Plant Inventory No. 205

Plant Materials Introduced January 1 to December 31, 1996 (Nos. 592562 to 596293)
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(Nos. 592562 to 596293)

R.A. Norris, editor

Plant Inventory No. 205 is a listing of plant materials introduced into the U.S. National Plant Germplasm System during calendar year 1996. It is not a listing of plant material for distribution.

Questions about data organization and proper plant identifications should be directed to the editor: R.A. Norris, National Germplasm Resources Laboratory, 10300 Baltimore Blvd., Bldg., 003, 4th Floor, Beltsville, MD 20705.

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The following were collected by Peter Lawrence, Australian Tropical Field Crops, Genetics Resources Center, P.O. Box 201, Biloela, Queensland 4715, Australia. Received 11/15/1995.

PI 592562. *Sorghum macrospernum* Garber

PI 592563. *Sorghum timorense* (Kunth) Buse

PI 592564. *Sorghum intrans* F. Muell. ex Benth.

PI 592565. *Sorghum intrans* F. Muell. ex Benth.

PI 592566. *Sorghum intrans* F. Muell. ex Benth.

PI 592567. *Sorghum interjectum* Lazarides

Wild. 2034; 243371. Collected 03/12/1994 in Northern Territory, Australia. Latitude 14 deg. 33' 54'' S. Longitude 133 deg. 6' 22'' E. Elevation 120 m. 1.0 km W of Beswick on Beswick Rd near Katherine. Depression. Overstory: Intermittently wet. Understory: Mixed eucalypt
and acacia annual sorghum. Soiltype: Sandy loam. Vigorous annual.


PI 592570. Sorghum extans (Lazarides) P. Beauv.


PI 592572. Sorghum stipoideum (Ewart & Jean White) C. Gardner & C. E. Hubb.


PI 592575. Sorghum stipoideum (Ewart & Jean White) C. Gardner & C. E. Hubb.

Wild. 2045; 243380. Collected 03/12/1994 in Northern Territory,


annual grass. Soiltype: Clay loam. Leaf broad, blue.

PI 592584. Sorghum bulbosum Lazarides

PI 592585. Sorghum bulbosum Lazarides

PI 592586. Sorghum plumosum (R. Br.) P. Beauv.

PI 592587. Sorghum bulbosum Lazarides

PI 592588. Sorghum interjectum Lazarides

PI 592589. Sorghum bulbosum Lazarides

PI 592590. Sorghum bulbosum Lazarides

PI 592591. Sorghum stipoideum (Ewart & Jean White) C. Gardner & C. E. Hubb.
Wild. 2065; 243399. Collected 03/14/1994 in Western Australia, Australia. Latitude 15 deg. 31' 10" S. Longitude 128 deg. 35' 0" E. Elevation
49 m. 0.6 km S of Carlton St gate on Carlton Hill Station Road Kununurra. Plain. Overstory: Melaleuca. Understory: Eucalyptus, annual sorghum. Soiltype: Clay loam. Tall annual.


PI 592593. *Sorghum interjectum* Lazarides


PI 592598. *Sorghum interjectum* Lazarides

Wild. 2072; 243406. Collected 03/14/1994 in Western Australia, Australia. Latitude 15 deg. 34' 39" S. Longitude 128 deg. 14' 4" E. Elevation 12 m. Parry Ck Nature Reserve 2.0 km off Great Northern Hwy near

PI 592599. Sorghum stipoideum (Ewart & Jean White) C. Gardner & C. E. Hubb.

PI 592600. Sorghum stipoideum (Ewart & Jean White) C. Gardner & C. E. Hubb.


PI 592602. Sorghum bulbosum Lazarides

PI 592603. Sorghum interjectum Lazarides

PI 592604. Sorghum interjectum Lazarides

PI 592605. Sorghum interjectum Lazarides

PI 592606. Sorghum interjectum Lazarides
Wild. 2083; 243414. Collected 03/15/1994 in Western Australia, Australia


**PI 592614. Sorghum stipoideum** (Ewart & Jean White) C. Gardner & C. E. Hubb.
Wild. 2095; 243425. Collected 03/16/1994 in Western Australia, Australia. Latitude 18 deg. 45' 1" S. Longitude 126 deg. 0' 48'' E. Elevation 269 m. 82.5 km E of Fitzroy Crossing on Great Northern Hwy. Plain. Overstory: Scattered acacia and eucalypt. Understory: Spinifex, sorghum. Soiltype: Clay loam.

PI 592615. Sorghum interjectum Lazarides

PI 592616. Sorghum bulbosum Lazarides

PI 592617. Sorghum amplum Lazarides

PI 592618. Sorghum bulbosum Lazarides

PI 592619. Sorghum timorense (Kunth) Buse

PI 592620. Sorghum timorense (Kunth) Buse

PI 592621. Sorghum bulbosum Lazarides
PI 592622. *Sorghum bulbosum* Lazarides

PI 592623. *Sorghum interjectum* Lazarides

PI 592624. *Sorghum bulbosum* Lazarides


PI 592626. *Sorghum intrans* F. Muell. ex Benth.

PI 592627. *Sorghum intrans* F. Muell. ex Benth.


PI 592629. *Sorghum intrans* F. Muell. ex Benth.
Wild. 2115; 243443. Collected 03/18/1994 in Northern Territory, Australia. Latitude 13 deg. 15' 24'' S. Longitude 131 deg. 6' 18'' E. Elevation 53 m. 1.5 km S of Stuart Hwy T/O on Old Stuart Hwy near

PI 592630. *Sorghum intrans* F. Muell. ex Benth.

PI 592631. *Sorghum intrans* F. Muell. ex Benth.

PI 592632. *Sorghum exstans* Lazarides

PI 592633. *Sorghum exstans* Lazarides

PI 592634. *Sorghum intrans* F. Muell. ex Benth.

PI 592635. *Sorghum brachypodum* Lazarides

PI 592636. *Sorghum brachypodum* Lazarides


PI 592638. Sorghum timorense (Kunth) Buse


PI 592640. Sorghum timorense (Kunth) Buse
Wild. 2153; 243468. Collected 04/12/1994 in Queensland, Australia. Latitude 17 deg. 55' 21" 11 S. Longitude 140 deg. 55' 0" E. Elevation 23 m. 15.4 km W of Normanton T/O on Burketown Development Rd. Plain.

PI 592641. Sorghum timorense (Kunth) Buse
Wild. 2154; 243469. Collected 04/12/1994 in Queensland, Australia. Latitude 17 deg. 55' 21" S. Longitude 140 deg. 43' 10" E. Elevation 140 m. 46.7 km W of Burketown Development Rd on McAlister Station Rd. Plain.

PI 592642. Sorghum timorense (Kunth) Buse
Wild. 2157; 243471. Collected 04/12/1994 in Queensland, Australia. Latitude 18 deg. 6' 10" S. Longitude 140 deg. 30' 25" E. Elevation 82 m. 24.2 km S of McAlister T/O on Burketown Development Rd. Plain.

PI 592643. Sorghum timorense (Kunth) Buse
Wild. 2157; 243472. Collected 04/12/1994 in Queensland, Australia. Latitude 18 deg. 55' 27" S. Longitude 140 deg. 27' 23" E. Elevation 91 m. 42.8 km S of McAlister T/O on Burketown Development Rd. Plain.

PI 592644. Sorghum timorense (Kunth) Buse

PI 592645. Sorghum timorense (Kunth) Buse
Wild. 2164; 243476. Collected 04/14/1994 in Queensland, Australia.
Latitude 17 deg. 46' 54'' S. Longitude 139 deg. 28' 43'' E. Elevation 4 m. 7.7 km SW of Burketown on Gregory Downs Rd. Plain. Overstory: Treeless. Understory: Perennial and annual grass. Soiltype: Cracking clay.


PI 592648. Sorghum laxiflorum Bailey


PI 592651. Sorghum laxiflorum Bailey

PI 592653. *Sorghum laxiflorum* Bailey


PI 592656. *Sorghum matarankense* Garber & Snyder

PI 592657. *Sorghum laxiflorum* Bailey

PI 592658. *Sorghum timorense* (Kunth) Buse

PI 592659. *Sorghum matarankense* Garber & Snyder

Wild. 2192; 243496. Collected 04/17/1994 in Northern Territory, Australia. Latitude 16 deg. 15' 11'' S. Longitude 136 deg. 4' 19'' E. Elevation 76 m. 39.8 km S of Tableland Hwy T/O on Tableland Hwy. Gully.

PI 592661. *Sorghum timorense* (Kunth) Buse

PI 592662. *Sorghum laxiflorum* Bailey

PI 592663. *Sorghum timorense* (Kunth) Buse

PI 592664. *Sorghum timorense* (Kunth) Buse

PI 592665. *Sorghum timorense* (Kunth) Buse

PI 592666. *Sorghum timorense* (Kunth) Buse

PI 592667. *Sorghum timorense* (Kunth) Buse

PI 592668. *Sorghum timorense* (Kunth) Buse
Wild. 2209; 243506. Collected 04/20/1994 in Queensland, Australia. Latitude 19 deg. 52' 23" S. Longitude 141 deg. 1' 3" E. Elevation 192


PI 592672. Sorghum plumosum (R. Br.) P. Beauv.

