Wild.
Seed.

PI 545931 to 546033. Potato species

Donated by: Bamberg, John, Inter-Regional Potato Into. Station,
USDA-ARS, Peninsula Experiment Station, Sturgeon Bay, Wisconsin,
United States. remarks: Potato species (Solanum spp.) from Bolivia.
Received April 05, 1987.

PI 545931 Solanum acaule Bitter subsp. acaule SOLANACEAE
green: Bolivia. collected: March 11, 1987. collector
km from Kami on road to Cruze de Challa. 54 km before
reaching the paved road. Next to the village cafe. On
open slope. latitude: 17 deg. 28 min. longitude: 66
deg. 48 min. elevation: 3820m. remarks: Two plants
which were beginning to form berries were dug up and
PI 545932 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545933 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545934 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545935 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545936 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545937 Solanum acaule Bitter subsp. acaule SOLANACEAE
PI 545938  Solanum acaule Bitter subsp. acaule SOLANACEAE  

PI 545939  Solanum acaule Bitter subsp. acaule SOLANACEAE  

PI 545940  Solanum acaule Bitter subsp. acaule SOLANACEAE  
origin: Bolivia.  collected: March 18, 1987.  collector id: HOHL 207.  locality: Prov. Omasuyos. Tare. 3.3 km from Huarisata on the road to Escoma (not the usual road from Achacachi to Escoma, but an alternate route used when the lake covers parts of the main road). At the foot of an adobe wall near irrigation ditch.  latitude: 15 deg. 56 min..  longitude: 68 deg. 38 min..  elevation: 3940m.  Annual.  Wild.  Seed.

PI 545941  Solanum acaule Bitter subsp. acaule SOLANACEAE  

PI 545942  Solanum acaule Bitter subsp. acaule SOLANACEAE  

PI 545943  Solanum acaule Bitter subsp. acaule SOLANACEAE  
PI 545944 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545945 Solanum acaule Bitter subsp. acaule SOLANACEAE
origin: Bolivia. collected: March 25, 1987. collector id: HOHL 228. locality: Prov. Aroma. 9 km from Konani on the road to Quime. At the foot of an adobe wall and as a weed in quinoa and broadbean fields. latitude: 17 deg. 20 min. longitude: 67 deg. 24 min. elevation: 3920m. remarks: Extremely abundant. The air was filled with the odor of the ripening berries covering the ground. Annual. Wild. Seed.

PI 545946 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545947 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545948 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545949 Solanum acaule Bitter subsp. acaule SOLANACEAE
PI 545950 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545951 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545952 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545953 Solanum acaule Bitter subsp. acaule SOLANACEAE
origin: Bolivia. collected: April 06, 1987. collector id: HOHL 285. locality: Prov. Azurduy. 30 km beyond Torre Pampa junction, 20 km before Cruz Kasa on road to Azurduy. Near cliffs 200m above road. Cliff base where cattle shelter. Among Blumenbachia and other vegetation where ground is heavily manured. latitude: 19 deg. 34 min.. longitude: 64 deg. 39 min.. elevation: 3730m. remarks: Most vines dead. Berries from HOHL 286 may have been mixed with this collection. Annual. Wild. Seed.

PI 545954 Solanum acaule Bitter subsp. acaule SOLANACEAE
origin: Bolivia. collected: April 06, 1987. collector id: HOHL 291. locality: Prov. Azurduy. About 22 km beyond the Torre Pampa junction on the way to Azurduy. About 0.5 km along the cliffs in the direction of Tarabuco. Base of cliffs in manured soil where cattle take shelter. latitude: 19 deg. 31 min.. longitude: 64 deg. 41 min.. elevation: 3730m. remarks: Plants completely dried, but two very mature berries found, turning orange. Large and conical. Annual. Wild. Seed.
PI 545955 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545956 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545957 Solanum acaule Bitter subsp. acaule SOLANACEAE

PI 545958 Solanum arnezii Cardenas SOLANACEAE

PI 545959 Solanum astleyi Hawkes & Hjert. SOLANACEAE
PI 545960  Solanum berthaultii Hawkes SOLANACEAE

PI 545961  Solanum berthaultii Hawkes SOLANACEAE
origin: Bolivia. collected: March 14, 1987. collector id: HOHL 195. locality: Prov. Tapacari. At the junction Cruze de Challa, where the road to Independencia leaves the Cochabamba to Confital road at Km 94.5. Among stones on steep escarpment inaccessible to livestock. latitude: 17 deg. 38 min.. longitude: 66 deg. 42 min.. elevation: 3950m. remarks: Deep purple flowers, small plants, most of which were still just beginning to form berries. Annual. Wild. Seed.

PI 545962  Solanum berthaultii Hawkes SOLANACEAE

PI 545963  Solanum boliviense Dunal SOLANACEAE

PI 545964  Solanum boliviense Dunal SOLANACEAE
PI 545965 Solanum boliviense Dunal SOLANACEAE
origin: Bolivia. collected: April 04, 1987. collector id: HOHL 278. locality: Prov. Saavedra. 1 km from Mojotorillo (about 6 km from Betanzos) on the way to Sucre. Growing as a weed in a cultivated potato field. latitude: 19 deg. 29 min.. longitude: 65 deg. 27 min.. elevation: 3120m. remarks: Only ca. 15 cm tall, but often with mature berries. Simple, round tipped leaves. Fruit dark green with white spots. Annual. Wild. Seed.

PI 545966 Solanum boliviense Dunal SOLANACEAE
origin: Bolivia. collected: April 04, 1987. collector id: HOHL 279. locality: Prov. Saavedra. 1 km from Mojotorillo (about 6 km from Betanzos) on the way to Sucre. Weed in and near a barley field. latitude: 19 deg. 29 min.. longitude: 65 deg. 27 min.. elevation: 3120m. remarks: Distinguished from HOHL 278 by less pigmentation and absence of white spots on berries. Annual. Wild. Seed.

PI 545967 Solanum brevicaule Bitter SOLANACEAE

PI 545968 Solanum brevicaule Bitter SOLANACEAE

PI 545969 Solanum brevicaule Bitter SOLANACEAE
PI 545970  Solanum brevicaule Bitter SOLANACEAE

PI 545971  Solanum brevicaule Bitter SOLANACEAE

PI 545972  Solanum candolleianum Berthault SOLANACEAE

PI 545973  Solanum capsicii-baccatum Cardenas SOLANACEAE

PI 545974  Solanum circaeifolium subsp. quimense Hawkes & Hjert. SOLANACEAE
origin: Bolivia.  collected: March 25, 1987.  collector id: HOHL 226.  locality: Prov. Inquisivi. 5 km from Quime on road to Pongo. Moist places in shade of shrubs or in moss on top of or between large boulders in ruins in the forest.  latitude: 17 deg. 04 min..  longitude: 67 deg. 16 min..  elevation: 3380m.  remarks: Berries elongated, becoming whitish and/or with purple stripes as they matured. White, stellate flowers.  Annual.  Wild.  Seed.
PI 545975 Solanum gourlayi subsp. pachytrichum (Hawkes) Hawkes & Hjert. SOLANACEAE

PI 545976 Solanum gourlayi subsp. pachytrichum (Hawkes) Hawkes & Hjert. SOLANACEAE

PI 545977 Solanum gourlayi subsp. pachytrichum (Hawkes) Hawkes & Hjert. SOLANACEAE

PI 545978 Solanum gourlayi subsp. pachytrichum (Hawkes) Hawkes & Hjert. SOLANACEAE
PI 545979 Solanum gourlayi subsp. pachytrichum (Hawkes) Hawkes & Hjert. SOLANACEAE

PI 545980 Solanum hybrid SOLANACEAE

PI 545981 Solanum hybrid SOLANACEAE

PI 545982 Solanum hybrid SOLANACEAE

PI 545983 Solanum hybrid SOLANACEAE
origin: Bolivia. collected: April 05, 1987. collector id: HOHL 281. locality: Prov. Zudanez. 30 km from Tarabuco on the road to Icla. 200-300 m to the upper side of the roadway, over the hilltop. Among molle and spiny vegetation, e.g., columnar cactus. latitude: 19 deg. 16 min.. longitude: 64 deg. 53 min.. elevation: 3000m. remarks: Vines dead. Two berries found on ground were round, green. Annual. Wild. Seed.
PI 545984 Solanum leptophyes Bitter SOLANACEAE
origin: Bolivia. collected: March 26, 1987. collector id: HOHL 229. locality: Prov. Cercado. 12.6 km from Oruro on the road to Sacaca. In recesses and narrow ravines leading up a cliff and on the wall of a dam. Only where inaccessible to grazing animals. latitude: 17 deg. 58 min.. longitude: 66 deg. 56 min.. elevation: 3860m. remarks: Leaves narrow, pubescent, with greyish tinge. Berries round, green. Local girl said the flowers were purple. Annual. Wild. Seed.

PI 545985 Solanum leptophyes Bitter SOLANACEAE

PI 545986 Solanum leptophyes Bitter SOLANACEAE
origin: Bolivia. collected: March 26, 1987. collector id: HOHL 231. locality: Prov. Cercado. 12.6 km from Oruro on the road to Sacaca. Between a cliff and cultivated field. Growing among muna-muna scrub brush, the strong odor of which repells grazing animals. latitude: 17 deg. 58 min.. longitude: 66 deg. 56 min.. elevation: 3860m. remarks: Like S. andigena, but not cultivated. Flowers said to be purple, fruit round. Local names "apharuma" and "papa quipa". Annual. Wild. Seed.

PI 545987 Solanum leptophyes Bitter SOLANACEAE
PI 545988 Solanum leptophyes Bitter SOLANACEAE
origin: Bolivia. collected: March 27, 1987. collector id: HOHL 237. locality: Prov. Ibanes near Sacaca, hill behind flour mill. Street leading to river from NE corner of main plaza about 1.5 km below town. About 1 km down river from HOHL 236 in well protected places by river and in abandoned flour mill. latitude: 18 deg. 01 min.. longitude: 66 deg. 22 min.. elevation: 3680m. remarks: Blue flowers. Plants had been grazed by livestock. Annual. Wild. Seed.

PI 545989 Solanum leptophyes Bitter SOLANACEAE

PI 545990 Solanum leptophyes Bitter SOLANACEAE

PI 545991 Solanum leptophyles Bitter SOLANACEAE

PI 545992 Solanum leptophyles Bitter SOLANACEAE

PI 545993 Solanum leptophyles Bitter SOLANACEAE
origin: Bolivia. collected: March 27, 1987. collector id: HOHL 244. locality: Prov. Ibanes. Near Sacaca. Near the flour mill complex by the river below the town. Same location as HOHL 236. At the foot of a rock wall at the edge of a cultivated field. latitude: 18 deg. 01 min.. longitude: 66 deg. 22 min.. elevation: 3680m. remarks: Berries are less elongate than those of HOHL 236, and have white spots. Some pigmentation on stem. Annual. Wild. Seed.
PI 545994 Solanum leptophyes Bitter SOLANACEAE  
**origin:** Bolivia. **collected:** March 27, 1987. **collector id:** HOHL 245. **locality:** Prov. Ibanes. Near Sacaca. Near the flour mill complex by the river below the town. Growing between a ditch and a stone wall. **latitude:** 18 deg. 01 min. **longitude:** 66 deg. 22 min. **elevation:** 3680m. **remarks:** Berries round, most with white spots. Somewhat variable. Annual. Wild. Seed.

PI 545995 Solanum leptophyes Bitter SOLANACEAE  
**origin:** Bolivia. **collected:** March 27, 1987. **collector id:** HOHL 247. **locality:** Prov. Ibanes. 1.6 km from Sacaca on road to Oruro. About 50 m above the road. At the edge of a cultivated field at the foot of a stone wall by a stream. **latitude:** 18 deg. 01 min. **longitude:** 66 deg. 23 min. **elevation:** 3700m. **remarks:** Plants wilting, but with many elongate berries. Locally abundant because whole area is protected from grazing. Annual. Wild. Seed.

PI 545996 Solanum leptophyes Bitter SOLANACEAE  
**origin:** Bolivia. **collected:** March 27, 1987. **collector id:** HOHL 248. **locality:** Prov. Ibanes. 1.6 km from Sacaca on road to Oruro. About 50 m above the roadway. At the edge of a cultivated field at the foot of a stone wall by a stream. **latitude:** 18 deg. 01 min. **longitude:** 66 deg. 23 min. **elevation:** 3700m. **remarks:** Berries elongate but distinguished from HOHL 247 by white spots. Annual. Wild. Seed.

PI 545997 Solanum leptophyes Bitter SOLANACEAE  
**origin:** Bolivia. **collected:** March 27, 1987. **collector id:** HOHL 249. **locality:** Dept. Ibanes. 1.6 km from Sacaca on road to Oruro. About 50 m above the roadway. At the edge of a cultivated field at the foot of a stone wall by a stream. **latitude:** 18 deg. 01 min. **longitude:** 66 deg. 23 min. **elevation:** 3700m. **remarks:** Distinguished from HOHL 247, 248 by round berries. Annual. Wild. Seed.