PI 592673. Sorghum laxiflorum Bailey

PI 592674. Sorghum laxiflorum Bailey


Latitude 19 deg. 29' 34" S. Longitude 147 deg. 26' 34" E. Elevation 20 m. 10.5 km E of Ayr on Alva Beach Rd. Plain. Overstory: Treeless. Understory: Guinea grass, sorghum. Soiltype: Clay.

Wild. 2221; 243517. Collected 04/22/1994 in Queensland, Australia. 
Latitude 19 deg. 20' 51" S. Longitude 146 deg. 46' 52" E. Elevation 375 m. 0.5 km S of Mt. Stuart lookout on Mt. Stuart Rd, Townsville. 

PI 592678. Sorghum laxiflorum Bailey
Wild. 2223; 243519. Collected 04/22/1994 in Queensland, Australia. 
Latitude 19 deg. 21' 45" S. Longitude 146 deg. 50' 1" E. Elevation 20 m. 0.5 km N of Flinders Hwy on Mt. Stuart Rd, Townsville. 

PI 592679. Sorghum interjectum Lazarides


Wild. 2227; 243536. Collected 05/23/1994 in Australia. Latitude 23 deg. 11' 40" S. Longitude 150 deg. 28' 39" E. Elevation 59 m. 1.6 km N of Bakers Rd, 14 km N of Yeppoon T/O on Bruce Hwy. Grazed paddock. 


PI 592684. Sorghum interjectum Lazarides

PI 592685. Sorghum interjectum Lazarides

PI 592686. Sorghum interjectum Lazarides

PI 592687. Sorghum interjectum Lazarides

PI 592688. Sorghum interjectum Lazarides

PI 592689. Sorghum interjectum Lazarides

PI 592690. Sorghum interjectum Lazarides

PI 592691. Sorghum interjectum Lazarides

PI 592692. Sorghum interjectum Lazarides
PI 592693. *Sorghum intrans* F. Muell. ex Benth.


PI 592696. *Sorghum exstans* Lazarides

PI 592697. *Sorghum intrans* F. Muell. ex Benth.


PI 592699. *Sorghum grande* Lazarides

PI 592700. *Sorghum ecarinatum* Lazarides

PI 592701. *Sorghum timorense* (Kunth) Buse
Wild. 2256; 243575. Collected 04/04/1995 in Australia. Latitude 15 deg. 6' 19'' S. Longitude 133 deg. 4' 34'' E. Elevation 106 m. North side

PI 592702. *Sorghum matarankense* Garber & Snyder

PI 592703. *Sorghum timorense* (Kunth) Buse

PI 592704. *Sorghum laxiflorum* Bailey

PI 592705. *Sorghum angustum* S. T. Blake

PI 592706. *Sorghum laxiflorum* Bailey

PI 592707. *Sorghum angustum* S. T. Blake

PI 592708. *Sorghum laxiflorum* Bailey

PI 592709. *Sorghum angustum* S. T. Blake
Wild. 2275; 243585. Collected 05/16/1995 in Australia. Latitude 14 deg.

PI 592710. Sorghum laxiflorum Bailey

PI 592711. Sorghum angustum S. T. Blake

PI 592712. Sorghum angustum S. T. Blake

PI 592713. Sorghum laxiflorum Bailey

PI 592714. Sorghum laxiflorum Bailey

PI 592715. Sorghum laxiflorum Bailey

PI 592716. Sorghum angustum S. T. Blake

PI 592717. Sorghum angustum S. T. Blake
Wild. 2296; 243597. Collected 05/19/1995 in Australia. Latitude 14 deg. 23' 55" S. Longitude 143 deg. 21' 45" E. 50.0 km N of Musgrave Station on Peninsular Development Rd. Slope. Overstory: Mixed eucalypt

PI 592718. Sorghum angustum S. T. Blake
Wild. 2297; 243598. Collected 05/19/1995 in Australia. Latitude 14 deg. 56' 57'' S. Longitude 143 deg. 33' 20'' E. Windmill Ck crossing 18.8 km S of Musgrave Station on Peninsular Development Rd. Creek bank.

PI 592719. Sorghum angustum S. T. Blake

PI 592720. Sorghum laxiflorum Bailey

PI 592721. Sorghum exstans Lazarides

PI 592722. Sorghum intrans F. Muell. ex Benth.


The following were developed by C.D.M. Sarwar, Pulses Research Center, Bangladesh Agricultural Res. Institute, Gazipur 1701, Bangladesh; Masudul Quader, Pulses Research Center, Bangladesh Agricultural Res. Institute, Gazipur 1701, Bangladesh. Received 01/05/1996.

PI 592724. Lathyrus sativus L.

The following were collected by Charles E. Simpson, Texas A&M University, P. O. Box 292, Stephenville, Texas 76401, United States; Israel G. Vargas C., Museo de Historia Natural "Noel Kempff Mercado", Facultad de Ciencias Agricolas, Universidad Autonoma "Gabriel Rene Moreno", Santa Cruz, Bolivia; David E. Williams, USDA, ARS, Natl. Germplasm Resources Laboratory, Building 003, Room 400, BARC-West, Beltsville, Maryland 20705-2350, United States.
PI 592725. Capsicum sp.
Wild. 1267; aribibi. Collected 05/21/1994 in Santa Cruz, Bolivia. Latitude 19 deg. 32' 6" S. Longitude 63 deg. 13' 49" W. Elevation 850 m. Cordillera. Roadside, 2km south of Rio Saipuru on road to Charagua. Fruits small, red, ovoid, 1cm long, piquant.

PI 592726. Ipomoea sp.

The following were collected by Charles E. Simpson, Texas A&M University, P. O. Box 292, Stephenville, Texas 76401, United States; David E. Williams, USDA, ARS, Natl. Germplasm Resources Laboratory, Building 003, Room 400, BARC-West, Beltsville, Maryland 20705-2350, United States. Received 08/31/1994.

PI 592727. Lycianthes asarifolia (Kunth & C. Bouche) Bitter
Wild. 1278; motojobobo. Collected 05/27/1994 in Santa Cruz, Bolivia. Andres Ibanez. Jardin Botanico de Santa Cruz, ca. 7km east of city on road to Cotoca. Plants herbaceous. Stems prostrate growing at or just below soil surface. Flowers translucent white. Fruits ovoid 1.0-2.5cm long, orange when ripe. Agrestic, commonly tolerated in shaded lawns and chacos. Fruits edible, acid-sweet tasting, often eaten raw especially by children. When abundant, fruits used to prepare "tabilla" candy and preserves. Common.

The following were developed by Rollin G. Sears, Kansas State University, Department of Agronomy, Throckmorton Hall, Manhattan, Kansas 66506-5501, United States; T.S. Cox, USDA, ARS, Plant Science and Entomology Research, Department of Agronomy, Manhattan, Kansas 66506-5501, United States; Bikram S. Gill, Kansas State University, Wheat Genetic Resources Center, Department of Plant Pathology, Manhattan, Kansas 66506, United States; T. Hussien, Kansas State University, Dept. of Plant Pathology, Manhattan, Kansas 66506, United States. Received 01/16/1996.

PI 592728. Triticum aestivum L., nom. cons.

The following were developed by Rollin G. Sears, Kansas State University, Department of Agronomy, Throckmorton Hall, Manhattan, Kansas 66506-5501,
United States; Jimmie H. Hatchett, USDA-ARS, Dept of Entomology, Waters Hall, Manhattan, Kansas 66506-4004, United States; B. Frieb, Kansas State University, Wheat Genetics Resource Center, Dept. of Plant Pathology, Throckmorton Hall, Manhattan, Kansas 66506-5502, United States; E.E. Sebesta, USDA, ARS, 1301 N. Western St., Stillwater, Oklahoma 74075, United States; T.S. Cox, USDA, ARS, Plant Science and Entomology Research, Department of Agronomy, Manhattan, Kansas 66506-5501, United States; Bikram S. Gill, Kansas State University, Wheat Genetic Resources Center, Department of Plant Pathology, Manhattan, Kansas 66506, United States. Received 01/16/1996.


The following were developed by R. J. Lambert, University of Illinois, Dept. of Agronomy, W-203 Turner Hall, Urbana, Illinois 61801-4798, United States. Received 01/16/1996.

PI 592733. *Zea mays* L. ssp. *mays*  
Breeding. Inbred. R228. PL-177. Pedigree - Inbreds Mo17 / Brazil 900. Resistance to leaf blights (Exserohilum turcicum, Bipolaris maydis, Bipolaris zeicola, and Colletotrichum graminicola) and stalk rots (Diplodia maydis, Colletotrichum graminicola, Gibberella zea, and Fusarium moniliforme). Leaf area blighted 25% compared to 63% for Mo17. 8cm taller than Mo17, and tassels and silks 8 days later. Tassels have yellow anthers and pink silks. Ears have 12 to 14 kernel rows with white cobs and semi-dent kernels. AES 900 maturity group.

PI 592734. *Zea mays* L. ssp. *mays*  
Breeding. Inbred. R229. PL-178. Pedigree - B73 / Brazil inbred 479. Multiple resistance to leaf blights (Exserohilum turcicum, Bipolaris maydis, Bipolaris zeicola, and Colletorichum graminicola) and stalk rots (Diplodia maydis, Gibberella zea, and Fusarium moniliforme). Leaf area blighted 67% compared to 78% for B73. Tassels and silks 2 to 4 days later than B73 and has yellow anthers and green silks. Ears have 14-16
kernel rows with white cobs and semi-dent yellow kernels. AES 900 maturity group.

PI 592735. Zea mays L. ssp. mays
Breeding. Inbred. R230. PL-179. Pedigree - B73 / Brazil inbred 509. Multiple resistance to leaf blights (Exserohilum turcicum, Bipolaris maydis, Bipolaris zeicola, and Colletotrichum graminicola) and stalk rots (Diplodia maydis, Gibberella zea, and Fusarium moniliforme). Leaf area blighted 62% compared to 78% for B73. Anthers yellow and silks pink. Tassels and silks about 5 to 7 days later than B73. Ear type similar to B73, but has white cobs with 14-16 kernel rows and hard yellow dent type 509 (Mo17 x 509) Mo17 BC2S kernels. AES 300 maturity group.

The following were donated by Junior Gordon, 7405 Shoals Branch Road, Primm Springs, Tennessee 38476, United States. Received 01/16/1996.

PI 592736. Arachis hypogaea L.
Cultivated. GORDEN ALLEN. Similar in appearance to Tennessee Red with hulls slightly more angular, harder, and higher ridges. Plants with less leaves per stem, bigger leaves, less hair, and slightly stronger taste than Tennessee Red.

The following were collected by J.R. Harlan, USDA-ARS, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Maryland 20705-2350, United States. Received 01/16/1996.

PI 592737. Brassica nigra (L.) Koch

The following were developed by Carl W. Johnson, California Cooperative Rice Research Foundation, Inc., P.O. Box 306, Biggs, California 95917, United States; S.T. Tseng, California Cooperative Rice Research Foundation, Inc., P.O. Box 306, Biggs, California 95917, United States; Kent S. McKenzie, California Cooperative Rice Research Foundation, Inc., P.O. Box 306, Biggs, California 95917, United States; Jeff Oster, California Cooperative Rice Research Foundation, Inc., P.O. Box 306, Biggs, California 95917, United States; J.E. Hill, University of California, Cooperative Extension Service, Dept. of Agronomy & Range Science, Davis, California, United States; D.M. Brandon, California Cooperative Rice Research Foundation, Inc., Biggs, California, United States. Received 01/12/1996.

PI 592738. Oryza sativa L.
Cultivar. Pureline. "S-102"; 91-Y-171; NSGC 6109. CV-104; PVP 9600305. Pedigree - Calpearl/Calmochi 10l//Calpearl. Very early maturing, semidwarf, short grain. High head and total milled yield potential in five years of milling tests. 8% larger and more translucent kernel than S-201, the current California short-grain cultivar of similar quality type. Very similar to S-201 in physicochemical testing but some differences may be associated with the large kernel size. Lower level of chalkiness and average of 17 d earlier than S-201. Pubescent although
not heavily awned. Susceptible to stem rot and aggregate sheath spot. Reaction to diseases not prevalent in California is unknown.

PI 592739. *Oryza sativa* L.
Cultivar. Pureline. "L-204"; 92-Y-093; NSGC 6110. CV-105; PVP 9700052.
Pedigree - Lemont//Tainung-sen-yu 2414/L-201. Early maturing long-grain rice. Photoperiod non-sensitive. Heads an average of 2 and 5 days earlier than L-203 and L-202, respectively. Seedling vigor similar to L-203 and slightly better than L-202. Plants awnless with glabrous leaves and hulls and about 1-2 inches taller than L-202 and L-203 when headed. Lodging resistance similar to L-202 and L-203. Yield more than 3% and 5% higher than L-202 and L-203, respectively. Apparent amylose content about 2% less than L-202 and L-203, and similar to traditional Southern U.S. rice varieties. Intermediate alkali spreading value.

PI 592740. *Oryza sativa* L.

The following were developed by Blaine E. Johnson, University of Nebraska, Department of Agronomy, 326 Keim Hall, Lincoln, Nebraska 68583-0915, United States; Ricardo Preciado-Ortiz, Campo Experimental Bajio, Km. 65, Carr. Celaya-Sn. Miguel, Apdo. Post. 110, Celaya, Guanajuato, Mexico; Donald Hall, University of Nebraska, Dept. of Agronomy, Lincoln, Nebraska 68583-0915, United States. Received 02/28/1996.

PI 592741. *Zea mays* L. ssp. *mays*
Genetic. Inbred. 93Nex307; N801w; 95LN53005. PL-180. Pedigree - Selfed from a population of 50% BSS13, with the other 50% of equal contributions of the CIMMYT populations PR7822, AC7642, Eto Sel Espy Foll, Braquitico, Bco Cristalino, PPMG, V401, and Bco Dentado 2. Evaluated as a line per se at Lincoln, Nebraska. Approximately 67 days from planting to initiation of pollen shed. Silk emergence begins approximately two days after pollen shed begins. Plants approximately 157cm in height with ears 76cm. Ears slightly tapered and contain twelve rows of kernals with no dent, but hard, white vitreous endosperm.

The following were developed by R.S. Albrechtsen, Utah Agr. Exp. Sta., Utah State University, Dept. of Plant Science, Logan, Utah 84322-4820, United States; W. Dewey, Utah State University, Dept. of Plants, Soils, and Biometeorology, Logan, Utah 4820, United States; S.M. Clawson, Utah State University, Dept. of Plants, Soils, and Biometeorology, Logan, Utah 84322-4820, United States; Gus Koerner, Utah State University, Plant Science Dept., Logan, Utah 84322-4820, United States; Bruce Bugbee, Utah State University, Logan, Utah 84322-4820, United States. Received 03/14/1996.
**PI 592742. Triticum aestivum** L., nom. cons.
Cultivar. Pureline. "USU-APOGEE". CV-840. Pedigree - Parula/Super dwarf. Hard red spring dwarf developed for high yields in controlled environments. Selected for short height, high yield, and resistance to calcium-induced tip necrosis. Extremely fast development rate. Heads emerge 21 days after emergence in continuous light with a constant 25 C temperature. Small flag leaves (14 to 20cm long depending on temperature during development). Close correlation between flag leaf size and head size (seeds per head) in yield trials. Resistant to the severe leaf tip necrosis that occurs in rapid growth conditions, particularly continuous light. Leaf tip necrosis (top 30% of the leaf) is associated with calcium-deficiency. Consistently outyields all other full dwarf (less than 0.5 m tall) cultivars tested. In warm temperature conditions (constant 23 C) the yield advantage is about 30%.

The following were developed by Arthur Yates & Co. Pty., Ltd., Rockhampton, Queensland 4700, Australia. Received 03/28/1995.

**PI 592743. Lactuca sativa** L.
Cultivar. "LEO82;PSR2879". PVP 9500283.

The following were developed by Paragon Seed, Inc., United States. Received 03/28/1996.

**PI 592744. Lactuca sativa** L.
Cultivar. "GREEN BEAUTY". PVP 9600110.

The following were developed by Pace Foods, Division of Campbell Soup Company, Texas, United States. Received 03/28/1996.

**PI 592745. Capsicum annuum** L.
Cultivar. "H78-1R". PVP 9600138.

**PI 592746. Capsicum annuum** L.
Cultivar. "HM1-Y". PVP 9600139.

The following were developed by CAS Custom Farming, Inc., dba Holland Cottonseed, United States. Received 03/28/1996.

**PI 592747. Gossypium hirsutum** L.
Cultivar. "HOLLAND 186". PVP 9600141.

The following were developed by Jacob Hartz Seed Company, Inc., Arkansas, United States. Received 03/28/1996.

**PI 592748. Glycine max** (L.) Merr.
Cultivar. "H 4994". PVP 9600142.

**PI 592749. Glycine max** (L.) Merr.
Cultivar. "H 6255". PVP 9600143.

The following were developed by Kimberly Campbell, Ohio State University, Ohio Agric. Res. and Development Center, Dept. of Horticulture & Crop Science, Wooster, Ohio 44691-4096, United States; Robert W. Gooding, Ohio State University, Ohio Agricultural Research & Development Center, Department of Agronomy, Wooster, Ohio 44691-4096, United States; H.N. Lafever, Ohio Agr. Res. and Dev. Center, Ohio State University, Department of Agronomy, Wooster, Ohio 44691-3878, United States; Larry D. Herald, Ohio State University, Dept. of Horticulture and Crop Science, Ohio Agric. Res. and Development Ctr., Wooster, Ohio 44691, United States. Received 03/28/1996.

PI 592750. Triticum aestivum L., nom. cons.

The following were developed by Western Plant Breeders, Phoenix, Arizona, United States. Received 03/28/1996.

PI 592751. X Tritordeum sp.

The following were developed by Pure Line Seeds, Inc., P.O. Box 8866, Moscow, Idaho 83843, United States. Received 03/28/1996.

PI 592752. Pisum sativum L.
Cultivar. "FINNESS". PVP 9600146.

PI 592753. Pisum sativum L.
Cultivar. "LEGACY". PVP 9600147.

The following were developed by Research and Development Institute, Inc., 1711 W. College, Montana State University, Bozeman, Montana 59715, United States. Received 03/28/1996.

PI 592754. Carthamus tinctorius L.
Cultivar. "ERLIN". PVP 9600148.