PI 545998 Solanum megistacrolobum Bitter SOLANACEAE  
**origin:** Bolivia. **collected:** March 27, 1987. **collector id:** HOHL 251. **locality:** Prov. Ibanes. Near Pacachani village, 18.2 km from Sacaca on road to Oruro. On the lower side of the road with many stone fences. At edges of cultivated fields and among tola shrubs. **latitude:** 18 deg. 00 min. **longitude:** 66 deg. 26 min. **elevation:** 3900m. Annual. Wild. Seed.
PI 545999 Solanum megistacrolobum Bitter SOLANACEAE
origin: Bolivia. collected: April 07, 1987. collector
id: HOHL 293. locality: Prov. Zudanez. In a quebrada
(gulch) behind the sheep station at Corralon Mayu. In
heavy grass on a steep slope. latitude: 19 deg. 27 min..
longitude: 64 deg. 44 min. elevation: 3450m. 
remarks: Odor typical of megistacrolobum. Berries with

PI 546000 Solanum megistacrolobum Bitter SOLANACEAE
origin: Bolivia. collected: April 07, 1987. collector
id: HOHL 295. locality: Prov. Azurduy. Several hundred
meters over the ridge behind the sheep station at
Corralon Mayu. latitude: 19 deg. 27 min. longitude: 64
deg. 44 min. elevation: 3350m. remarks: Local name
"pisco papa". Pubescent with megistacrolobum odor. No
Wild. Seed.

PI 546001 Solanum sp. SOLANACEAE
origin: Bolivia. collected: March 24, 1987. collector
id: HOHL 222. locality: Prov. Inquisivi. 11 km from
Quime on the way to Inquisivi. Around and in stone
enclosures. latitude: 16 deg. 58 min. longitude: 67
deg. 11 min. elevation: 2900m. remarks: Vines dead but
two berries found with help of a local boy. Annual.
Wild. Seed.

PI 546002 Solanum sp. SOLANACEAE
origin: Bolivia. collected: April 06, 1987. collector
id: HOHL 283. locality: Prov. Azurduy. 37-38 km beyond
the Torre Pampa junction on the Tarabuco-Azurduy road
(about 127 km beyond Tarabuco, or 100 km before Azurduy).
Some distance from the road, following the cliff
formations. latitude: 19 deg. 36 min. longitude: 64
deg. 37 min. elevation: 3450m. remarks: Pubescent
leaves and stems with purple pigmentation. Fruit conical,
distinctly pointed, with white flecks. Annual. Wild.
Seed.

PI 546003 Solanum sp. SOLANACEAE
origin: Bolivia. collected: April 06, 1987. collector
id: HOHL 286. locality: Prov. Azurduy. 30 km beyond the
Torre Pampa junction, 20 km before Cruz Kasa on road to
Azurduy. Near cliffs 200m above road. Cliff base where
cattle shelter. Among Blumenbachia and other vegetation
where ground is heavily manured. latitude: 19 deg. 34
min. longitude: 64 deg. 39 min. elevation: 3730m.
remarks: Equal to HAO 163 (hoopesii x ugentii) collected
in 1986? Berries conical, large deep purple flowers, long
PI 546004  Solanum sp. SOLANACEAE
origin: Bolivia. collected: April 06, 1987. collector id: HOHL 287. locality: Prov. Azurduy. 30 km beyond Torre Pampa jct., 20 km before Cruz Kasa, on road to Azurduy. 1 km along cliffs towards Tarabuco. Cliff base with columnar cacti, Blumenbachia, etc. in manured soil. Many Viscachas nearby may spread seed. latitude: 19 deg. 34 min. longitude: 64 deg. 39 min. elevation: 3730m. remarks: Berries more round, with less white, than those of HOHL 286. Annual. Wild. Seed.

PI 546005  Solanum sp. SOLANACEAE
origin: Bolivia. collected: April 09, 1987. collector id: HOHL 301. locality: Prov. Yamparaez. Chinkana Mayu. 11.5 km from Tarabuco on the road to Icla. On property of Mr. Erasmo Quispe. In maize field and between maize and barley fields on very steep slope on bare ground. latitude: 19 deg. 14 min. longitude: 64 deg. 54 min. elevation: 3050m. remarks: Vines dead. Annual. Wild. Seed.

PI 546006  Solanum sparsipilum (Bitter) Juz. & Buk. SOLANACEAE

PI 546007  Solanum sparsipilum (Bitter) Juz. & Buk. SOLANACEAE

PI 546008  Solanum sucrense Hawkes SOLANACEAE
origin: Bolivia. collected: April 05, 1987. collector id: HOHL 280. locality: Prov. Yamparaez. 15 km south of Tarabuco on road to Icla (25 km before Icla). 200 m beyond the Escuela San Jose de Paredon. Among stones on retaining wall on edge of wheat field. latitude: 19 deg. 15 min. longitude: 64 deg. 53 min. elevation: 3000m. remarks: Vines dead. Stems winged with some purple pigmentation. Berries found on ground were round, green. Annual. Wild. Seed.

630
PI 546009  Solanum toralapanum Cardenas & Hawkes SOLANACEAE

PI 546010  Solanum toralapanum Cardenas & Hawkes SOLANACEAE

PI 546011  Solanum toralapanum Cardenas & Hawkes SOLANACEAE

PI 546012  Solanum toralapanum Cardenas & Hawkes SOLANACEAE

PI 546013  Solanum toralapanum Cardenas & Hawkes SOLANACEAE

PI 546014  Solanum toralapanum Cardenas & Hawkes SOLANACEAE
origin: Bolivia.  collected: March 17, 1987.  collector id: HOHL 200.  locality: Prov. Loayza. 11.2 km from Ayo Ayo on the road to Caracato. Near Pomasara (there are two Pomasaras on this road--this was the upper one). In a small ravine. latitude: 17 deg. 03 min..  longitude: 67 deg. 53 min.. elevation: 3960m.  remarks: Common.  Annual.  Wild.  Seed.
PI 546015  Solanum toralapanum Cardenas & Hawkes  SOLANACEAE
origin: Bolivia.  collected: April 06, 1987.  collector id: HOHL 282.  locality: Prov. Azurduy. 37-38 km beyond the turn-off to Torre Pampa on the Tarabuco-Azurduy road (about 127 km beyond Tarabuco, or 100 km before Azurduy). In a quebrada (gulch) surrounded by cliffs where inaccessible to grazing livestock.  latitude: 19 deg. 36 min..  longitude: 64 deg. 37 min..  elevation: 3450m.  remarks: Small, maturing plants with simple, ovate leaves. Berries round to slightly elongate, light green, flecked with white. Annual. Wild. Seed.

PI 546016  Solanum tuberosum subsp. andigena Hawkes  SOLANACEAE

PI 546017  Solanum tuberosum subsp. andigena Hawkes  SOLANACEAE

PI 546018  Solanum tuberosum subsp. andigena Hawkes  SOLANACEAE

PI 546019  Solanum tuberosum subsp. andigena Hawkes  SOLANACEAE
PI 546020 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE  

PI 546021 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE  

PI 546022 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE  

PI 546023 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE  

PI 546024 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE  

PI 546025 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE  
PI 546026 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE
origin: Bolivia. collected: April 02, 1987. collector id: HOHL 263. locality: Prov. Oropesa. Tranca Cocha. 29 km from the checkpoint leaving Sucre going toward Ravelo. Cultivated. latitude: 18 deg. 56 min.. longitude: 65 deg. 23 min.. elevation: 3200m. remarks: Called "Manzana". May have been more than one variety in the plot from which seeds were taken. Annual. Wild. Seed.

PI 546027 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE

PI 546028 Solanum tuberosum subsp. andigena Hawkes SOLANACEAE

PI 546029 Solanum ugentii Hawkes & Okada SOLANACEAE
origin: Bolivia. collected: April 06, 1987. collector id: HOHL 284. locality: Prov. Azurduy. 37-38 km beyond the turn-off to Torre Pampa on the Tarabuco-Azurduy road (about 127 km beyond Tarabuco, or 100 km before Azurduy). In a gulch by cliffs. latitude: 19 deg. 36 min.. longitude: 64 deg. 37 min.. elevation: 3450m. remarks: Berries less white than HOHL 283. Stem with straight wings. Leaves pubescent, terminal varying from round to pointed. Annual. Wild. Seed.

PI 546030 Solanum ugentii Hawkes & Okada SOLANACEAE
origin: Bolivia. collected: April 06, 1987. collector id: HOHL 288. locality: Prov. Azurduy. 30 km beyond the Torre Pampa junction, 20 km before Cruz Kasa, on the road to Azurduy. About 2 km along the cliffs in the direction of Tarabuco. latitude: 19 deg. 33 min.. longitude: 64 deg. 39 min.. elevation: 3740m. remarks: Berries round, green, with no white spots. Annual. Wild. Seed.
PI 546031 Solanum ugentii Hawkes & Okada SOLANACEAE
origin: Bolivia. collected: April 06, 1987. collector
id: HOHL 289. locality: Prov. Azurduy. About 22 km
beyond the Torre Pampa junction on the way to Azurduy.
Base of cliffs in manured soil where cattle take shelter.
Home of many viscachas which may spread seed. latitude:
19 deg. 31 min.. longitude: 64 deg. 41 min.. elevation:
3730m. remarks: Some berries slightly conical,
white-spotted. Deep purple flowers. First laterals

PI 546032 Solanum ugentii Hawkes & Okada SOLANACEAE
origin: Bolivia. collected: April 06, 1987. collector
id: HOHL 290. locality: Prov. Azurduy. About 22 km
beyond the Torre Pampa junction on the way to Azurduy.
About 0.5 km along the cliffs in the direction of
Tarabuco. Base of cliffs in manured soil where cattle
take shelter. latitude: 19 deg. 31 min.. longitude: 64
deg. 41 min.. elevation: 3730m. remarks: Berries
round, with no white spots. Purple, pentagonal flowers,
Pubescent foliage. Indistinct articulation, high.
Annual. Wild. Seed.

PI 546033 Solanum ugentii Hawkes & Okada SOLANACEAE
origin: Bolivia. collected: April 09, 1987. collector
id: HOHL 298. locality: Prov. Yamparaez. Miska Mayu. 10
km south of Tarabuco on road to Icla. Lower side of
the road. On the lower edge of a very steep slope of loose
stones. At the edge of a potato field. latitude: 19 deg.
33 min.. longitude: 64 deg. 55 min.. elevation:
3000m. Annual. Wild. Seed.

PI 546034. Avena sativa L. POACEAE Common oat

Donated by: Forsberg, R.A., Wisconsin Agr. Exp. Sta., University of
Wisconsin, Madison, Wisconsin, United States. remarks: Wright Oat.
Received November 20, 1990.
PI 546034-continued


PI 546035. Avena sativa L. POACEAE Common oat


PI 546036. Avena sativa L. POACEAE Common oat

PI 546036-continued


PI 546037. Avena sativa L. POACEAE Common oat


PI 546038. Glycine max (L.) Merr. FABACEAE Soybean

PI 546038-continued


PI 546039 to 546045. Glycine max (L.) Merr. FABACEAE Soybean


PI 546043  
**origin:** Canada.  **origin institute:** Plant Res. Ctr. -- Agriculture Canada, Ottawa, Ontario K1A OC6.  
**cultivar:** OT89-05.  **pedigree:** PI 438477/2*Evans/2/7*L62-667.  
**other id:** GS-7.  **group:** CSR-SOYBEAN.  
**remarks:** Insensitive to fluorescent daylength and incandescent long daylength. Maturity group 00-I. Genetic Material. Seed.

PI 546044  
**origin:** Canada.  **origin institute:** Plant Res. Ctr. -- Agriculture Canada, Ottawa, Ontario K1A OC6.  
**cultivar:** OT89-06.  **pedigree:** OT89-05//L67-153.  
**other id:** GS-8.  **group:** CSR-SOYBEAN.  
**remarks:** Insensitive to fluorescent daylength and incandescent long daylength. Maturity group 00-I. Genetic Material. Seed.

PI 546045  
**origin:** Canada.  **origin institute:** Plant Res. Ctr. -- Agriculture Canada, Ottawa, Ontario K1A OC6.  
**cultivar:** OT89-07.  **pedigree:** PI 438477/2*Evans/5*Evans-e3.  
**other id:** GS-9.  **group:** CSR-SOYBEAN.  
**remarks:** Insensitive to fluorescent daylength and incandescent long daylength. Maturity group 00-I. Genetic Material. Seed.

PI 546046 to 546053. Glycine max (L.) Merr. FABACEAE Soybean

**Donated by:** Voldeng, H.D., Plant Res. Ctr. -- Agriculture Canada, Ottawa, Ontario, Canada.  
**remarks:** Soybean Genetic Stocks, GS-10 to GS-17. Received November 20, 1990.

PI 546046  
**origin:** Canada.  **origin institute:** Plant Res. Ctr. -- Agriculture Canada, Ottawa, Ontario K1A OC6.  
**cultivar:** OT89-08.  **pedigree:** L67-153/7*Maple Presto.  
**other id:** GS-10.  **group:** CSR-SOYBEAN.  
**remarks:** Indeterminate growth habit. Can be used in agronomic or physiological studies where genetic background has to be minimal. Genetic Material. Seed.

PI 546047  
**origin:** Canada.  **origin institute:** Plant Res. Ctr. -- Agriculture Canada, Ottawa, Ontario K1A OC6.  
**cultivar:** OT89-09.  **pedigree:** L67-153/7*Maple Presto.  
**other id:** GS-11.  **group:** CSR-SOYBEAN.  
**remarks:** Determinate growth habit. Can be used in agronomic or physiological studies where genetic background has to be minimal. Genetic Material. Seed.

PI 546048  
**origin:** Canada.  **origin institute:** Plant Res. Ctr. -- Agriculture Canada, Ottawa, Ontario K1A OC6.  
**cultivar:** OT89-10.  **pedigree:** OX611/8*Maple Presto.  
**other id:** GS-12.  **group:** CSR-SOYBEAN.  
**remarks:** Leaflet ovate. Can be used in agronomic or physiological studies where genetic background has to be minimal. Genetic Material. Seed.