The following were developed by Turf Seed, Inc., Pure Seed Testing, P.O. Box 250, Hubbard, Oregon 97032, United States.Received 03/28/1996.
PI 592755. Festuca rubra L.
Cultivar. "POLARIS". PVP 9600149.

The following were developed by Jeff P. Tomkins, Clemson University, Department of Agronomy and Soils, 275 Poole Agric. Center Box 340359, Clemson, South Carolina 29634-0359, United States; Emerson R. Shippe, Clemson University, Department of Agronomy and Soils, 275 Poole Agricultural Center, Clemson, South Carolina 29634-0359, United States; J.D. Mueller, Edisto Res. and Educ. Ctr., Dept. of Plant Pathology and Physiology, Blackville, South Carolina 29817, United States; P.F., Jr. Williams, Clemson University, Dept. of Agronomy, Clemson, South Carolina 29634, United States; Stephen Lewis, Clemson University, Dept. of Plant Pathology & Physiology, Clemson, South Carolina 29634-0377, United States. Received 03/28/1996.

PI 592756. Glycine max (L.) Merr.
Cultivar. Pureline. "Dillon"; SC84-931. CV-368; PVP 9600151. Pedigree - Centennial X Young. Maturity group VI that matures from mid to late October in the southern USA. Growth habit determinate. Flowers purple, gray pubescence, and tan pod walls at maturity. Mature plants average 75-85 cm in height. Seed size 14.5g 100 seed-1. Seeds yellow with buff hila color varying in intensity from light to dark. Seed protein and oil average 424 and 207g kg-1 seed, respectively. Resistant to southern root-knot nematode (Meloidogyne incognita). Resistant to foliar diseases bacterial pustule (Xanthomonas campestris), soybean mosaic virus, and races of frogeye leaf spot (Cercospora sojina) prevalent in the southern USA. Susceptible to soybean cyst nematode (Heterodera glycines).

The following were developed by Seed Research of Oregon, Inc., Corvallis, Oregon, United States. Received 03/28/1996.

PI 592757. Festuca rubra ssp. fallax (Thuill.) Nyman
Cultivar. "SANDPIPER". PVP 9600152.

The following were developed by Jerome D. Franckowiak, North Dakota State University, Department of Plant Sciences, P.O. Box 5051, Fargo, North Dakota 58105-5051, United States; Brian J. Steffenson, North Dakota State University, Department of Plant Pathology, P.O. Box 5012, Fargo, North Dakota 58105-5012, United States; Richard Horsley, North Dakota State University, Dept of Plant Sciences, Fargo, North Dakota 58105-5051, United States; P.B. Schwarz, North Dakota State University, Dept. of Cereal Science, Fargo, North Dakota 58105-5051, United States. Received 03/28/1996.

PI 592758. Hordeum vulgare L. ssp. vulgare
Cultivar. Pureline. "FOSTER". CV-268; PVP 9600154. Pedigree - Robust/6/Glenn/4/Nordic//Dickson/Trophy/3/Azure/5/Glenn/Karl. Released 1995.awns semi-smooth. Kernels covered. Rachilla hairs long. Aleurone white. 4 cm shorter, heads 1 d earlier, better straw, and yields about 5% more than Robust. Resistant to spot blotch (Cochliobolus sativus) and prevalent pathotypes of wheat stem rust (Puccinia graminis f. sp. tritici) in Midwest U.S. except Pgt-QCC. Moderately susceptible to net blotch (Pyrenophora teres), and susceptible to loose smut (Ustilago
Percent grain protein up to 1.5 percentage units lower than Robust.

The following were developed by NDSU Research Foundation, North Dakota, United States. Received 03/28/1996.

Cultivar. "GLUPRO". PVP 9600155. Hard red spring type.

The following were developed by Robert K. Bacon, University of Arkansas, Dept. of Agronomy, 115 Plant Science Bldg., Fayetteville, Arkansas 72701, United States. Received 03/28/1996.

PI 592760. Triticum aestivum L., nom. cons.
Cultivar. "JAYPEE". PVP 9600156.

The following were developed by NDSU Research Foundation, North Dakota, United States. Received 03/28/1996.

Cultivar. "ERNEST". PVP 9600157. Hard red spring type.

PI 592762. Zea mays L. ssp. mays
Cultivar. "ND277". PVP 9600160.

PI 592763. Zea mays L. ssp. mays
Cultivar. "ND278". PVP 9600161.

PI 592764. Zea mays L. ssp. mays
Cultivar. "ND279W". PVP 9600162.

The following were developed by Pioneer Hi-Bred International, Inc., United States. Received 03/28/1996.

PI 592765. Zea mays L. ssp. mays
Cultivar. "PH15A". PVP 9600163.

PI 592766. Zea mays L. ssp. mays
Cultivar. "PH18E". PVP 9600164.

PI 592767. Zea mays L. ssp. mays
Cultivar. "PH19A". PVP 9600165.

PI 592768. Zea mays L. ssp. mays
Cultivar. "PH20A". PVP 9600166.

PI 592769. Zea mays L. ssp. mays
Cultivar. "PH25A". PVP 9600167.

PI 592770. Zea mays L. ssp. mays
Cultivar. "PH39A". PVP 9600168.
PI 592771. Zea mays L. ssp. mays
Cultivar. "PH40B". PVP 9600169.

PI 592772. Zea mays L. ssp. mays
Cultivar. "PH41E". PVP 9600170.

PI 592773. Zea mays L. ssp. mays
Cultivar. "PH44A". PVP 9600171.

PI 592774. Zea mays L. ssp. mays
Cultivar. "PH47A". PVP 9600172.

PI 592775. Zea mays L. ssp. mays
Cultivar. "PH63A". PVP 9600173.

PI 592776. Zea mays L. ssp. mays
Cultivar. "PH63B". 9600174.

PI 592777. Zea mays L. ssp. mays
Cultivar. "PH67A". PVP 9600175.

PI 592778. Zea mays L. ssp. mays
Cultivar. "PH80B". PVP 9600176.

PI 592779. Zea mays L. ssp. mays
Cultivar. "PHFW4". PVP 9600177.

PI 592780. Zea mays L. ssp. mays
Cultivar. "PHND1". PVP 9600178.

PI 592781. Zea mays L. ssp. mays
Cultivar. "PHRF1". PVP 9600179.

The following were developed by Del Monte Corporation, California, United States. Received 03/28/1996.

PI 592782. Phaseolus vulgaris L.
Cultivar. "DMC 04-05". PVP 9600181.

PI 592783. Phaseolus vulgaris L.
Cultivar. "DMC 04-80". PVP 9600182.

The following were developed by NDSU Research Foundation, North Dakota, United States. Received 03/28/1996.

PI 592784. Hordeum vulgare L.
Cultivar. "LOGAN". PVP 9600183.

The following were developed by South Dakota Agr. Exp. Sta., South Dakota, United States. Received 03/28/1996.
Cultivar. "RUSS". PVP 9600184.

The following were developed by Nunhems Zaden B.V., Haelen Lb., Netherlands. Received 03/28/1996.

PI 592786. *Phaseolus vulgaris* L.
Cultivar. "SAURUS". PVP 9600185.

The following were developed by Barham Seeds, Inc., 7080 Yorktown Drive, Gilroy, California 95021, United States. Received 03/28/1996.

PI 592787. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Cultivar. "R26". PVP 9600186.

The following were developed by Pybas Vegetable Seed Co., Inc., United States. Received 03/28/1996.

PI 592788. *Lactuca sativa* L.
Cultivar. "GOLIATH". PVP 9600187.

The following were developed by Kaneko Seeds Co., Ltd., Maebashi City, Japan. Received 03/28/1996.

Cultivar. "Akibiyori". PVP 9600188.

Cultivar. "Suzunishiki". PVP 9600189.

The following were developed by Jeff Wilson, USDA, ARS, Forage & Turf Research, Georgia Coastal Plain Experiment Station, Tifton, Georgia 31793, United States; Glenn W. Burton, USDA, ARS, Forage & Turf Research, Georgia Coastal Plain Experiment Station, Tifton, Georgia 31793, United States; Wayne W. Hanna, USDA, ARS, Coastal Plains Experiment Station, P.O. Box 748, Tifton, Georgia 31793, United States; R.N. Gates, USDA, ARS, Coastal Plain Exp. Sta., Tifton, Georgia 31793, United States; G.M. Hill, University of Georgia, Dept. of Animal Science, Coastal Plain Exp. Stn., Tifton, Georgia 31793, United States. Received 03/28/1996.

PI 592791. *Pennisetum glaucum* (L.) R. Br.
Cultivar. "TIFLEAF 3". CV-14; PVP 9600190. Pedigree - 3-way dwarf hybrid between dwarf cytoplasmic-nuclear male sterile single cross F1 hybrid Tift 8593 and dwarf pollinator, Tift 383. Semi-dwarf reaching height of 222cm compared to 224cm for Tifleaf 2 at same planting date. Forage yields and in vitro dry matter digestibility similar to Tifleaf 2. Better rust (Puccinia substriata) resistance (P=0.05) than Tifleaf 2. Heifers grazing produced gains equal to those grazing Tifleaf 2. Yield of commercial hybrid seed can usually be doubled by producing hybrid seed on Tift 8593 instead of on inbred Tift 85DA1.
PI 592792. *Pennisetum glaucum* (L.) R. Br. 
Cultivar. Inbred. "TIFT 93". PL-28; PVP 9600191. Pedigree - Derived from a pollen shedding plant selected from 89 plants of a pearl millet cms Tift 23D(2)A(1) x MN2 (2n=6x=42) (pearl millet x napiergrass interspecific hybrid) cross. Dwarf inbred averaging 122cm in height at maturity. Flowers 71 and 85 days after June 30 and May 7 planting dates, respectively. Seeds brownish gray. Sheds abundant pollen. Can be used to produce a cytoplasmic-nuclear male sterile (cms) F1 hybrid that produces twice as much commercial hybrid seed as produced on an inbred.