PI 546054. Glycine max (L.) Merr. FABACEAE Soybean

PI 546054-continued


Breeding Material. Seed.

PI 546055. Humulus lupulus L. CANNABACEAE Hop


Cultivar. Plant.

PI 546056 to 546057. Triticum aestivum L. POACEAE Common wheat


PI 546057  
**origin:** United States. **cultivar:** IDAHO DNSC-0.  
**pedigree:** Twenty-one preliminary lines from Univ. of Idaho spring wheat program, 8 advanced breeding lines, 11 cultivars and 1 near-isogenic line of Chris carrying dominant male sterile gene derived from Aegilops squarrosa. **remarks:** Idaho Dark Northern Spring Population, Cycle 0. Random, mated, spring population developed using dominant gene conferring male sterility. Base population for recurrent selection and quantitative genetics research. Parents selected for stiff straw, good grain yield, and adaptation to Southeastern Idaho. Spring Annual. Breeding Material. Seed.

PI 546058. *Panicum validum* POACEAE

**Donated by:** Zuloaga, F.O., Instituto Botanica Darwinion, Labardem 200-C.C. No. 22, 1642 - San Isidro, Provide Bs. As., Argentina.  
Received December 17, 1986.

**donor id:** 2493. **origin:** Argentina. **collector id:** 2493. **other id:** BE-1022. **other id:** Q 26645. Plant.

PI 546059. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

**Donated by:** Duncan, R.R., Georgia Agr. Exp. Sta., University of Georgia, Griffin, Georgia, United States. Received December 10, 1990.

**origin:** United States. **cultivar:** GP11BR. **pedigree:** Initial F2/F3 segregating progeny from combinations of 1 or 2 of following converted international sorghums: IS1201, 1269, 1303, 1335, 1598, 2462, 2549, 2856, 3574, 7142, 7173, 7542, 8337, 12564, 12568, 12612, 12637, 12666, 17459. **remarks:** Tolerant to simultaneous applications involving 2X rates (9.35 L ha-1) of metolachlor or alachlor without use of herbicide antidotes and in combination with atrazine. Three-dwarf (combine height). Seeds red and white. Panicles open to semi-open. Intermediate to high tolerance to anthracnose caused by Colletotrichum graminicola. Adapted to tropical and subtropical regions. Annual. Breeding Material. Seed.

PI 546060. *Triticum turgidum* L. POACEAE Durum wheat

**Donated by:** McLeod, J.G., Swift Current Res. Sta., Agriculture Canada, Swift Current, Saskatchewan, Canada. **remarks:** DT367 Durum Germplasm. Received December 10, 1990.
PI 546060-continued


PI 546061. X Pseudoroelymus sp. POACEAE

Donated by: Asay, K.H., Agricultural Research Service -- USDA, Utah State University, Logan, Utah, United States; and Soil Conservation Service -- USDA; and Utah Agr. Exp. Sta.. remarks: SL-1 Wheatgrass Hybrid. Received December 10, 1990.


PI 546062. Allium ampeloprasum L. LILIACEAE Leek


PI 546063 to 546064. Allium ampeloprasum L. LILIACEAE Leek


PI 546065. Allium ampeloprasum L. LILIACEAE Leek

Donated by: Seed Res. Spec, California, United States. Received 1961.

origin: United States. cultivar: GIANT MUSSELBURG. remarks: Maturity 150 days. Leaves medium green. Stems long, 8-1/2 to 9 inches by 2 inches thick. Large and mild. Fall and winter use. Cultivated. Seed.

PI 546066. Allium ampeloprasum L. LILIACEAE Leek


origin: United States. cultivar: BROAD LONDON OR AMERICAN FLAG. Cultivated. Seed.

PI 546067. Allium ampeloprasum L. LILIACEAE Leek

Donated by: Asgrow Seed Company, Michigan, United States. Received 1961.

origin: United States. cultivar: LARGE AMERICAN FLAG. remarks: Maturity 150 days. Stems long, 8-10 inches, slender, by 1-1/2 inches thick. Leaves large, medium green. Cultivated. Seed.

PI 546068. Allium ampeloprasum L. LILIACEAE Leek

Donated by: Sluis & Groot, P.O. Box 13-1600aa, Enkhuizen, Holland. Received 1961.

PI 546069. Allium ampeloprasum L. LILIACEAE Leek

**Donated by:** Joseph Harris Company, Inc., Moreton Farm, Rochester, New York, United States. Received 1963.


PI 546070. Allium cepa L. LILIACEAE Onion

**Donated by:** Dessert Seed, California, United States. Received 1960.


PI 546071 to 546082. Allium cepa L. LILIACEAE Onion

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


PI 546071 to 546082-continued

PI 546076  
**origin:** United States.  **origin institute:** Texas Agr. Exp. Sta., Texas.  **cultivar:** B 02264 B PRR (TEX).  **remarks:** Pink root resistance derivative of B 2264 B, the B line of B 2264 (seed parent of F1 hybrid Epoch). Bulb globe shaped, attractive, yellow with well-filled shoulders and base. Should perform similar to B 2664 B except superior where the Texas strain of pink root is a problem. Cultivated. Seed.

PI 546077  
**origin:** United States.  **cultivar:** B 12115 C.  **remarks:** Bulb globe shaped, brown. Short day type. Cultivated. Seed.

PI 546078  
**origin:** United States.  **cultivar:** L 303 A.  **pedigree:** Male-sterile or seed parent is a selection from Eclipse. Pollen parent, B 1410 is from cross between TEG 951 and Crystal Grano.  **remarks:** Intermediate resistance to pink root. Highly infested pink root soil should be avoided. Matures about 7-10 days later than Granex. Bulb thick, flat, intermediate shape between 2 parents. Stores well under dry well-aerated conditions. Cultivated. Seed.

PI 546079  
**origin:** United States.  **origin institute:** USDA.  **cultivar:** L 303 B.  **pedigree:** Male sterile or seed parent is a selection from Eclipse. Pollen parent, B 1410 is selection out of an F2 population from Texas Early Grano 951 and Crystal Grano. Cultivated. Seed.

PI 546080  

PI 546081  
**origin:** United States.  **cultivar:** YB 986 A.  **pedigree:** Single cross. Male sterile or seed parent selection from Excel and similar except male sterile. Pollen parent TEG 951.  **remarks:** Color light yellow. Shape thick flat intermediate between 2 parents. Flavor exceptionally mild. Adapted to South Texas, South California, South Arizona and same latitude locations. Stores significantly better than other hybrids tested. Cultivated. Seed.
PI 546082

**origin:** United States. **cultivar:** YB 986 B. **pedigree:** Single cross. Male sterile or seed parent selection from Excel and similar except male sterile. Pollen parent is TEG 951. **remarks:** Single cross. Male sterile or seed parent selection from Excel and similar except male sterile. Pollen parent is TEG 951. Color light yellow. Shape thick flat intermediate between 2 parents. Flavor exceptionally mild. Adapted to South Texas, South California, South Arizona and same latitude locations. Stores significantly better than other hybrids tested. Cultivated. Seed.

PI 546083. Allium cepa L. LILIACEAE Onion

**Donated by:** Wisconsin Agr. Exp. Sta., Wisconsin, United States. Received 1961.

**origin:** United States. **cultivar:** INDIAN QUEEN. **remarks:** Maturity 113 days. Bulb uniform in size, shape and color. Low percentage of peelers and high yield. Storage type selected for growing on muck and peat soils. Skin color very good. Percentage of number 1 bulbs very high. Cultivated. Seed.

PI 546084. Allium cepa L. LILIACEAE Onion

**Donated by:** Idaho Agr. Exp. Sta., Idaho, United States. Received 1961.

**origin:** United States. **cultivar:** B 12115-2 C. **remarks:** Bulb firm, hi-globe. Attractive yellow brown scales that adhere well in storage. Highly uniform in color, size and shape. Phenotype cannot be distinguished from B 12115 C, but widely scattered tests indicate that its hybrid will generally outyield hybrid, in which B 12115 C is pollen parent. Cultivated. Seed.

PI 546085 to 546086. Allium cepa L. LILIACEAE Onion

**Donated by:** T. W. Wood & Sons, Virginia, United States. Received 1961.

**PI 546085**

**origin:** United States. **cultivar:** EXTRA EARLY WHITE PEARL. **remarks:** Maturity 85 days, earliest white onion. Bulbs good size, pearly, tender, mild, best flavor. For spring onions, sow thickly in row during March or early April. Put out sets next fall to make large onions next spring before any other kinds are ready. Splendid for pickling. Cultivated. Seed.
PI 546085 to 546086-continued

**PI 546086**

PI 546087 to 546088. Allium cepa L. LILIACEAE Onion

Donated by: Corneli Seed Company, Missouri, United States. Received 1961.

**PI 546087**

**PI 546088**

PI 546089 to 546097. Allium cepa L. LILIACEAE Onion

Donated by: Ferry-Morse Seed Company, California, United States. Received 1961.

**PI 546089**

**PI 546090**
PI 546091  origin: United States.  
 developer country: United States. 
 origin institute: University of California, Davis, California.  
cultivar: CALRED.  
 remarks: Maturity 95 days. Early, slow bolting which permits fall planting in southern latitudes where they grow through winter and produce bulbs in spring. Bulbs slightly flattened, medium size. Flesh firm, mild. Color very deep purplish-red. Pronounced non-bolting tendency. Adapted to Southern California and South Texas. Cultivated. Seed.

PI 546092  origin: United States.  
 origin institute: University of California, Davis, California.  
cultivar: CALRED EARLY.  

PI 546093  origin: United States.  
 origin institute: USDA-ARS, College Station, Texas. 
cultivar: EARLY CRYSTAL.  

PI 546094  origin: United States.  
 origin institute: Ferry Morris.  
cultivar: EARLY WHITE GRANO.  

PI 546095  origin: United States.  
cultivar: EARLY YELLOW BERMUDA.  

PI 546096  origin: United States.  
cultivar: SOUTHPORT RED GLOBE.  

PI 546097  origin: United States.  
cultivar: STOCKTON YELLOW GLOBE.  
PI 546098. Allium cepa L. LILIACEAE Onion

Donated by: Vaughan-Jacklin Corporation, 5300 Katrine Avenue, Downer's Grove, Illinois, United States. Received 1961.

origin: United States. cultivar: GOLDEN GLOBE. remarks: Winter keeper type. 115 days from seed to bulbs. 90 days from seed to sets. 30 days from sets to bunching or pickling. 80 days from sets to bulbs. Mainly grown from seed or sets. Exceptionally fine yellow globe shape. Excellent keeping quality. Very productive. Cultivated. Seed.

PI 546099 to 546101. Allium cepa L. LILIACEAE Onion

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


PI 546102. Allium cepa L. LILIACEAE Onion


origin: United States. cultivar: RED WEATHERSFIELD. remarks: Maturity 105 days. Large size. Flesh white, lightly tinged with pinkish rose near the skin. Flavor strong. Flattened, deep rich purplish red, smooth, glossy skin. Cultivated. Seed.
PI 546103 to 546107. Allium cepa L. LILIACEAE Onion


PI 546108 to 546116. Allium cepa L. LILIACEAE Onion

Donated by: Seed Res. Spec, California, United States. Received 1961.


PI 546110  origin: United States.  
cultivar: EARLY TEXAS YELLOW GRANO.  

PI 546111  origin: United States.  
cultivar: EARLY YELLOW GRANO TEX 502.  

PI 546112  origin: United States.  
cultivar: GREEN BUNCHING GLOBE.  
remarks: Maturity 95 days. Used as bulbs. Excellent bunching variety. Fine white roots. Cultivated. Seed.

PI 546113  origin: United States.  
cultivar: GREEN BUNCHING WH SWT SPANISH.  
remarks: Maturity late. Bulb mild, white, for green bunching in summer. Stems pure white, grow rapidly. Also used for large late bulbs. Cultivated. Seed.

PI 546114  origin: United States.  
cultivar: SWEET SPANISH COLORADO NO 6.  

PI 546115  origin: United States.  
cultivar: WHITE SWEET SPANISH JUMBO.  
remarks: Maturity 120 days. Bulb very large, white globular. Flesh firm, white, mild. Cultivated. Seed.

PI 546116  origin: United States.  
cultivar: YELLOW SWEET SPANISH UT JUMBO.  

PI 546117. Allium cepa L. LILIACEAE Onion

Donated by: Burrell Seed Growers, Colorado, United States. Received 1961.

origin: United States.  
origin institute: Burrell Seed Growers.  
cultivar: BURRELLS YELLOW VALENCIA.  
remarks: Maturity 115 days. Full globe shape, deep bronze color, large size, and vigorous tops that are slow to ripen down and withstand thrips well. Keeps well. Excellent for shipping. Cultivated. Seed.
PI 546118 to 546129. Allium cepa L. LILIACEAE Onion

**Donated by:** Desert Seed, California, United States. Received 1961.

| PI 546120 | origin: United States. **cultivar:** EXTRA EARLY WHITE SWEET SPANISH. **remarks:** Long day variety. Very early type adapted to more southerly range. Forms mature bulbs when grown under conditions similar to Imperial Valley of California, but has tendency to bolt if planted too early in fall. Bulb slightly top-shaped, shiny. White scales that adhere well in handling. Flesh soft. Flavor very mild. Not suitable for storage. Cultivated. Seed. |
| PI 546121 | origin: United States. **cultivar:** HOME GARDEN BUNCHING. **remarks:** Ideal home garden variety. Exceptional vigor, winter hardiness, heat tolerance, and resistance to smut, yellow dwarf, and pink root. Rapid growth in early spring from overwintered plants, at which time flesh is crisp and mild. Flesh light pinkish tint. Cultivated. Seed. |
| PI 546123 | origin: United States. **cultivar:** IMPERIAL A M D. Cultivated. Seed. |
| PI 546124 | origin: United States. **cultivar:** ITALIAN RED. **remarks:** Very productive. Adapted to Central California as late-intermediate crop for immediate local consumption. Due to high non-bolting habit, can be over-wintered as transplant crop. Bulbs very large, torpedo or long oval shaped, with thin, purplish-red scales. Flesh soft and unexcelled in mildness, sweetness and flavor. Not adapted to humid regions or to the South. Cultivated. Seed. |
PI 546125  origin: United States. origin institute: Dessert Seed. 
cultivar: LONG WHITE SHANK. remarks: Green bunching 
type. Shank long, white. Leaves dark green, keep fresh 
appearance for considerable time after pulling. Flesh 
crisp, mild, and sweet. Cultivated. Seed.

PI 546126  origin: United States. cultivar: RED BERMUDA. remarks: 
Adapted to same region as Yellow Bermuda and Crystal Wax 
and, except for red color, is similar to them in other 
characteristics. Cultivated. Seed.

Sta., Texas. cultivar: TEXAS EARLY GRANO 502. remarks: 
Large, yellow, short day type, almost replaced Early 
Yellow Grano due to uniformity in size and shape, and its 
earliness. Foliage light green, upright, and shows some 
resistance to thrip damage. Bulbs more blocky and less 
top-shaped than Early Yellow Grano. Scales light yellow, 
thin and few in number. Flesh soft, juicy, and mild 
flavor. Not suited for storage. Heavy yielder. 
Cultivated. Seed.

PI 546128  origin: United States. origin institute: Dessert Seed. 
cultivar: WHITE CREOLE. remarks: Used extensively in the 
South for dehydration purposes due to heavy solids 
content and long storage quality. Bulbs small to medium 
size, thick-flat. Several layers of dry scales that 
adhere well during handling and storage. Flesh white, 
pungent. Well suited to machine harvesting. Well adapted 
to area where Yellow Bermuda types grow. Maturity few 
days later than Yellow Bermuda. Cultivated. Seed.

PI 546129  origin: United States. cultivar: YELLOW SWEET SPANISH M 
STRAIN. remarks: Selected for growing in Eastern 
Oregon-Southwest Idaho onion district but should be 
fairly widely adapted. Bulbs globe to high-globe shaped. 
Scales rather tough, dark yellow, adhere fairly well in 
handling and storage. Cultivated. Seed.

PI 546130 to 546131. Allium cepa L. LILIACEAE Onion 

Received 1961.

PI 546130  origin: United States. cultivar: ROCHESTER BRONZE GLOBE. 
Cultivated. Seed.

PI 546131  origin: United States. cultivar: SUPERBRONZE. remarks: 
PI 546132. Allium cepa L. LILIACEAE Onion

**Donated by:** Crookham Company, Idaho, United States. Received 1961.

**origin:** United States. **cultivar:** BRIGHAM YELLOW GLOBE. **pedigree:** Selection from Southport Yellow Globe. Cultivated. Seed.

PI 546133 to 546140. Allium cepa L. LILIACEAE Onion

**Donated by:** Asgrow Seed Company, Michigan, United States. Received 1961.

PI 546133 **origin:** United States. **cultivar:** CRYSTAL GRANO. **remarks:** Maturity 90-95 days. Bulb top-shaped and globular. Will develop into large onion. Skin pure white. Flesh firm. Flavor mild. Early shipping type. Adapted to the Pacific coast, Texas and the Southwestern States generally. Cultivated. Seed.

PI 546134 **origin:** United States. **cultivar:** DOWNING YELLOW GLOBE. **remarks:** Maturity 112 days. Bulb round to globe shape. Skin tough, dark yellow. Medium size. Flesh firm. Yields high percentage of #1 bulbs. Scales adhere well in storage. Flavor pungent. Cultivated. Seed.

PI 546135 **origin:** United States. **cultivar:** EARLY CRYSTAL 281. **remarks:** Maturity 160 days. Primarily for first harvest in earliest onion area. Exceptionally early Crystal Wax type, maturing approx. ten days before Eclipse, producing smaller bulbs. Bulbs medium size, thick-flat. Skin white. Flesh white and mild. Almost free of splitting and bolting. Cultivated. Seed.

PI 546136 **origin:** United States. **cultivar:** EARLY YELLOW GLOBE. **remarks:** Standard early maturing open pollinated variety used in the Northeast and Midwest for midsummer harvest and early shipment. Bulbs medium to medium-large size, full globe to deep globe shape. Flesh medium soft, mildly pungent. Skin attractive yellow. Not suited for prolonged storage, but can be held until late fall or early winter if properly cured. Cultivated. Seed.

PI 546137 **origin:** United States. **cultivar:** EBENEZER. **remarks:** Maturity 105 days. Bulb medium size, thick-flattened, small neck. Skin yellow. Flesh fine textured, mild, very firm. Produces sets of unusual keeping quality which are spring planted to produce early onion bulbs for market. Cultivated. Seed.
PI 546138  origin: United States.  
cultivar: ECLIPSE.  
remarks: 

PI 546139  origin: United States.  
cultivar: EXCEL.  
remarks: 
Maturity 180 days. Heavy yielding variety resembling old Yellow Bermuda, but earlier with less splitting and bolting. Bulbs uniform, thick-flat, medium size. Skins yellow. Flesh white, mild. Cultivated. Seed.

PI 546140  origin: United States.  
cultivar: SAN JOAQUIN.  
remarks: 

PI 546141 to 546150. Allium cepa L. LILIACEAE Onion

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

PI 546141  origin: United States.  
cultivar: B 00126 A.  
remarks: 

PI 546142  origin: United States.  
cultivar: B 00126 B.  
remarks: 

PI 546143  origin: United States.  
cultivar: B 02190 A PRR (TEX).  
pedigree: Pink root resistant derivative of B 2190 (seed parent of F1 hybrid Fiesta).  
remarks: Selection should perform similarly to original strain except where Texas strain of pink root is a problem and then it should be superior. Cultivated. Seed.

PI 546144  origin: United States.  
cultivar: B 02190 B PRR (TEX).  
pedigree: Pink root-resistant derivative of B 2190 (seed parent of F1 hybrid Fiesta).  
remarks: Selection should perform similarly to original strain except where Texas strain of pink root is a problem and then it should be superior. Cultivated. Seed.
PI 546145  
**origin:** United States.  
**cultivar:** B 05546 A WHITE PER.  
**remarks:** Inbred. Bulbs high globe. Flesh fairly firm. Scales adhere well over long storage period. Both A & B lines have been distributed to seed trade and the inbred used extensively in production of hybrids. B 5546 when originally released was heterozygous for white perianth. Selections for white perianth were made, each plant selfed to test for possible segregation and true breeding lines were massed to retain. Cultivated. Seed.

PI 546146  
**origin:** United States.  
**cultivar:** B 05546 B WHITE PER.  
**remarks:** Inbred. Bulbs high globe. Flesh fairly firm. Scales adhere well over long storage period. Both A & B lines have been distributed to seed trade and the inbred used extensively in production of hybrids. B 5546 when originally released was heterozygous for white perianth. Selections for white perianth were made, each plant selfed to test for any possible segregation and true breeding lines were massed to. Cultivated. Seed.

PI 546147  
**origin:** United States.  
**cultivar:** B 12132 A.  
**pedigree:** Utah Sweet Spanish/Brigham Yellow Globe.  

PI 546148  
**origin:** United States.  
**cultivar:** IA 1718 A.  
**pedigree:** Derived from Iowa Yellow Globe 44.  
**remarks:** Inbred tested several years in hybrid combinations, shows promise in certain combinations for specific areas. Combines especially well with B 2215 and B 12115-2, which have been released, as well as unreleased inbreds. Especially desirable due to tight scales, unusual firmness, and superior storage quality. Remained dormant in storage longer than any tested to date (1960). Cultivated. Seed.

PI 546149  
**origin:** United States.  
**cultivar:** IA 1718 B.  
**pedigree:** Derived from Iowa Yellow Globe 44.  
**remarks:** Inbred tested several years in hybrid combinations, shows promise in certain combinations for specific areas. Combines especially well with B 2215 and B 12115-2, which have been released, as well as unreleased inbreds. Especially desirable due to tight scales, unusual firmness, and superior storage quality. Remained dormant in storage longer than others tested. Cultivated. Seed.
PI 546141 to 546150-continued

PI 546150  origin: United States.  cultivar: U 16-3-10-2B.  
pedigree: Inbred derived from Cochise Brown and can be 
          used as seed parent in hybrid onion production.  remarks: 
          Early maturing, long day storage type. Bulb high globe.  
          Flesh moderately firm. Scales dark brown. Combined well 
          with unreleased Spanish inbreds in Utah. Spanish type  
          hybrids involving this line are generally improved in 

PI 546151. Allium cepa L. LILIACEAE  Onion

   Donated by: Pieter-Wheeler Seed Co., California, United States. 
   Received 1962.

   origin: United States.  cultivar: YELLOW GLOBE DANVERS.  
   remarks: Maturity 140 days. Bulbs medium size, round,  
            small necks. Flesh white, with yellowish tint. Solid,  
            crisp, fine texture, medium pungent. Flesh light, creamy. 
            Skin deep yellow. Long day variety. Stores well. Home  
            garden and market use.  Cultivated.  Seed.

PI 546152 to 546153. Allium cepa L. LILIACEAE  Onion

   Donated by: New Mexico Crop Imp. Assoc., New Mexico, United States. 
   Received 1962.

   PI 546152  origin: United States.  cultivar: NEW MEXICO WHITE GRANO 

   PI 546153  origin: United States.  cultivar: NEW MEXICO YELLOW 
             GRANO.  Cultivated.  Seed.

PI 546154. Allium cepa L. LILIACEAE  Onion

   Donated by: Trapp and Sons, Michigan, United States.  Received 1962.

   origin: United States.  cultivar: TRAPPS DOWNING YELLOW 
          GLOBE.  Cultivated.  Seed.

PI 546155 to 546164. Allium cepa L. LILIACEAE  Onion

   Donated by: Rohnert, California, United States.  Received 1963.

   PI 546155  origin: United States.  cultivar: AUSTRALIAN BROWN U C NO 
             5.  remarks: Maturity 100 days. Used for sets, market and  
             storage. Bulb flattened, globe-shaped. Skin tough, thick, 
PI 546156  
origin: United States.  
origin institute: USDA-ARS, Beltsville, Maryland.  
cultivar: BELTSVILLE BUNCHING.  

PI 546157  
origin: United States.  
origin institute: USDA-ARS.  
cultivar: CRYSTAL WHITE WAX L303.  

PI 546158  
origin: United States.  
cultivar: GRANO 502.  

PI 546159  
origin: United States.  
cultivar: GREEN BUNCHING SELECT.  

PI 546160  
origin: United States.  
cultivar: L 036 YELLOW.  

PI 546161  
origin: United States.  
cultivar: S-1 WHITE GRANO.  
Cultivated. Seed.

PI 546162  
origin: United States.  
cultivar: SOUTHPORT YELLOW GLOBE.  

PI 546163  
origin: United States.  
cultivar: WHITE SWEET SPANISH BUNCHING.  
PI 546164  
origin: United States.  
cultivar: YELLOW GRANO.  

PI 546165 to 546170. Allium cepa L. LILIACEAE Onion

Donated by: Ferry-Morse Seed Company, California, United States. Received 1963.

PI 546165  
origin: United States.  
cultivar: AUSTRALIAN BROWN 100.  

PI 546166  
origin: United States.  
cultivar: CRYSTAL WHITE WAX.  
remarks: Maturity 95 days. Used mainly in South Texas and Southern California for fall planting to produce bulbs in spring for early shipment. Bulb very early, flat, small. Skin white. Flesh white, soft, sweet and mild. Cultivated. Seed.

PI 546167  
origin: United States.  
cultivar: EVERGREEN BUNCHING.  
remarks: Maturity 60 days. Home and market garden variety for young or bunching. Produces cluster of 4-6 useful shoots from a single seed in first season. Used only for green onions. Cultivated. Seed.

PI 546168  
origin: United States.  
cultivar: LONG RED ITALIAN.  
remarks: Maturity 120 days. Used in Central California and a few restricted areas elsewhere. Used for fall planting in California where it winters over without bolting to produce an early crop of bulbs. Bulbs long pointed at top and bottom, very large, pale red color. Flesh soft and very mild. Cultivated. Seed.

PI 546169  
origin: United States.  
cultivar: WHITE AUSTRALIAN.  

PI 546170  
origin: United States.  
cultivar: WHITE GRANO.  
remarks: Maturity 100 days. Globes tall, medium size. Skin clear, glistening white. Flesh soft, white and mild, small tops, slow-bolting. Cultivated. Seed.
PI 546171 to 546174. Allium cepa L. LILIACEAE Onion

Donated by: Seed Res. Spec, California, United States. Received 1963.


PI 546175 to 546188. Allium cepa L. LILIACEAE Onion

Donated by: Dessert Seed, California, United States. Received 1963.