The following were developed by Lloyd R. Nelson, Texas Agricultural Experiment Station, The Texas A&M University System, Agricultrual Research and Extension Center, Overton, Texas 75684-0290, United States. Received 08/01/1995.


The following were developed by David S. Marshall, Texas A&M University, Research & Extension Center, 17360 Coit Road, Dallas, Texas 75252-6599, United States. Received 08/01/1995.


The following were developed by Ron D. Barnett, University of Florida, North Florida Res. & Ed. Center, R.#3, Box 4370, Quincy, Florida 32351, United States. Received 08/01/1995.


The following were developed by Robert I. Wolfe, Agriculture and Agri-Food Canada, Field Crop Development Centre, 5030 - 50 Street, Lacombe, Alberta T4L 1W8, Canada; J.G.N. Davidson, Agriculture and Agri-Food Canada, Box 748, Beaverlodge, Alberta TOH OCO, Canada; S.M. Dofing, Agricultural and Forestry Experiment Station, 533 E. Fireweed, Palmer, Alaska 99645, United States; Philip Clarke, Agriculture & Agri-Food Canada, 195 Dafoe Road, Winnipeg, Manitoba R3T 2M9, Canada. Received 01/23/1996.
PI 592796. Hordeum vulgare L. ssp. vulgare
Cultivar. Pureline. "AC ALBRIGHT"; PGR27320; BT670; 3703. CV-263.

The following were developed by Robert I. Wolfe, Agriculture and Agri-Food Canada, Field Crop Development Centre, 5030 - 50 Street, Lacombe, Alberta T4L 1W8, Canada; J.G.N. Davidson, Agriculture and Agri-Food Canada, Box 748, Beaverlodge, Alberta TOH OCO, Canada; Philip Clarke, Agriculture & Agri-Food Canada, 195 Dafoe Road, Winnipeg, Manitoba R3T 2M9, Canada; D.G. Faris, Agriculture and Agri-Food Canada, 3946 Morgan St., Victoria, British Columbia V8X 3Z0, Canada. Received 01/23/1996.

PI 592797. Hordeum vulgare L. ssp. vulgare
Cultivar. Pureline. "AC STACEY"; PGR26729; 3172; NRGB84-8; BT664; BT663.

PI 592798. Hordeum vulgare L. ssp. vulgare

The following were developed by Robert I. Wolfe, Agriculture and Agri-Food Canada, Field Crop Development Centre, 5030 - 50 Street, Lacombe, Alberta T4L 1W8, Canada; Ken Campbell, Agriculture Canada, Plant Research Centre, Bldg 75, Plant Gene Resources, Ottawa, Ontario K1A 0C6, Canada; R.B. Irvine, Saskatchewan Irrigation Development Centre, Outlook, Saskatchewan S0L 2N0,
Canada. Received 04/11/1980.

**PI 592799. Hordeum vulgare L. ssp. vulgare**


The following were developed by Carl A. Griffey, Virginia Polytechnic Institute & State University, Dept. of Crop, Soil, & Environmental Sciences, 334-A Smyth Hall, Blacksburg, Virginia 24061-0404, United States; T. M. Starling, Virginia Polytechnic Inst. and State Univ., Virginia Agr. Exp. Sta., Department of Agronomy, Blacksburg, Virginia, United States; A.M. Price, VPI & SU, Crop & Soil Environmental Sciences, Blacksburg, Virginia, United States; W.L. Sisson, VPI & SU, Crop & Soil Environmental Sciences, Blacksburg, Virginia, United States; D.E. Brann, VPI & SU, Crop & Soil Environmental Sciences, Blacksburg, Virginia, United States. Received 01/23/1996.

**PI 592800. Hordeum vulgare L. ssp. vulgare**

Cultivar. Pureline. "CALLAO"; VA 90-41-14. CV-267; PVP 9600260. Pedigree - Boone/Henry//Sussex. Released 1994. Short statured, early maturing, six-row winter feed barley with semi-compact spikes possessing awns of intermediate length. Head emergence (Julian=105 d) very early, similar to Sussex and 8 d earlier than Boone. Plant height (33 inches) 7-8 inches shorter than Sussex and Boone. Straw strength fair, similar to Boone. Moderate winter hardiness, and hardier than Sussex or Boone. Kernels very plump and exceptional grain volume weight (51 lb/bu), being 3 lb/bu higher than Boone. Resistant to powdery mildew (Blumeria graminis) and barley yellow dwarf, and superior to Boone in this respect. More resistant to leaf rust (Puccinia hordei) than Sussex and Boone but moderately susceptible to race 30.

The following were developed by Peggy Thaxton, Texas A&M University, Texas A&M University, Dept. of Soil and Crop Science, College Station, Texas 77843, United States; Kamal M. El-Zik, Texas A&M University, Department of Soil & Crop Sciences, College Station, Texas 77843, United States. Received 01/23/1996.

**PI 592801. Gossypium hirsutum L.**

potential than previously released Tamcot cultivars. Fiber length averages 1.07 inches, strength 28.8 g/tex, elongation 7.2, and micronaire 4.8. Higher levels of resistance to insects and diseases than those reported for Tamcot CAMD-E.

The following were developed by Jim Shine, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States; B. Glaz, USDA, ARS, Sugarcane Field Station, Canal Point, Florida 33438, United States; P.Y.P. Tai, USDA-ARS, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States; Christopher W. Deren, University of Florida, Institute of Food and Agriculture, EREC Box 8003, Belle Glade, Florida 33430, United States; Jimmie D. Miller, USDA, ARS, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States; Jack C. Comstock, USDA-ARS, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States. Received 01/23/1996.

**PI 592802. Saccharum hybrid**
Cultivar. "CP 84-1591". CV-103. Pedigree - Complex hybrid of Saccharum officinarum, S. barberi, S. spontaneum, and S. sinense selected from CP 72-1370 / CP 68-1022. Released as a sand land sugarcane. Stalk diameter large. Cane yield equals or exceeds check cultivars. Sugar concentration slightly less than check varieties. Adequate resistance to sugarcane mosaic virus, leaf scald (Xanthomonas albilineans), eye spot (Bipolaris sacchari), smut (Ustilago scitaminea) and rust (Puccinia melanocephala). Vegetatively propagated.

The following were donated by Instituto Nacional de Tecnologia Agropecuaria, EEA El Colorado, Formosa R.A.C.C. 5 3603, Argentina. Received 12/07/1993.

**PI 592803. Acroceras macrum** Stapf
Uncertain. BE-5018; Q 32741.

The following were donated by Burrell Seed Growers, Colorado, United States. Received 1961.

**PI 592804. Capsicum annuum** L.
Cultivated. BURRELLS ROCKY FORD.

The following were donated by Seed Research Specialists, California, United States. Received 1961.

**PI 592805. Capsicum annuum** L.
Cultivated. CHILE BOLITO.

The following were donated by Vaughan-Jacklin Corporation, 5300 Katrine Avenue, Downer's Grove, Illinois 60515, United States. Received 1965.

**PI 592806. Capsicum annuum** L.
Cultivated. SUNNYBROOK.
The following were donated by Ferry-Morse Seed Company, United States. Received 1961.

**PI 592807. Capsicum annuum L.**
Cultivated. SWEET YELLOW LONG.

The following were donated by Vaughan-Jacklin Corporation, 5300 Katrine Avenue, Downer's Grove, Illinois 60515, United States. Received 1961.

**PI 592808. Capsicum annuum L.**
Cultivated. WISCONSIN LAKES.

The following were donated by Ferry-Morse Seed Company, United States. Received 1961.

**PI 592809. Capsicum annuum L.**
Cultivated. WONDERGREEN.

The following were donated by New Mexico Crop Imp. Assoc., New Mexico, United States. Received 1962.

**PI 592810. Capsicum annuum L.**
Cultivated. SANDIA A.

**PI 592811. Capsicum annuum L.**

The following were donated by Petoseed Company, California, United States. Received 1962.

**PI 592812. Capsicum annuum L.**
Cultivated. HUNGARIAN YELLOW WAX HOT.

**PI 592813. Capsicum annuum L.**
Cultivated. RED CHERRY LARGE HOT.

**PI 592814. Capsicum annuum L.**
Cultivated. RED CHERRY SMALL HOT.

**PI 592815. Capsicum annuum L.**
Cultivated. CHERRY SWEET.

The following were donated by Joseph Harris Company, Inc., Moreton Farm, Rochester, New York 14624, United States. Received 1962.

**PI 592816. Capsicum annuum L.**
Cultivated. SWEET BANANA.
The following were donated by Robinson & Sons, Lawrence, California, United States. Received 1962.

**PI 592817. Capsicum annuum L.**
Cultivated. CALIFORNIA WONDER M R.

The following were donated by Ferry-Morse Seed Company, California, United States. Received 1962.

**PI 592818. Capsicum annuum L.**
Cultivated. BULGARIAN.

**PI 592819. Capsicum annuum L.**
Cultivated. YELLOW SWEET LONG.

The following were donated by Seed Research Specialists, California, United States. Received 1962.

**PI 592820. Capsicum annuum L.**
Cultivated. HUNGARIAN YELLOW WAX HOT.

**PI 592821. Capsicum annuum L.**
Cultivated. PIMIENTO.

The following were donated by Kuner-Empson Canning, Colorado, United States. Received 1962.

**PI 592822. Capsicum annuum L.**
Cultivated. KUNERS SWEET CHERRY.

The following were donated by Ferry-Morse Seed Company, United States. Received 1963.

**PI 592823. Capsicum annuum L.**
Cultivated. WORLD BEATER.

The following were donated by Wyoming USDA, ARS, Wyoming, United States. Received 1977.

**PI 592824. Capsicum annuum L.**
Cultivated. WINDSOR A.

The following were donated by Burgess Seed and Plant Company, Galesburg, Michigan, United States. Received 1964.

**PI 592825. Capsicum annuum L.**
Cultivated. KING OF THE NORTH.
The following were donated by Illinois Agr. Exp. Sta., University of Illinois, Urbana, Illinois 61801, United States. Received 1964.

**PI 592826. Capsicum annuum** L.  

The following were donated by Corneli, Missouri, United States. Received 1964.

**PI 592827. Capsicum annuum** L.  
Cultivated. **SWEET BANANA.**

The following were donated by W. Atlee Burpee Company, United States. Received 1964.

**PI 592828. Capsicum annuum** L.  
Cultivated. **LARGE CHERRY.**

**PI 592829. Capsicum annuum** L.  
Cultivated. **PIMIENTO TRUHART.**

The following were donated by Petoseed Company, California, United States. Received 1964.

**PI 592830. Capsicum annuum** L.  
Cultivated. **CALIFORNIA WONDER M R.**

The following were donated by Farmer Seed Nursery Company, Fairbault, Minnesota, United States. Received 1965.

**PI 592831. Capsicum annuum** L.  
Cultivated. **SWEET CHOCOLATE.**

The following were donated by H.G. Hastings Company, Atlanta, Georgia, United States. Received 1965.

**PI 592832. Capsicum annuum** L.  
Cultivated. **IMPROVED TRUHART PIMENTO.**

**PI 592833. Capsicum annuum** L.  

The following were donated by Petoseed Company, California, United States.
PI 592834. Capsicum annuum L.
Cultivated. TITAN. Tall plant (26-32"), medium spreading, good yield and set. Large foliage. Resistant to tobacco mosaic virus. 4-lobed, blocky fruit, medium green with glossy sheen, pendulous. Petoseed, Saticoy, California, Nov. 1965.

The following were donated by Ferry-Morse Seed Company, United States. Received 1968.

PI 592835. Capsicum annuum L.
Cultivated. YOLO WONDER 43.

The following were donated by Farmer Seed Nursery Company, Fairbault, Minnesota, United States. Received 1970.

PI 592836. Capsicum annuum L.

The following were donated by W. Atlee Burpee Company, United States. Received 1971.

PI 592837. Capsicum annuum L.
Cultivated. CHINESE GIANT.

The following were donated by K. Kmiecik, J. W. Jung Seed Company, Randolph, Wisconsin 53956, United States. Received 1979.

PI 592838. Capsicum annuum L.
Cultivated. 347 YELLOW BELLE.

The following were developed by Ken F. Grafton, North Dakota State University, Plant Sciences Department, P.O. Box 5051 SU Station, Fargo, North Dakota 58105-5051, United States; K.C. Chang, North Dakota State University, Dept. of Food and Nutrition, Gargo, North Dakota 58105, United States; J.R. Venette, North Dakota State University, Dept. of Plant Pathology, Fargo, North Dakota 58105, United States. Received 01/24/1996.

PI 592839. Phaseolus vulgaris L.
Cultivar. Pureline. "HATTON". CV-133; PVP 9600109. Pedigree - 83-003A/40842//83B229/3/5-383/83003/4/T295/TOPAZ. Similar in appearance to most traditional pinto cultivars. Maturity medium-early, approx. 94 days. Flowers white, semi-prostrate (Type IIIa) architecture. Pods cluster near base of plant and are not distributed equally throughout the plant profile. Erect canopy, height approx. 47cm. Seed acceptable pinto shape and color, but consistently larger than many pinto cultivars. Resistant to pathogroups I, II, III, IV, and VII of bean common mosaic virus. Moderately resistant to susceptible reactions to
bean rust (Uromyces appendiculatus). Susceptible to white mold (Sclerotinia sclerotiorum).

The following were developed by Robert L. Anderson, Cornell University, New York Agr. Exp. Station, Dept. of Horticultural Sciences, Geneva, New York 14456-0462, United States. Received 02/21/1995.

**PI 592840. Prunus cerasus** L.
Cultivar. "Surefire"; 29-2-44; GPRU 1. Collected in New York, United States. Pedigree - Borchert Black Sour x NY 6935 (Richmorency x Schattenmorelle). Late blooming tart cherry. Fruit: symmetrical, slight cordate; 24mm diam. x 20mm long; skin and flesh bright red; pit oblong-conic, small. Strong cherry flavor. Firmness similar to Montmorency; slightly more acid than Montmorency. Fruit ripens 65 days after full bloom. No rain-induced cracking. Tree: medium vigor, semi-upright, with relatively few branches. Cropping on spurs and previous season's growth; self-fruitful; flowers 5 to 7 days after Montmorency.

The following were developed by W.A. Alderman, Near East Foundation, Salonica, Greece. Donated by Gaylord Mink, Washington State University, Irrigated Agricultural Res. & Ext. Ctr., Route 2, Box 2953-A, Prosser, Washington 99350, United States. Received 02/24/1995.

**PI 592841. Prunus cerasus** L.

The following were donated by Gaylord Mink, Washington State University, Irrigated Agricultural Res. & Ext. Ctr., Route 2, Box 2953-A, Prosser, Washington 99350, United States. Received 02/24/1995.

**PI 592842. Prunus fruticosa** Pallas
Cultivar. "Dwarfrich"; IR 258-3-3; GPRU 3.

**PI 592843. Prunus fruticosa** Pallas
Uncertain. IR 323-2-3; GPRU 4; P. fruticosa.

**PI 592844. Prunus cerasus** L.
Cultivar. "Del Nord"; IR 1141-1-1; GPRU 5.

**PI 592845. Prunus cerasus** L.

**PI 592846. Prunus cerasus** L.
Landrace. "Schatten Morello"; IR 1049-1-1; GPRU 7. Collected in Germany.

**PI 592847. Prunus cerasus** L.
Cultivar. "English Morello"; IR 93-3-3; GPRU 8. Collected in Germany.

The following were developed by W.A. Alderman, Near East Foundation,

PI 592848. Prunus cerasus L.

The following were donated by Gaylord Mink, Washington State University, Irrigated Agricultural Res. & Ext. Ctr., Route 2, Box 2953-A, Prosser, Washington 99350, United States. Received 02/24/1995.

PI 592849. Prunus cerasus L.
Cultivar. "Mesabi"; IR 1270-1; GPRU 10.

PI 592850. Prunus fruticosa Pallas
Uncertain. IR 881-2-1; GPRU 11; P. fruticosa (FR2).

PI 592851. Prunus fruticosa Pallas
Uncertain. IR 880-1-1; GPRU 12; P. fruticosa (FR1).

PI 592852. Prunus fruticosa Pallas
Uncertain. IR 882-1-1; GPRU 13; P. fruticosa (FR8).

The following were collected by Ralph Scorza, USDA, ARS, Appalachian Fruit Research Station, Route 2, P.O. Box 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Received 03/01/1995.

PI 592853. Prunus cerasus L.

The following were donated by Inst. Sadowictwa Kwiatkawstwa, 96-100 Skierniewice, Pomologiczna 18, Poland. Received 03/01/1995.

PI 592854. Prunus cerasus L.
Cultivar. "Pozog 29"; Q24290B; GPRU 20.

The following were donated by Gaylord Mink, Washington State University, Irrigated Agricultural Res. & Ext. Ctr., Route 2, Box 2953-A, Prosser, Washington 99350, United States. Received 03/08/1995.

PI 592855. Prunus cerasus L.
Cultivar. "Englaise Timpurii"; 26e-6-24; GPRU 23. Collected in Romania.

The following were developed by J. Apostol, Enterprise for Research and Extension, Budapest, Hungary. Donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592856. Prunus cerasus L.
Pedigree - Pandy 38 x Nagy Angol.

The following were donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592857. Prunus cerasus L.

PI 592858. Prunus cerasus L.

PI 592859. Prunus cerasus L.

The following were developed by J. Apostol, Enterprise for Research and Extension, Budapest, Hungary. Donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592860. Prunus cerasus L.

The following were donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592861. Prunus cerasus L.

The following were developed by J. Apostol, Enterprise for Research and Extension, Budapest, Hungary. Donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592862. Prunus cerasus L.