PI 546178  origin: United States.  cultivar: L 365.  pedigree: Selection of Crystal Wax/Excel.  remarks: Short day variety. Highly resistant to Texas strain of pink root. Bulbs thick, flat. Scales white. Flavor mild. Excellent heavy root system. Bolts and splits more than desirable, but less than L 690. This can be minimized by planting later. Matures 10-14 days later than L 690. Cultivated. Seed.


PI 546175 to 546188-continued


PI 546189. Allium cepa L. LILIACEAE Onion

Donated by: Joseph Harris Company, Inc., Moreton Farm, Rochester, New York, United States. Received 1963.


PI 546190 to 546192. Allium cepa L. LILIACEAE Onion

Donated by: Asgrow Seed Company, Michigan, United States. Received 1963.


PI 546190 to 546192-continued


PI 546193 to 546197. Allium cepa L.  LILIACEAE  Onion


PI 546198. Allium cepa L.  LILIACEAE  Onion


PI 546199. Allium cepa L.  LILIACEAE  Onion

Donated by: Corneli, Missouri, United States. Received 1964.
PI 546199-continued


PI 546200 to 546201. Allium cepa L. LILIACEAE Onion

Donated by: Pieter-Wheeler Seed Company, California, United States. Received 1964.


PI 546202 to 546205. Allium cepa L. LILIACEAE Onion

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


PI 546205  origin: United States.  cultivar: WALLA WALLA SWEET.  
remarks: Bulbs large, early yellow. Flavor mild. Grown in Walla Walla territory for fall or early spring planting. Hardy against cold weather making them ideal for fall planting to winter over for first crop. Tops short. Cultivated. Seed.

PI 546206. Allium cepa L. LILIACEAE Onion

Donated by: Ferry-Morse Seed Company, California, United States. Received 1964.

origin: United States.  origin institute: University of California, Davis, California.  cultivar: STOCKTON G36B.  

PI 546207. Allium cepa L. LILIACEAE Onion

Donated by: Vaughan-Jacklin Corporation, 5300 Katrine Avenue, Downer's Grove, Illinois, United States. Received 1965.

origin: United States.  cultivar: SOUTHPORT WHITE GLOBE.  

PI 546208. Allium cepa L. LILIACEAE Onion

Donated by: Asgrow Seed Company, Michigan, United States. Received 1965.


PI 546209 to 546226. Allium cepa L. LILIACEAE Onion

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1966.
PI 546209

**origin:** United States.  **origin institute:** USDA-ARS, Beltsville, Maryland.  **cultivar:** B 02108 B.  **remarks:**
Letter "B" preceding 2108 indicates Beltsville inbred. Letter "B" following B 2108 indicates companion line or maintenance line. Good seed producer (which is important in producing sgl-x hybrids). Cultivated. Seed.

PI 546210

**origin:** United States.  **origin institute:** USDA-ARS, Beltsville, Maryland.  **cultivar:** B 02133 A.  **remarks:**
Both A & B lines of B 2133 have been distributed upon request. Letter "B" preceding 2133 indicates Beltsville inbred. Letter "A" following B 02133 indicates male-sterile line S ms ms. Very high globe. Long day type. Not for long storage. Vigorous for an inbred and easy to maintain. Cultivated. Seed.

PI 546211

**origin:** United States.  **origin institute:** USDA-ARS, Beltsville, Maryland.  **cultivar:** B 02133 B.  **remarks:**
Both A and B lines have been distributed upon request. Letter "B" preceding 2133 indicates Beltsville inbred. Letter "B" following B 2133 indicates fertile companion or maintenance line N ms ms. Cultivated. Seed.

PI 546212

**origin:** United States.  **developer country:** United States.  **origin institute:** USDA-ARS, Beltsville, Maryland.  **cultivar:** B 02147 A. Cultivated. Seed.

PI 546213

**origin:** United States.  **origin institute:** USDA-ARS, Beltsville, Maryland.  **cultivar:** B 02147 B. Cultivated. Seed.

PI 546214

**origin:** United States.  **origin institute:** USDA-ARS, Beltsville, Maryland.  **cultivar:** B 02190 A.  **remarks:**
Both A & B lines have been distributed widely. Letter "B" preceding 2190 indicates Beltsville inbred. Letter "A" following indicates male-sterile line. Good seed producer (which is important when used for production of single-x hybrids). Cultivated. Seed.

PI 546215

**origin:** United States.  **origin institute:** USDA-ARS, Beltsville, Maryland.  **cultivar:** B 02190 B.  **remarks:**
Both A & B lines have been distributed widely. Letter "B" preceding 2190 indicates Beltsville inbred. Letter "B" following B 2190 indicates fertile companion line or maintenance line. Good seed producer (which is important when used for production of single-x hybrids). Cultivated. Seed.

PI 546216

**origin:** United States.  **origin institute:** USDA-ARS, Beltsville, Maryland.  **cultivar:** B 02207 A. Cultivated. Seed.
PI 546217  
origin: United States.  
origin institute: USDA-ARS, Beltsville, Maryland.  
cultivar: B 02207 B.  
Cultivated.  
Seed.

PI 546218  
origin: United States.  
origin institute: USDA-ARS, Beltsville, Maryland.  
cultivar: B 02215 C.  
Seed.

PI 546219  
origin: United States.  
origin institute: USDA-ARS, Beltsville, Maryland.  
cultivar: B 02264 A.  
Cultivated.  
Seed.

PI 546220  
origin: United States.  
origin institute: USDA-ARS, Beltsville, Maryland.  
cultivar: B 02264 B.  
remarks: Seed parent of Epoch. Both A & B lines have been distributed widely throughout the seed trade in US and abroad. Bulb attractive, globe shape and well filled shoulders and base. Letter "B" preceeding 2264 indicates Beltsville inbred. Letter "B" following B 2264 indicates fertile companion or maintenance line N ms ms. Cultivated.  
Seed.

PI 546221  
origin: United States.  
origin institute: USDA-ARS, Beltsville, Maryland.  
cultivar: B 05546 A.  
remarks: Inbred from common lot of seed. Both A & B lines have been distributed throughout the seed trade. Letter "B" preceding 5546 indicates Beltsville inbred. Letter "A" following B 5546 indicates male-sterile line S ms ms. Good vigor and easy to maintain. Cultivated.  
Seed.

PI 546222  
origin: United States.  
cultivar: B 05546 B.  
remarks: Letter "B" preceding 5546 indicates Beltsville inbred. Letter "B" following 5546 indicates fertile companion line or maintenance line N ms ms. Cultivated.  
Seed.

PI 546223  
origin: United States.  
cultivar: IA 0163 A.  
Cultivated.  
Seed.

PI 546224  
origin: United States.  
cultivar: IA 0163 B.  
Cultivated.  
Seed.

PI 546225  
origin: United States.  
cultivar: IA 2997 A.  
Cultivated.  
Seed.

PI 546226  
origin: United States.  
cultivar: IA 2997 A PRR O.  
Cultivated.  
Seed.

668
PI 546227. Allium cepa L. LILIACEAE Onion

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

**origin:** United States. **cultivar:** SHAMROCK. **pedigree:** Selection from Southport White Globe for stripping. **remarks:** Bulbs slowly, with silvery white shanks. Slimmer than Perfecto Blanco. Cultivated. Seed.

PI 546228 to 546229. Allium cepa L. LILIACEAE Onion

**Donated by:** Dessert Seed, California, United States. Received 1966.

PI 546228 **origin:** United States. **cultivar:** IMPROVED BELTSVILLE BUNCHING. Cultivated. Seed.

PI 546229 **origin:** United States. **cultivar:** RINGMASTER. **remarks:** Similar characteristics and large size as Utah Spanish. First single centered White Utah produced. Excellent strain for French fried onion rings. Cultivated. Seed.

PI 546230. Allium cepa L. LILIACEAE Onion

**Donated by:** Oregon Agr. Exp. Sta., Oregon, United States. Received 1966.

**origin:** United States. **cultivar:** OSU 11. **pedigree:** Polycross of four onion types: Oregon Danvers, Australian Brown, Yellow Sweet Spanish and Yellow Globe. **remarks:** Developed primarily for the Lake Labish area of W. Oregon. Designed to produce higher yields. Bulb deep yellow globe shape. Maturity approx. same as a Danvers in West. Storage ability good to excellent. Tolerant to pink rot. Cultivated. Seed.

PI 546231. Allium cepa L. LILIACEAE Onion

**Donated by:** Ferry-Morse Seed Company, California, United States. Received 1967.

**origin:** United States. **origin institute:** University of California, Davis, California. **cultivar:** STOCKTON G36. **remarks:** Discontinued variety. Discard with loss of germination. Bulbs medium large, somewhat top shaped. Color medium yellow, interior white, crisp and mild. Cultivated. Seed.
PI 546232 to 546233. Allium cepa L. LILIACEAE Onion

**Donated by:** Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1967.


PI 546233  origin: United States.  **cultivar:** IA 2997 B PRR O. Cultivated. Seed.

PI 546234. Allium cepa L. LILIACEAE Onion

**Donated by:** Dessert Seed, California, United States. Received 1967.

PI 546235. Allium cepa L. LILIACEAE Onion

**Donated by:** Twilley Seed Company, Otis, Maryland, United States. Received 1967.

PI 546236 to 546244. Allium cepa L. LILIACEAE Onion

**Donated by:** Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1968.

PI 546236  origin: United States.  **cultivar:** B 00007-165 A. Cultivated. Seed.

PI 546237  origin: United States.  **cultivar:** B 00007-165 B. Cultivated. Seed.


PI 546240  origin: United States.  **cultivar:** B 01288 A. Cultivated. Seed.
PI 546236 to 546244-continued


PI 546245. Allium cepa L. LILIACEAE Onion

Donated by: E. State Farmers, United States. Received 1968.

origin: United States. cultivar: UTAH VALENCIA.

PI 546246. Allium cepa L. LILIACEAE Onion

Donated by: Pieter-Wheeler Seed Company, California, United States. Received 1968.

origin: United States. cultivar: INDIAN SUMMER.
remarks: Danver's type. Skin dark bronze color, adheres well. Bulb globe shaped, uniform, solid, averaging 2-1/2 to 3-1/2 inches in diameter and approx. 3 inches deep. Matures one week to ten days later than Autumn Spice. Stores well. Cultivated. Seed.

PI 546247. Allium cepa L. LILIACEAE Onion

Donated by: Ferry-Morse Seed Company, California, United States. Received 1968.

origin: United States. cultivar: PERFECTO BLANCO.
PI 546248. Allium cepa L. LILIACEAE Onion

**Donated by:** Joseph Harris Company, Inc., Moreton Farm, Rochester, New York, United States. Received 1968.


PI 546249. Allium cepa L. LILIACEAE Onion

**Donated by:** Leatherman's Inc., Ohio, United States. Received 1969.


PI 546250 to 546251. Allium cepa L. LILIACEAE Onion

**Donated by:** W. Atlee Burpee Company, Pennsylvania, United States. Received 1971.


PI 546252. Allium cepa L. LILIACEAE Onion

**Donated by:** Hawaii Agr. Exp. Sta., Hawaii, United States. Received 1971.


PI 546253. Allium cepa L. LILIACEAE Onion

**Donated by:** Agway Inc., New York, United States. Received 1971.

PI 546254 to 546255. Allium cepa L. LILIACEAE Onion


PI 546256. Allium cepa L. LILIACEAE Onion

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


PI 546257 to 546258. Allium cepa L. LILIACEAE Onion

Donated by: Dessert Seed Co., United States. Received 1975.


PI 546259. Allium cepa L. LILIACEAE Onion

Donated by: Joseph Harris Company, Inc., Moreton Farm, Rochester, New York, United States. Received 1975.


PI 546260. Allium cepa L. LILIACEAE Onion

PI 546260-continued

origin: United States. cultivar: LONG WHITE BUNCHING. remarks: Hardy variety for over wintering to produce early scallions for spring bunching. Does not form bulbs. Single plants produce clusters of four to six green shoots with white stems. Spring sowing also for early summer crops. Cultivated. Seed.

PI 546261 to 546262. Allium cepa L. LILIACEAE Onion

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


PI 546263. Allium cepa L. LILIACEAE Onion

Donated by: Seed Res. Spec, California, United States. Received 1979.


PI 546264. Allium cepa L. LILIACEAE Onion

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1979.

PI 546265. Allium cepa L. LILIACEAE Onion

Donated by: Asgrow Seed Company, United States. Received 1979.


PI 546266 to 546267. Allium cepa L. LILIACEAE Onion

Donated by: Dessert Seed, California, United States. Received 1979.

PI 546266 origin: United States. cultivar: B 02129 A. Cultivated. Seed.

PI 546267 origin: United States. cultivar: B 02129 B. Cultivated. Seed.

PI 546268 to 546273. Allium cepa L. LILIACEAE Onion

Donated by: Dessert Seed Co., United States. Received 1980.


PI 546274 to 546276. Allium cepa L. LILIACEAE Onion

Donated by: Dessert Seed Co., United States. Received 1981.
PI 546274 to 546276-continued

PI 546274  
*origin*: United States.  
*cultivar*: EARLY GRAND PRR.  
*other id*: PVP 8000161.  
*source*: Certificate in force.  
*group*: PVPO.  
*Cultivated. Seed.*

PI 546275  
*origin*: United States.  
*cultivar*: SWEET WINTER.  
*other id*: PVP 8100166.  
*source*: Certificate in force.  
*group*: PVPO.  
*Cultivated. Seed.*

PI 546276  
*origin*: United States.  
*cultivar*: TEXSPAN PRR.  
*other id*: PVP 8000159.  
*source*: Certificate in force.  
*group*: PVPO.  
*Cultivated. Seed.*

PI 546277. Allium cepa L.  
*LILIACEAE Onion*

*Donated by*: Moran Seeds, Inc., United States; and Oshita, Inc.  
Received 1982.