The following were donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592863. Prunus cerasus L.
Cultivar. "Cerise Magnifique de Sceaux"; RS-3-7; GPRU 31. Collected in France.
PI 592864. Prunus cerasus L.
Cultivar. "Meteor Korai"; 26e-6-28; GPRU 32. Collected in Hungary.
Pedigree - Pandy x Nagy Angol.

The following were donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592865. Prunus cerasus L.

PI 592866. Prunus cerasus L.
Cultivar. "Steinsbar"; 26-2-2; GPRU 34. Collected in Denmark.

PI 592867. Prunus cerasus L.
Landrace. "Pandy 114"; 26e-6-26; GPRU 35. Collected in Hungary.

The following were developed by J. Apostol, Enterprise for Research and Extension, Budapest, Hungary. Donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592868. Prunus cerasus L.
Cultivar. "Erdi Jubileum"; 26-12-2; GPRU 36. Collected in Hungary.
Pedigree - Pandy 38 x Eugenia.

The following were donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592869. Prunus cerasus L.

PI 592870. Prunus cerasus L.

PI 592871. Prunus cerasus L.
Pedigree - Heimann's Conserve x UNKNOWN.

PI 592872. Prunus cerasus L.
Cultivar. "Studencheskaja"; IV-6-15; GPRU 40.

PI 592873. Prunus cerasus L.
PI 592874. Prunus cerasus L.

The following were developed by J. Apostol, Enterprise for Research and Extension, Budapest, Hungary. Donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, Lansing, Michigan 48823, United States. Received 03/08/1995.

PI 592875. Prunus cerasus L.

PI 592876. Prunus cerasus L.
Cultivar. "Favorit"; IV-10-54; GPRU 44. Collected in Hungary. Pedigree - Pandy x Montreuilli.

PI 592877. Prunus cerasus L.
Cultivar. "Kelleris 16"; 26e-6-19; GPRU 45. Collected in Denmark. Pedigree - Ostheimer x Fruhestabe der Mark.

PI 592878. Prunus cerasus L.
Cultivar. "Ujgeherto Furtos"; II-30-40; GPRU 46. Collected in Hungary.

PI 592879. Prunus cerasus L.

PI 592880. Prunus cerasus L.
Cultivar. "Nefris"; RS-2-3; GPRU 48. Collected in Poland.

PI 592881. Prunus cerasus L.
Landrace. "Lubskaya"; II-14-9; GPRU 49. Collected in Russian Federation.

PI 592882. Prunus cerasus L.

PI 592883. Prunus cerasus L.
Cultivar. "Ferracida"; 26-1-2; GPRU 51. Collected in Italy.
PI 592884. Prunus fruticosa Pallas
Wild. "BMT 3"; 26e-1-4; GPRU 52. Collected in Hungary.

PI 592885. Prunus fruticosa Pallas

PI 592886. Prunus fruticosa Pallas
Wild. "Bt 1"; 26e-1-51; GPRU 54. Collected in Hungary.

PI 592887. Prunus fruticosa Pallas

PI 592888. Prunus fruticosa Pallas

PI 592889. Prunus fruticosa Pallas

PI 592890. Prunus cerasus L.

The following were developed by Wayne W. Hanna, USDA, ARS, Coastal Plains Experiment Station, P.O. Box 748, Tifton, Georgia 31793, United States. Received 03/28/1996.

PI 592891. Pennisetum glaucum (L.) R. Br.
Cultivar. "TIFT 8593". GS-2; PVP 9600192. Pedigree - Cytoplasmic nuclear male sterile (cms) F1 hybrid from the cross Tift 85DA4 / Tift 93. Produces up to twice as much commercial hybrid seed when pollinated with inbreds Tift 383 to produce Tifleaf 3 as does Tift 85DA4 alone. Seeds brownish-gray. Inflorescences about 27cm long compared with 16cm for Tift 85DA4. Flowers approx. 71 and 84 days after June 30 and May 7, respectively.

The following were developed by Northrup King Company, 1500 Jackson N.E., Minneapolis, Minnesota 55413, United States. Received 03/28/1996.

PI 592892. Glycine max (L.) Merr.
Cultivar. "S08-80". PVP 9600193.

PI 592893. Glycine max (L.) Merr.

PI 592894. Glycine max (L.) Merr.
Cultivar. "S23-06". PVP 9600195.

The following were developed by Hisparroz, S.A., Spain. Received 03/28/1996.

PI 592895. Oryza sativa L.
Cultivar. "ISLA". PVP 9600196.
PI 592896. Oryza sativa L.
Cultivar. "DENOSA". PVP 9600197.

The following were developed by Carl S. Hoveland, University of Georgia, College of Agric. & Environmental Sci., Department of Crop and Soil Sciences, Athens, Georgia 30602-7272, United States; Joseph H. Bouton, University of Georgia, Department of Crop & Soil Sciences, 3111 Plant Sciences Building, Athens, Georgia 30602, United States; Ronny R. Duncan, University of Georgia, Georgia Agricultural Exp. Station, Department of Agronomy, Griffin, Georgia 30223-1797, United States; R.N. Gates, USDA, ARS, Coastal Plain Exp. Sta., Tifton, Georgia 31793, United States; D.T. Wood, University of Georgia, Dept. of Crop and Soil Sciences, Athens, Georgia 30602, United States; University of Georgia Research Foundation, Inc., Georgia, United States. Received 03/23/1996.

PI 592897. Festuca arundinacea Schreber
Cultivar. "JESUP"; GA-Jesup Improved; GA-Jesup Improved-EI; GA-Jesup Improved-EF. CV-60; PVP 9600391. Pedigree - 15 clone synthetic originating from Kentucky 31 tall fescue. Adapted to the southeastern U.S. and low maintenance, marginal areas of the tall fescue transition zone. Intended for use as forage and turf. Average heading date equal to Georgia 5 and Kentucky 31, but earlier than Rebel and later than AU Triumph. Endophyte-infected (EI), consistently demonstrated better long term plant stand survival than Kentucky 31 (EI) and as good or better survival than Georgia 5. Endophyte-free (EF), showed better ability than AU Triumph to maintain stands after harsh summer conditions, and to give steer gains similar to alfalfa in low-maintenance turf conditions. Endophyte-infected demonstrated more persistence and a superior ability to retain stands than either Kentucky 31 (EI) or Rebel.

The following were developed by Jorge A. Acosta-Gallegos, National Research Institute for Forestry Agriculture, CIRNOC-INIFAP-SARAH, Bean Program, Valle de Mexico Experimental Station, Chapingo, Mexico 56230, Mexico; E. Lopez-Salinas, National Research Institute for Forestry, Agric. & Livestock, Bean Program, Cotaxtla Exp. Stn., Veracruz, Veracruz CP 91700, Mexico; E.N. Becerra-Leor, National Research Institute for Forestry, Agric. & Livestock, Bean Program, Cotaxtla Exp. Sta., Veracruz, Veracruz CP 91700, Mexico; G. Frayre-Vazquez, National Research Institute for Forestry, Agric. & Livestock, Izapa Exp. Stn., Apdo. Postal 50, Tapachula, Chiapas, Mexico; S.H. Orozco, Centro Internacional de Agricultura Tropical, Apdo. Aereo 6713, Cali, Colombia; S.E. Beebe, Centro Internacional de Agricultural Tropical, Apdo. Aereo 6713, Cali, Colombia. Received 03/19/1996.

PI 592898. Phaseolus vulgaris L.
Cultivar. "NEGRO TACANA"; DOR390. CV-138. Pedigree - (DOR 364/G 18521)/(DOR 365/LM30630). Indeterminate type II growth habit adapted to lowland tropics of Mexico and Central America. Resistant to Bean Golden Mosaic Virus and anthracnose and tolerant to rust and angular leaf spot. Average flowering and maturity dates are 38 and 90 days after planting.

The following were collected by S.M. Lim, USDA, ARS, University of Illinois,
PI 592899. Glycine max (L.) Merr.  
Cultivated. SY 930166. Collected 02/03/1989 in China.

PI 592900. Glycine max (L.) Merr.  
Cultivated. SY 930168. Collected 02/03/1989 in China.

PI 592901. Glycine max (L.) Merr.  
Cultivated. SY 930169. Collected 02/03/1989 in China.

The following were donated by T.E. Carter, USDA, ARS, North Carolina State University, 3127 Ligon Street Box 7631, Raleigh, North Carolina 27695-7631, United States; S. Miyazaki, Natl. Inst. of Agrobiological Resources, Kannondai, Tsukuba, Ibaraki, Japan. Received 08/04/1993.

PI 592902. Glycine max (L.) Merr.  
Cultivated. Inbred. Akiyoshi; SY 940002. = PI561383.

PI 592903. Glycine max (L.) Merr.  
Cultivated. Inbred. Geden Shirazu 1; SY 940005.

PI 592904. Glycine max (L.) Merr.  
Cultivated. Inbred. Hougyoku; SY 940006.

PI 592905. Glycine max (L.) Merr.  
Cultivated. Inbred. Kitami nagaha; SY 940008.

PI 592906. Glycine max (L.) Merr.  
Cultivated. Inbred. Shirotae; SY 940017.

Unknown source. Received 10/07/1993.

PI 592907. Glycine max (L.) Merr.  
Cultivated. Inbred. #19 YY; YY; SY 940021.