*origin*: United States.  
*cultivar*: OMO M.  
*other id*: PVP 8200019.  
*source*: Certificate in force.  
*group*: PVPO.  
*Cultivated. Seed.*

PI 546278. Allium cepa L.  
*LILIACEAE Onion*

*Donated by*: Arco Seed Company, United States.  
Received 1983.

*origin*: United States.  
*cultivar*: CRYSTAL WAX PICKLING.  
*other id*: PVP 8300083.  
*source*: Certificate in force.  
*group*: PVPO.  
*Cultivated. Seed.*

PI 546279 to 546281. Allium cepa L.  
*LILIACEAE Onion*

*Donated by*: Dessert Seed Co., United States.  
Received 1984.

**PI 546279**  
*origin*: United States.  
*cultivar*: GLORY.  
*other id*: PVP 8100128.  
*source*: Certificate in force.  
*group*: PVPO.  
*Cultivated. Seed.*

**PI 546280**  
*origin*: United States.  
*cultivar*: PARADISE.  
*other id*: PVP 8100129.  
*source*: Certificate in force.  
*group*: PVPO.  
*Cultivated. Seed.*

**PI 546281**  
*origin*: United States.  
*cultivar*: REGAL.  
*other id*: PVP 8100130.  
*source*: Certificate in force.  
*group*: PVPO.  
*Cultivated. Seed.*

PI 546282 to 546305. Allium cepa L.  
*LILIACEAE Onion*

Received 1985.
PI 546282 to 546305—continued

PI 546282 origin: United States. cultivar: 11278 TR. Cultivated.
PI 546283 origin: United States. cultivar: 11377 TR. Cultivated.
PI 546284 origin: United States. cultivar: 1459B. Cultivated.
PI 546285 origin: United States. cultivar: 2399B. Cultivated.
PI 546286 origin: United States. cultivar: 2923A. Cultivated.
PI 546287 origin: United States. cultivar: 2923B. Cultivated.
PI 546288 origin: United States. cultivar: 2935A. Cultivated.
PI 546289 origin: United States. cultivar: 2935B. Cultivated.
PI 546290 origin: United States. cultivar: 4535B. Cultivated.
PI 546291 origin: United States. cultivar: 5718A. Cultivated.
PI 546292 origin: United States. cultivar: 5718B. Cultivated.
PI 546293 origin: United States. cultivar: 611-1B. Cultivated.
PI 546294 origin: United States. cultivar: 611A PRR. Cultivated.
PI 546295 origin: United States. cultivar: 611B PRR. Cultivated.
PI 546296 origin: United States. cultivar: 6693A. Cultivated.
PI 546297 origin: United States. cultivar: 6693B. Cultivated.
PI 546298 origin: United States. cultivar: 7728A. Cultivated.
PI 546299 origin: United States. cultivar: 7728B. Cultivated.
PI 546300 origin: United States. cultivar: 8155A. Cultivated.
PI 546301 origin: United States. cultivar: 8155B. Cultivated.
PI 546302 origin: United States. cultivar: 826B. Cultivated.
PI 546303 origin: United States. cultivar: 9865C TR. Cultivated.
PI 546304 origin: United States. cultivar: 9897A TR. Cultivated.
PI 546305 origin: United States. cultivar: 9897B TR. Cultivated.

PI 546306. Allium cepa L. LILIACEAE Onion

Donated by: Asgrow Seed Company, United States. Received 1985.
PI 546306-continued


PI 546307 to 546321. Allium cepa L. LILIACEAE Onion

Donated by: Mclellan, K., Quali-sel Seeds, P.O. Box 311, Parma, Idaho, United States. Received 1986.

PI 546307 origin: United States. cultivar: B2923B. Cultivated.
PI 546308 origin: United States. cultivar: M1459B. Cultivated.
PI 546309 origin: United States. cultivar: M2399B. Cultivated.
PI 546310 origin: United States. cultivar: M2935A. Cultivated.
PI 546311 origin: United States. cultivar: M2935B. Cultivated.
PI 546312 origin: United States. cultivar: M4535B. Cultivated.
PI 546313 origin: United States. cultivar: M5718A. Cultivated.
PI 546314 origin: United States. cultivar: M5718B. Cultivated.
PI 546315 origin: United States. cultivar: M611-1APRR. Cultivated.
PI 546316 origin: United States. cultivar: M611-1BPRR. Cultivated.
PI 546317 origin: United States. cultivar: M611APRR. Cultivated.
PI 546318 origin: United States. cultivar: M611BPRR. Cultivated.
PI 546319 origin: United States. cultivar: M8155A. Cultivated.
PI 546320 origin: United States. cultivar: M8155B. Cultivated.
PI 546321 origin: United States. cultivar: M826B. Cultivated.

PI 546322. Allium cepa L. LILIACEAE Onion

Donated by: Corona, James, United States. Received 1986.

PI 546323. Allium cepa L. LILIACEAE Onion

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


PI 546324. Allium cepa L. LILIACEAE Onion

Donated by: Nickerson-Zwaan, United States. Received 1988.

origin: United States. cultivar: EVEREST. other id: PVP 8800045. source: Pending. group: PVPO. Cultivated.

PI 546325 to 546327. Allium cepa L. LILIACEAE Onion


PI 546325 origin: United States. cultivar: DORADA. other id: PVP 8800208. source: Pending. group: PVPO. Cultivated.

PI 546326 origin: United States. cultivar: PERLA. other id: PVP 8800209. source: Pending. group: PVPO. Cultivated.


PI 546328. Allium cepa L. LILIACEAE Onion

Donated by: Sunseeds, P.O. Box 181, 110 E Ross Ave, El Centro, California, United States. Received 1988.


PI 546329 to 546330. Allium cepa L. LILIACEAE Onion

Donated by: Nickerson-Zwaan B.V., United States. Received 1989.

PI 546329 origin: United States. cultivar: NIZ 0110. other id: PVP 8900276. source: Pending. group: PVPO. Cultivated.

PI 546330 origin: United States. cultivar: NIZ 0111. other id: PVP 8900277. source: Pending. group: PVPO. Cultivated.
PI 546331. Allium fistulosum L. LILIACEAE Bunching onion

**Donated by:** Seed Res. Spec, California, United States. Received 1961.

**origin:** United States. **cultivar:** WHITE LISBON. **remarks:** Bunching type. Stalks long, clear white. Mild, vigorous, matures flat. Cultivated. Seed.

PI 546332. Allium fistulosum L. LILIACEAE Bunching onion

**Donated by:** Asgrow Seed Company, Michigan, United States. Received 1961.

**origin:** United States. **cultivar:** EVERGREEN (NEBUKA). **remarks:** Maturity 60 days. Hardy, non-bulbing variety, used in the East and Midwest. Stems long, slender, pure white and tender. Flavor delicate. Slow bolting. Resistant to pink root, thrips and smut. Cultivated. Seed.

PI 546333. Allium fistulosum L. LILIACEAE Bunching onion

**Donated by:** Vaughan-Jacklin Corporation, 5300 Katrine Avenue, Downer's Grove, Illinois, United States. Received 1968.

**origin:** United States. **cultivar:** HE-SHI-KO. **remarks:** Maturity 50 days. Early bunch type. Hardy. May be sown spring or fall. Fall sowing will produce green onions very early in spring. Cultivated. Seed.

PI 546334. Allium fistulosum L. LILIACEAE Bunching onion

**Donated by:** Joseph Harris Company, Inc., Moreton Farm, Rochester, New York, United States. Received 1970.

**origin:** United States. **cultivar:** JAPANESE BUNCHING. **remarks:** Popular for home use and market as green bunching type. Does not form bulb but makes long slim "scallions" of good quality. When spaced, multiplies to several stalks per plant. Hardy, used for wintering over and for summer or fall crop. Cultivated. Seed.

PI 546335. Allium fistulosum L. LILIACEAE Bunching onion

**Donated by:** Northrup, King & Company, 1500 Jackson N.E., Minneapolis, Minnesota, United States. Received 1975.
PI 546335-continued

**origin:** United States. **cultivar:** WHITE WELSH. **remarks:** Winterhardy. Non-bulbing. Used exclusively for geen bunching. May be sown in late summer or fall and shoots will attain marketable size the following spring before green onions from sets are offered. Perennial. Cultivated. Seed.

---

PI 546336 to 546344. Allium hybrid LILIACEAE

**Donated by:** Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1988.

**PI 546336**

**origin:** United States. **developer country:** United States. **origin institute:** USDA-ARS, Beltsville, Maryland. **cultivar:** f-c 8407. **pedigree:** A. fistulosum PI 223853 'Kujyu-negi' genic male-sterile/ A. cepa 'Southport White Globe' Asgrow amphidiploid (colchicine). **remarks:** Beltsville bunching type. Seedling vigor. Winter hardiness. Cultivated. Seed.

**PI 546337**

**origin:** United States. **developer country:** United States. **origin institute:** USDA-ARS, Beltsville, Maryland. **cultivar:** f-c 8432. **pedigree:** A. fistulosum PI 223853 'Kujyu-negi' genic male-sterile / a. cepa 'White Knight' Asgrow amphidiploid (colchicine-induced). **remarks:** Beltsville bunching type. Seedling vigor. Winter hardiness. Cultivated. Seed.

**PI 546338**

**origin:** United States. **developer country:** United States. **origin institute:** USDA-ARS, Beltsville, Maryland. **cultivar:** f-c 8434. **pedigree:** A. fistulosum PI 223853 'Kujyu-negi' genic male-sterile / A. cepa (PI 239633 / 'Penn Dutch Long Bottle' F2) amphidiploid (colchicine). **remarks:** Beltsville bunching type. Seedling vigor. Winter hardiness. Cultivated. Seed.

**PI 546339**

**origin:** United States. **developer country:** United States. **origin institute:** USDA-ARS, Beltsville, Maryland. **cultivar:** f-c 8492. **pedigree:** A. fistulosum PI 223853 'Kujyu-negi' genic male-sterile / A. cepa (P52-374A = White Sweet Spanish / PI 246322 F3) amphidiploid (colchicine). **remarks:** Beltsville bunching type. Seedling vigor. Winter hardiness. Cultivated. Seed.
PI 546336 to 546344—continued

PI 546340  
**origin:** United States. **developer country:** United States.  
**origin institute:** USDA-ARS, Beltsville, Maryland.  

PI 546341  
**origin:** United States. **developer country:** United States.  
**origin institute:** USDA-ARS, Beltsville, Maryland.  

PI 546342  
**origin:** United States. **developer country:** United States.  
**origin institute:** USDA-ARS, Beltsville, Maryland.  

PI 546343  
**origin:** United States. **developer country:** United States.  
**origin institute:** USDA-ARS, Beltsville, Maryland.  
**cultivar:** ga-c 76. **pedigree:** A. galanthum PI 280091 / A. cepa inbred B 2215 C (Brigham Yellow Globe) amphidiploid (colchicine-induced). **remarks:** Medium bulbing. Winter hardiness. Bulb scales dry, reddish-brown. Flower stalks up to 178cm. Has shown resistance to natural infection by downy mildew, Peronospora destructor at Beltsville. Perennial. Cultivated. Seed.

PI 546344  
**origin:** United States. **developer country:** United States.  
**origin institute:** USDA-ARS, Beltsville, Maryland.  

PI 546345. Allium pseudocepa Schrenk LILIACEAE

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

682
PI 546345-continued


PI 546346. Allium pseudocepa Schrenk LILIACEAE

Donated by: Agricultural Research Service -- USDA, Beltsville, Maryland, United States. Received 1979.


PI 546347. Allium schoenoprasum L. LILIACEAE Chives


PI 546348. Stokesia laevis (Hill) E. Greene ASTERACEAE Stokes' aster

Donated by: Lonsberry Gardens, P.O. Box 135, Oakford, Illinois, United States. Received September 21, 1971.

<table>
<thead>
<tr>
<th>Scientific Name Cross Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Abelmoschus esculentus</strong> 542594</td>
</tr>
<tr>
<td>Aegilops biuncialis 542144-542170</td>
</tr>
<tr>
<td>Aegilops columnaris 542171</td>
</tr>
<tr>
<td>Aegilops comosa 542172-542177</td>
</tr>
<tr>
<td>Aegilops crassa 542178</td>
</tr>
<tr>
<td>Aegilops cylindrica 542179</td>
</tr>
<tr>
<td>Aegilops geniculata subsp. geniculata 542180-542190</td>
</tr>
<tr>
<td>Aegilops hybrid 542191</td>
</tr>
<tr>
<td>Aegilops juvenalis 542192-542193</td>
</tr>
<tr>
<td>Aegilops kotschyi 542194-542195</td>
</tr>
<tr>
<td>Aegilops longissima 542196</td>
</tr>
<tr>
<td>Aegilops markgrafii var. markgrafii 542197-542219</td>
</tr>
<tr>
<td>Aegilops neglecta 542211-542218,542220-542230</td>
</tr>
<tr>
<td>Aegilops neglecta subsp. neglecta 542231-542234</td>
</tr>
<tr>
<td>Aegilops neglecta subsp. recta 542235</td>
</tr>
<tr>
<td>Aegilops peregrina subsp. cylindrostachys 542236</td>
</tr>
<tr>
<td>Aegilops sharonensis 542237</td>
</tr>
<tr>
<td>Aegilops speltoides 542238</td>
</tr>
<tr>
<td>Aegilops speltoides var. ligustica 542239-542258</td>
</tr>
<tr>
<td>Aegilops speltoides var. speltoides 542259-542276</td>
</tr>
<tr>
<td>Aegilops tauschii subsp. tauschii 542277-542278</td>
</tr>
<tr>
<td>Aegilops triuncialis 542279-542361</td>
</tr>
<tr>
<td>Aegilops umbellulata 542362-542384</td>
</tr>
<tr>
<td>Aegilops ventricosa 542385</td>
</tr>
<tr>
<td>Aeschynomene americana 544079-544345</td>
</tr>
<tr>
<td>Agrostis stolonifera var. palustris 542088-542089,543248</td>
</tr>
<tr>
<td>Alcea rosea 545691</td>
</tr>
<tr>
<td>Allium ampeloprasum 546062-546069</td>
</tr>
<tr>
<td>Allium cepa 546070-546330</td>
</tr>
<tr>
<td>Allium fistulosum 546331</td>
</tr>
<tr>
<td>Allium hybrid 546336-546344</td>
</tr>
<tr>
<td>Allium pseudopicea 546345-546346</td>
</tr>
<tr>
<td>Allium sativum 543048-543049</td>
</tr>
<tr>
<td>Allium schoenoprasum 546347</td>
</tr>
<tr>
<td>Amaranthus sp. 542595-542596</td>
</tr>
<tr>
<td>Ampelopsis aconitifolia var. glabra 545685</td>
</tr>
<tr>
<td>Aniseia martiniensis 543813</td>
</tr>
<tr>
<td>Anthyllis vulneraria subsp. carpatica 542779-542781</td>
</tr>
<tr>
<td>Antirrhinum majus 542416-542431</td>
</tr>
<tr>
<td>Apium graveolens 542396,545482</td>
</tr>
<tr>
<td>Arachis hypogaea 542961,544346,544348-544352</td>
</tr>
<tr>
<td>Arachis hypogaea subsp. hypogaea 542960</td>
</tr>
<tr>
<td>Aronia melanocarpa 545682,545686-545687</td>
</tr>
<tr>
<td>Asparagus hybrid 542615</td>
</tr>
<tr>
<td>Astragalus sp. 542782</td>
</tr>
<tr>
<td>Avena fatua 542090-542091,544355-545480</td>
</tr>
<tr>
<td>Avena hybrid 545481</td>
</tr>
<tr>
<td>Avena sativa 542591-542593,544347,546034-546037</td>
</tr>
<tr>
<td>Benincasa hispida 542597-542598</td>
</tr>
<tr>
<td>Beta vulgaris 542971</td>
</tr>
<tr>
<td>Brassica napus 542983-542984,543937</td>
</tr>
<tr>
<td>Cajanus cajan 543177</td>
</tr>
<tr>
<td>Calendula arvensis 545706</td>
</tr>
<tr>
<td>Calendula officinalis 545694,545698-545700,545709</td>
</tr>
<tr>
<td>Calendula suffruticosa 545701,545707-545708</td>
</tr>
<tr>
<td>Capsicum annuum 542599-542604,542977,543809-543811</td>
</tr>
<tr>
<td>Capsicum sp. 543178-543208</td>
</tr>
<tr>
<td>Carthamus tinctorius 543974-544063</td>
</tr>
<tr>
<td>Centrosema plumieri 542963</td>
</tr>
<tr>
<td>Chamaecytisus prolifer 543808</td>
</tr>
<tr>
<td>Cicer arietinum 542605,543009-543012,543050-543065,543921</td>
</tr>
<tr>
<td>Cichorium endivia 544067</td>
</tr>
<tr>
<td>Citrullus colocynthis 542616</td>
</tr>
<tr>
<td>Citrullus lanatus 542112-542123,542606,542617,543212</td>
</tr>
<tr>
<td>Citrullus sp. 543209-543211</td>
</tr>
<tr>
<td>Crotalaria ochroleuca 543869</td>
</tr>
</tbody>
</table>
Cucumis africanus 542125-542133
Cucumis anguria 542134-542135, 543751
Cucumis melo 542618-542619, 543752
Cucumis sp. 542136-542137
Cucurbita maxima 545488
Cucurbita moschata 542607
Cucurbita pepo 542050,542052,543230
Cyamopsis tetragonoloba 542608
Cyclanthera pedata 543213-543214
Cynara scolymus 542054
Dactylis glomerata 542783, 543748
Desmanthus illinoensis 543895-543914
Desmanthus virgatus 543915
Duchesnea indica 545710
Festuca arundinacea 542051, 543836-543839, 543928-543931, 544064
Festuca rubra subsp. commutata 543834, 543928
Glycine max 542042-542046, 542053,542055-542067, 542070-542071,542392-542393,542399, 542402-542404,542709-542712, 542768-542769,542969-542970, 542972,542982,543793-543795, 543832,543855-543857,543932-543936,544354,546038-546054
Gossypium barbadense 542397, 542770-542775,542978,543753-543760
Gossypium hirsutum 542049, 542398,542973-542974,543252, 543812,543858-543868,543926, 544073-544074
Gypsophila oldhamiana 545690
Helianthus annuus 543006, 543743-543746
Helianthus hybrid 543742, 543747
Hordeum vulgare 542047, 542391, 542707-542708,544075-544078
Humulus lupulus 546055
Inga sp. 543761
Ipomoea batatas 542073-542075
Ipomoea ochracea 542076
Ipomoea pes-caprae 543814
Ipomoea sp. 542077-542080
Ipomoea tiliae 542081-542087
Ipomoea trifida 543815-543831
Jacaranda sp. 543762
Lablab purpureus 542609, 543231
Lactuca sativa 542386, 543927, 543959-543972,544066,545484-545486
Lagenaria siceraria 542610
Lagenaria sp. 543232-543236
Lathyrus sativus 543071
Lathyrus sp. 542690
Lavatera thuringiaca 545693
Lavatera trimestris 545702-545703
Lens culinaris 543066-543070, 543920
Limnanthes alba var. alba 543894
Linum flavum 545704
Lolium perenne 542980-542981, 543833,543835
Lolium sp. 545593-545680
Lonchocarpus sp. 543763-543764
Lotus corniculatus 542784-542785
Lotus sp. 542786-542792
Lotus tenuis 542793
Luffa aegyptiaca 542611
Lupinus albus 543013-543028
Lupinus angustifolius 543029-543030
Lupinus hispanicus 543031
Lupinus sp. 543032
Lycopersicon esculentum 542390
Macroptilium atropurpureum 543261-543397
Malva verticillata 545692
Medicago lupulina 542794, 543033
Medicago orbicularis 543034
Medicago polymorpha 543035-543036
Medicago polymorpha var. vulgaris 543037
Medicago sativa 542620-542625, 542967-542968,542995-542996, 544068,545592
Medicago sp. 542795-542800, 543038-543041
Medicago truncatula 543042
Melilotus sp. 542801
Momordica balsamina 542138
Momordica charantia 543237
Nicotiana tabacum 543765-543768,543792,543922
Oenothera lipsiensis 542395
Oryza sativa 542068-542069, 542394,543851-543853,543873-543875,543884-543888
Oryza sp. 543876-543883

685
Pachyrhizus tuberosus 543238-543239
Panicum validum 546058
Papaver somniferum 542691
Papaver sp. 542692
Paspalum vaginatum 543854
Pennisetum divisum 542626
Pennisetum glaucum 542627-542637,543749
Pennisetum sp. 542139
Pennisetum sphenacelatum 543796-543799
Pennisetum thunbergii 543800-543806
Pennisetum villosum 543807
Phaseolus coccineus 542613
Phaseolus vulgaris 542388-542389,543249-543251,543923-543925,544071-544072
Phaseolus vulgaris var. vulgaris 543043-543047
Pisum sativum 542387,545487,545489-545490
Poa pratensis 543938
Prunus armeniaca 543940-543946,543948,543958
Prunus cerasus 543951-543954
Prunus domestica 543956-543957
Prunus domestica subsp. insititia 543949
Prunus dulcis 543950
Prunus hybrid 543947
Prunus mume 543955
Prunus salicina var. mandshurica 543939
Pyrus communis 541500-541559,541743,541958
Pyrus communis subsp. caucasica 541560-541566,541957
Pyrus communis var. pyraster 541567-541569
Pyrus complexa 542036
Pyrus cordata 541570-541591
Pyrus cossionii 541592-541594
Pyrus dimorphophylla 541595-541612
Pyrus elaegrifolia 541613-541631
Pyrus fauriei 541632-541661
Pyrus gharbiana 541662-541669
Pyrus glabra 541670
Pyrus hondoensis 541671-541704
Pyrus hybrid 541705-541742,541744-541756,541758-541761,541767-541824,541891
Pyrus koehnei 541825-541839
Pyrus korshinskyi 541840-541841
Pyrus korshinskyi subsp. bucharica 541842
Pyrus mamorensis 541843-541858
Pyrus nivalis 541859-541870
Pyrus pashia 541871-541890,541892-541895
Pyrus pseudopashia 541896
Pyrus pyrifolia 541757,541762-541766,541897-541908,541910-541943
Pyrus regeii 541944-541947
Pyrus salicifolia 541948-541953
Pyrus sp. 541954,541956,541959-541964,541966-541972
Pyrus syriaca 541973-541983
Pyrus ussuriensis 541909,541955,541965,541984-542033
Pyrus x bretschneideri 542034
Pyrus x canescens 542035
Pyrus x phaeocarpa 542037
Pyrus x serrulata 542038-542040
Pyrus xerophila 542041
Raphanus sativus 542614
Rheedia sp. 543769-543770
Rhus copallina 545681
Rhynchosia totta 542140-542143
Saccharum hybrid 542964
Saccharum officinarum 542102-542105
Secale cereale 542467-542470,542476-542477,542567-542574,543398-543729
Sesamum indicum 542048,543240-543241
Solanum acaule subsp. acaule 545837-545843,545931-545957
Solanum agrimonifolium 545748-545750
Solanum alandiae 545844-545845
Solanum arnezii 545846-545847,545958
Solanum astleyi 545848,545959
Solanum berhaultii 545849-545852,545960-545962
Solanum boliviense 545853,545963-545966
Solanum brachistotrichum 545812-545817
Solanum brevicaule 545967-545971
Solanum bulbocastanum subsp. dolichophyllum 545751-545752,545818
Solanum bulbocastanum
var. bulbocastanum 545711, 545819
Solanum candolleanum 545972
Solanum capsicibaccatum 545973
Solanum cardiophyllum 545820-545821
Solanum cardiophyllum subsp. ehrenbergii 545753, 545822-545824
Solanum circaeifolium subsp. quimense 545974
Solanum demissum 545754-545767
Solanum doddsii 545854-545861
Solanum gandarillasi i 545862-545864
Solanum gourlayi subsp. pachytrichum 545865-545867, 545975-545979
Solanum hintonii 545712
Solanum hjertingii 545713-545715, 545768
Solanum hondelmannii 545868-545879
Solanum hoopesii 545880-545882
Solanum hybrid 545883-545892, 545980-545983
Solanum infundibuliforme 545893-545894
Solanum iopetalum 545716, 545769-545772
Solanum leptophyes 545895-545896, 545984-545997
Solanum megistacrolobum 545897-545900, 545998-546000
Solanum melongena 542612
Solanum microdontum 545901
Solanum microdendron subsp. gigantophyllum 545902-545905
Solanum morelliforme 545717-545720, 545773-545775
Solanum nayaritense 545825-545828
Solanum oplencense 545906-545910
Solanum oxycaurpum 545721, 545776-545779
Solanum papita 545722-545732
Solanum polytrichon 545780-545789
Solanum schenckii 545733, 545790-545791
Solanum semidemissum 545829
Solanum sp. 545734, 545792, 545830-545831, 545911, 546001-546005
Solanum sparsipilum 545912-545913, 546006-546007
Solanum stenophyllidium 545832
Solanum stoloniferum 545735-545740, 545793-545807, 545833-545835
Solanum sucrense 545914-545919, 546008
Solanum tarijense 545920-545924
Solanum tarnii 545741-545742, 545805
Solanum tuberosum subsp. andigena 545743-545744, 545929-545930, 546016-546028
Solanum tuberosum var. tuberosum 545836
Solanum ugentii 546029-546033
Solanum vallis-mexici 545809
Solanum verrucosum 545745-545747, 545810-545811
Sorghum bicolor 542405-542415, 542638-542648, 542717-542767, 542962, 542985-542994, 542997-543005, 543074-543175, 543247, 543253-543260, 543730-543740, 543750, 544069, 545493-545591, 545912-545913
Sorghum halepense 542767
Spilanthes sp.
Staphylea bumalda
Stenotaphrum secundatum
Stokesia laevis
Tamarindus indica
Tithonia rotundifolia
Trifolium alpestre 542802-542812
Trifolium ambiguus 542965
Trifolium angustifolium 542813-542816
Trifolium arvense 542817-542818
Trifolium bocconeii 542819
Trifolium campestris 542826-542829
Trifolium fragiferum 542827-542829
Trifolium hybridum 542830
Trifolium longidentatum 542831-542832
Trifolium medium 542833-542838
Trifolium montanum 542839-542861
Trifolium ochroleucum 542862-542863

687
<table>
<thead>
<tr>
<th>Species</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trifolium pallidum</td>
<td>542864</td>
</tr>
<tr>
<td>Trifolium pannonicum</td>
<td>542865</td>
</tr>
<tr>
<td>Trifolium pratense</td>
<td>542866-542900</td>
</tr>
<tr>
<td>Trifolium repens</td>
<td>542901-542916, 544353</td>
</tr>
<tr>
<td>Trifolium rubens</td>
<td>542917-542925</td>
</tr>
<tr>
<td>Trifolium scabrum</td>
<td>542926-542929</td>
</tr>
<tr>
<td>Trifolium sp.</td>
<td>542930-542932</td>
</tr>
<tr>
<td>Trifolium trichopterum</td>
<td>542933-542934</td>
</tr>
<tr>
<td>Trigonella foenum-graecum</td>
<td>543072-543073</td>
</tr>
<tr>
<td>Trigonella sp.</td>
<td>542092-542098, 542693-542699</td>
</tr>
<tr>
<td>Tripsacum dactyloides</td>
<td>543889-543892</td>
</tr>
<tr>
<td>Triticum aestivum</td>
<td>542072, 542400-542401, 542432-542465, 542575-542577, 542583-542589, 542650-542675, 542704-542706, 542975-542976, 542979, 543007, 543791, 543893, 545491-545492, 546056-546057</td>
</tr>
<tr>
<td>Triticum boeoticum</td>
<td>542475</td>
</tr>
<tr>
<td>Triticum durum</td>
<td>542471, 542590</td>
</tr>
<tr>
<td>Triticum hybrid</td>
<td>542478-542508, 542578-542582</td>
</tr>
<tr>
<td>Triticum macha</td>
<td>542466</td>
</tr>
<tr>
<td>Triticum militinae</td>
<td>542472</td>
</tr>
<tr>
<td>Triticum monococcum</td>
<td>542473-542474</td>
</tr>
<tr>
<td>Triticum turgidum</td>
<td>542676-542680, 546060</td>
</tr>
<tr>
<td>UNDETERMINED sp.</td>
<td>542935-542936, 543773</td>
</tr>
<tr>
<td>UNIDENT-Cucurbitaceae sp.</td>
<td>542124</td>
</tr>
<tr>
<td>Ulmus parvifolia</td>
<td>543176</td>
</tr>
<tr>
<td>Vicia sativa</td>
<td>542700-542703</td>
</tr>
<tr>
<td>Vigna unguiculata</td>
<td>542052, 542681, 543242, 544070</td>
</tr>
<tr>
<td>Vitex sp.</td>
<td>543774</td>
</tr>
<tr>
<td>X Pseudoroelymus sp.</td>
<td>546061</td>
</tr>
<tr>
<td>X Triticosecale sp.</td>
<td>542509-542566</td>
</tr>
<tr>
<td>Zea mays subsp. mays</td>
<td>542099-542101, 542106-542111, 542682-542689, 542713-542716, 542776-542778, 542937-542959, 543008, 543741, 543775-543790, 543840-543850, 543870-543872, 543916-543919, 543973, 544065</td>
</tr>
<tr>
<td>Zinnia angustifolia</td>
<td>545695</td>
</tr>
<tr>
<td>Zinnia haageana</td>
<td>545697</td>
</tr>
<tr>
<td>Zinnia peruviana</td>
<td>545688-545689, 545696</td>
</tr>
<tr>
<td>Zinnia violacea</td>
<td>545705</td>
</tr>
<tr>
<td>Common Name Cross Reference</td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td></td>
</tr>
<tr>
<td>Achocha 543213-543214</td>
<td></td>
</tr>
<tr>
<td>Aegilops 542144-542385</td>
<td></td>
</tr>
<tr>
<td>Alfalfa 542967-542968,542995-542996,544068,545592</td>
<td></td>
</tr>
<tr>
<td>Almond 543950</td>
<td></td>
</tr>
<tr>
<td>Alsike clover 542830</td>
<td></td>
</tr>
<tr>
<td>Apricot 543940-543946,543948,543958</td>
<td></td>
</tr>
<tr>
<td>Asian Pear 541897-541898,541903-541909,541931,541954-541955,541962,541965-541966,541985-542002,542004-542025</td>
<td></td>
</tr>
<tr>
<td>Balsam pear 543237</td>
<td></td>
</tr>
<tr>
<td>Barley 542047,542391,542707-542708,544075-544078</td>
<td></td>
</tr>
<tr>
<td>Barrel medic 543042</td>
<td></td>
</tr>
<tr>
<td>Bean 543249-543251</td>
<td></td>
</tr>
<tr>
<td>Bell pepper 542977</td>
<td></td>
</tr>
<tr>
<td>Birdsfoot trefoil 542784-542785</td>
<td></td>
</tr>
<tr>
<td>Black medic 542794,543033</td>
<td></td>
</tr>
<tr>
<td>Blue lupine 543029-543030</td>
<td></td>
</tr>
<tr>
<td>Bunching onion 546331-546335</td>
<td></td>
</tr>
<tr>
<td>Buttonclover 543034</td>
<td></td>
</tr>
<tr>
<td>California burclover 543035-543036</td>
<td></td>
</tr>
<tr>
<td>Celery 542396,545482</td>
<td></td>
</tr>
<tr>
<td>Chewings fescue 543834,543928</td>
<td></td>
</tr>
<tr>
<td>Chickpea 542605,543009-543012,543050-543070,543921</td>
<td></td>
</tr>
<tr>
<td>Chinese Pear 542015,542019,542026,542028</td>
<td></td>
</tr>
<tr>
<td>Chives 546347</td>
<td></td>
</tr>
<tr>
<td>Colocynthis 542616</td>
<td></td>
</tr>
<tr>
<td>Common oat 542591-542593,544347,546034-546037</td>
<td></td>
</tr>
<tr>
<td>Common rye 542467-542470,542476-542477</td>
<td></td>
</tr>
<tr>
<td>Common vetch 542700-542703</td>
<td></td>
</tr>
<tr>
<td>Common wheat 542072,542400-542401,542432-542465,542575-542577,542650-542675,542704-542706,542975-542976,542979,543007,54491-545492,546056-546057</td>
<td></td>
</tr>
<tr>
<td>Corn 542099-542101,542106-542111,542682-542689,542776-542778,542937-542959,543008,543741,543775-543790,543840-543850,543870-543872,543916-543919,543973,544065</td>
<td></td>
</tr>
<tr>
<td>Cotton 542049,542397-542398,542770-542775,542973-542974,543252,543812,543926,544073-544074</td>
<td></td>
</tr>
<tr>
<td>Cowpea 542052,543242,544070</td>
<td></td>
</tr>
<tr>
<td>Durum wheat 542471,546060</td>
<td></td>
</tr>
<tr>
<td>Dutch clover 542901-542916</td>
<td></td>
</tr>
<tr>
<td>Eastern gamagrass 543889-543892</td>
<td></td>
</tr>
<tr>
<td>Eggplant 542612</td>
<td></td>
</tr>
<tr>
<td>Einkorn 542473-542474</td>
<td></td>
</tr>
<tr>
<td>Endive 544067</td>
<td></td>
</tr>
<tr>
<td>Evening primrose 542395</td>
<td></td>
</tr>
<tr>
<td>Feathertop 543807</td>
<td></td>
</tr>
<tr>
<td>Fenugreek 543072-543073</td>
<td></td>
</tr>
<tr>
<td>Garden bean 543043-543047,544071-544072</td>
<td></td>
</tr>
<tr>
<td>Garlic 543048-543049</td>
<td></td>
</tr>
<tr>
<td>Globe artichoke 542054</td>
<td></td>
</tr>
<tr>
<td>Grass pea 543071</td>
<td></td>
</tr>
<tr>
<td>Guar 542608</td>
<td></td>
</tr>
<tr>
<td>Hop 546055</td>
<td></td>
</tr>
<tr>
<td>Hungarian clover 542865</td>
<td></td>
</tr>
<tr>
<td>Hyacinth bean 543231</td>
<td></td>
</tr>
<tr>
<td>Hybrid wheat 542507-542508</td>
<td></td>
</tr>
<tr>
<td>Illinois bundleflower 543895-543914</td>
<td></td>
</tr>
<tr>
<td>Japanese apricot 543955</td>
<td></td>
</tr>
<tr>
<td>Johnsongrass 542649</td>
<td></td>
</tr>
<tr>
<td>Joint-vetch 544079-544345</td>
<td></td>
</tr>
<tr>
<td>Kentucky bluegrass 543938</td>
<td></td>
</tr>
<tr>
<td>Kura clover 542965</td>
<td></td>
</tr>
<tr>
<td>Lablab bean 542609</td>
<td></td>
</tr>
<tr>
<td>Lacebark elm 543176</td>
<td></td>
</tr>
<tr>
<td>Large hop clover 542820-542826</td>
<td></td>
</tr>
<tr>
<td>Leek 546062-546069</td>
<td></td>
</tr>
<tr>
<td>Lentil 543920</td>
<td></td>
</tr>
<tr>
<td>Lettuce 542386,543927,544066,545484-545486</td>
<td></td>
</tr>
<tr>
<td>Luffa 542611</td>
<td></td>
</tr>
<tr>
<td>Melo 542618-542619</td>
<td></td>
</tr>
<tr>
<td>Melon 543752</td>
<td></td>
</tr>
<tr>
<td>Millet 542626</td>
<td></td>
</tr>
<tr>
<td>Mountain clover 542802-542812</td>
<td></td>
</tr>
<tr>
<td>Narrowleaf trefoil 542793</td>
<td></td>
</tr>
<tr>
<td>Okra 542594</td>
<td></td>
</tr>
<tr>
<td>Onion 546070-546330</td>
<td></td>
</tr>
<tr>
<td>Opium poppy 542691</td>
<td></td>
</tr>
<tr>
<td>Orchardgrass 542783,543748</td>
<td></td>
</tr>
<tr>
<td>Oriental Pear 541899-541902,541910-541916,541918-541930,541932-541943</td>
<td></td>
</tr>
<tr>
<td>Oriental pear 541917</td>
<td></td>
</tr>
<tr>
<td>Pea 542387,545487,545489-545490</td>
<td></td>
</tr>
<tr>
<td>Peanut 542960-542961,544346,544348-544352</td>
<td></td>
</tr>
<tr>
<td>Pear 541500-541569,541705-541706</td>
<td></td>
</tr>
</tbody>
</table>
Pearl millet 542627-542637, 543749
Pepper 542599-542604
Perennial Ryegrass 543835
Perennial ryegrass 542980-542981, 543833
Pinto bean 543923-543925
Plum 543949, 543956-543957
Popcorn 542713-542716
Pumpkin 542050, 545483, 545488
Purple bean 543261-543397
RYE 543267-542574
Radish 542567-542574
Rape 543866-542900
Red clover 543926-542929
Rice 542068-542069, 542394, 543851-543853, 543873-543875, 543884-543888
Rough clover 542926-542929
Rye 543974-544063
Safflower 543974-544063
Sand Pear 542003, 542009, 542011-542014, 542016-542018, 542020-542021, 542027, 542029-542033
Sea Island cotton 542978, 543753-543760
Sesame 542048, 543240-543241
Snap bean 542388-542389
Snapdragon 542416-542431
Sorghum 542407-542415, 542638-542648, 542717-542767, 542985-542994, 542997-543005, 543243-543247, 543253-543260, 543730-543740, 543750, 544069, 545493-545591, 546059
Sour cherry 543951-543954
Soybean 542042-542046, 542053, 542055-542067, 542070-542071, 542392-542393, 542399, 542402-542404, 542709-542712, 542768-542769, 542969-542970, 542972, 542982, 543793-543795, 543832, 543855-543857, 543932-543936, 544354, 546038-546054
Stokes' aster 546348
Strawberry clover 542827-542829
Sudangrass 542405-542406, 542962
Sugarbeet 542971
Sugarcane 542102-542105, 542394
Sunflower 543006
Sweet potato 542073-542075
TRITICALE 542509-542566
Tagasaste 543808
Tall fescue 542051, 543836-543839, 543929-543931, 544064
Tamarind 543772
Tobacco 543765-543768, 543792, 543922
Tomato 542390
Upland cotton 543858-543868
Watermelon 542112-542123, 542606, 542617, 543212
Waxgourd 542597-542598
West Indian gerkin 543751
West Indian gherkin 542134-542135
Wheat 542466, 542472, 542578-542590
Wheat hybrid 542478-542506
White clover 542813-542816, 544353
White flowered gourd 542610
White lupine 543013-543028, 543031
Wild einkorn 542475
Wild oats 544355-545481
Willow-leaved pear 541998-541995, 541953
Winter rape 542983-542984
Winter wheat 543893
Yambean 543238-543239
Zigzag clover 542833-542838
Acronyms

For space conservation and consistency in identifying locations, the following acronyms have been used Plant Inventory 199:

CIMMYT - Centro Internacional de Mejoramiento de Maiz y Trigo (Mexico)
CIP - Centro Internacional de la Paja (Peru)
IBPGR - International Board for Plant Genetic Resources
ICRISAT - International Crops Research Institute for the Semi-Arid Tropics
IFAS - Institute of Food and Agricultural Science (USA)
INRA - Institut National de la Recherche Agronomique (France)
IITA - International Institute of Tropical Agriculture
USDA-ARS - U.S. Department of Agriculture, Agricultural Research Service (USA)
USDA-SCS - U.S. Department of Agriculture, Soil Conservation Service (USA)
VIR - N.I. Vavilov Institute of Plant Industry (Soviet Union)