Unknown source. Received 10/07/1993.

PI 592907 A. Glycine max (L.) Merr.

Unknown source. Received 10/07/1993.

PI 592907 B. Glycine max (L.) Merr.

Unknown source. Received 10/07/1993.

PI 592907 C. Glycine max (L.) Merr.
Unknown source. Received 10/07/1993.

**PI 592907. Glycine max** (L.) Merr.

Unknown source. Received 10/07/1993.

**PI 592908. Glycine max** (L.) Merr.
Cultivated. Inbred. #20 BrBr; BrBr; SY 940022.

Unknown source. Received 10/07/1993.

**PI 592909. Glycine max** (L.) Merr.
Cultivated. Inbred. #21 BlBl; BlBl; SY 940023.

Unknown source. Received 10/07/1993.

**PI 592910. Glycine max** (L.) Merr.
Cultivated. Inbred. #22 YY; YY; SY 940024.

Unknown source. Received 10/07/1993.

**PI 592911. Glycine max** (L.) Merr.
Cultivated. Inbred. #23 YBl; YBl; SY 940025.

Unknown source. Received 10/07/1993.

**PI 592911 A. Glycine max** (L.) Merr.

Unknown source. Received 10/07/1993.

**PI 592911 B. Glycine max** (L.) Merr.

Unknown source. Received 10/07/1993.

**PI 592912. Glycine max** (L.) Merr.
Cultivated. Inbred. #24 YY; YY; SY 940026.

Unknown source. Received 10/07/1993.

**PI 592912 A. Glycine max** (L.) Merr.
Unknown source. Received 10/07/1993.

PI 592912. Glycine max (L.) Merr.

Unknown source. Received 10/07/1993.

PI 592913. Glycine max (L.) Merr.
Cultivated. Inbred. #25 YY; YY; SY 940027.

The following were donated by Gai Junyi, Germplasm Bank, Soybean Research Institute, Nanjing Agricultural University, Nanjing, Jiangsu, China. Received 03/1994.

PI 592914. Glycine max (L.) Merr.
Cultivated. Inbred. 1138-2; SY 9401001.

The following were donated by Ruzhen Chang, Chinese Academy of Agricultural Sciences, Institute of Crop Germplasm Resources, Beijing, China. Received 03/1994.

PI 592915. Glycine max (L.) Merr.
Cultivated. Inbred. Hei he 9 hao; ZDD 17672; SY 9403001.

PI 592916. Glycine max (L.) Merr.
Cultivated. Inbred. Feng shou 21; ZDD 17690; SY 9403002.

PI 592917. Glycine max (L.) Merr.
Cultivated. Inbred. Dong nong 42; SY 9403003.

PI 592918. Glycine max (L.) Merr.
Cultivated. Inbred. He feng 30; ZDD 17687; SY 9403004.

PI 592919. Glycine max (L.) Merr.
Cultivated. Inbred. He feng 31; ZDD 17688; SY 9403005.

PI 592920. Glycine max (L.) Merr.
Cultivated. Inbred. He feng 33; SY 9403006.

PI 592921. Glycine max (L.) Merr.
Cultivated. Inbred. Hei nong 37; SY 9403007.

PI 592922. Glycine max (L.) Merr.
Cultivated. Inbred. Hong feng 3 hao; ZDD 06833; SY 9403008.

PI 592923. Glycine max (L.) Merr.
Cultivated. Inbred. Ken nong 2 hao; ZDD 17679; SY 9403009.

PI 592924. Glycine max (L.) Merr.
Cultivated. Inbred. Ken nong 4 hao; SY 9403010.
PI 592925. Glycine max (L.) Merr.
   Cultivated. Inbred. Bai nong 1 hao; ZDD 07240; SY 9403011.

PI 592926. Glycine max (L.) Merr.
   Cultivated. Inbred. Tong nong 8 hao; ZDD 17876; SY 9403012.

PI 592927. Glycine max (L.) Merr.
   Cultivated. Inbred. Chen dou 4 hao; ZDD 20648; SY 9403013.

PI 592928. Glycine max (L.) Merr.
   Cultivated. Inbred. Gong dou 4 hao; ZDD 20670; SY 9403014.

PI 592929. Glycine max (L.) Merr.
   Cultivated. Inbred. Guan dou 1 hao; ZDD 11220; SY 9403015.

PI 592930. Glycine max (L.) Merr.
   Cultivated. Inbred. Xiang chun dou 12; ZDD 21930; SY 9403016.

PI 592931. Glycine max (L.) Merr.
   Cultivated. Inbred. Yin huang 4 hao; ZDD 19368; SY 9403017.

PI 592932. Glycine max (L.) Merr.
   Cultivated. Inbred. Zao shu 9 hao; ZDD 08031; SY 9403018.

PI 592933. Glycine max (L.) Merr.
   Cultivated. Inbred. Zao shu 14; ZDD 08029; SY 9403019.

PI 592934. Glycine max (L.) Merr.
   Cultivated. Inbred. Zhe chun 2 hao; SY 9403020.

PI 592935. Glycine max (L.) Merr.
   Cultivated. Inbred. Fu dou 1 hao; ZDD 21497; SY 9403021.

PI 592936. Glycine max (L.) Merr.
   Cultivated. Inbred. Ji dou 7 hao; ZDD 18632; SY 9403022.

PI 592937. Glycine max (L.) Merr.
   Cultivated. Inbred. Jin dou 14; ZDD 18846; SY 9403023.

PI 592938. Glycine max (L.) Merr.
   Cultivated. Inbred. Jin dou 15; ZDD 18847; SY 9403024.

PI 592939. Glycine max (L.) Merr.
   Cultivated. Inbred. Jin dou 16; ZDD 18848; SY 9403025.

PI 592940. Glycine max (L.) Merr.
   Cultivated. Inbred. Jin dou 17; ZDD 18849; SY 9403026.

PI 592941. Glycine max (L.) Merr.
   Cultivated. Inbred. Liao 86-5453; ZDD 18077; SY 9403027.

PI 592942. Glycine max (L.) Merr.
   Cultivated. Inbred. 7605; ZDD 09874; SY 9403028.
PI 592943. Glycine max (L.) Merr.  
Cultivated. Inbred. Lu dou 6 hao; ZDD 09889; SY 9403029.

PI 592944. Glycine max (L.) Merr.  
Cultivated. Inbred. Tie feng 22; ZDD 07652; SY 9403030.

PI 592945. Glycine max (L.) Merr.  
Cultivated. Inbred. Zhong huang 1 hao; ZDD 18399; SY 9403031.

PI 592946. Glycine max (L.) Merr.  
Cultivated. Inbred. Ji dou 4 hao; ZDD 18630; SY 9403032.

PI 592947. Glycine max (L.) Merr.  
Cultivated. Inbred. Jin yi 9 hao; ZDD 18878; SY 9403033.

PI 592948. Glycine max (L.) Merr.  
Cultivated. Inbred. Jin yi 10 hao; ZDD 18879; SY 9403034.

PI 592949. Glycine max (L.) Merr.  
Cultivated. Inbred. Yu dou 18; ZDD 10093; SY 9403035.

PI 592950. Glycine max (L.) Merr.  
Cultivated. Inbred. Yu dou 11; ZDD 19405; SY 9403036.

PI 592951. Glycine max (L.) Merr.  
Cultivated. Inbred. Zheng 133; ZDD 19407; SY 9403037.

PI 592952. Glycine max (L.) Merr.  
Cultivated. Inbred. Zheng 77249; ZDD 10095; SY 9403038.

PI 592953. Glycine max (L.) Merr.  
Cultivated. Inbred. Zhong dou 19; ZDD 11579; SY 9403039.

PI 592954. Glycine max (L.) Merr.  
Cultivated. Inbred. Nin zhen 1 hao; ZDD 11242; SY 9403040.

Unknown source. Received 06/30/1994.

PI 592955. Glycine max (L.) Merr.  
Cultivated. Inbred. SY 9410001.

Unknown source. Received 06/30/1994.

PI 592956. Glycine max (L.) Merr.  
Cultivated. SY 9411001.

Unknown source. Received 06/1995.

PI 592957. Glycine max (L.) Merr.  
Cultivated. Inbred. Chang nong 5; SY 9508001.

53
Unknown source. Received 06/1995.

**PI 592958. Glycine max** (L.) Merr.
Cultivated. Inbred. Chang nong 6; SY 9508002.

Unknown source. Received 06/1995.

**PI 592959. Glycine max** (L.) Merr.
Cultivated. Inbred. Chang nong 7; SY 9508003.

Unknown source. Received 06/1995.

**PI 592960. Glycine max** (L.) Merr.
Cultivated. Inbred. Dong nong 38; SY 9508004.

Unknown source. Received 06/1995.

**PI 592961. Glycine max** (L.) Merr.
Cultivated. Inbred. Dong nong 41; SY 9508005.

Unknown source. Received 06/1995.

**PI 592962. Glycine max** (L.) Merr.
Cultivated. Inbred. Hei nong 30; SY 9508006.

Unknown source. Received 06/01/1995.

**PI 592962 A. Glycine max** (L.) Merr.

Unknown source. Received 06/01/1995.

**PI 592962 B. Glycine max** (L.) Merr.

Unknown source. Received 06/1995.

**PI 592963. Glycine max** (L.) Merr.
Cultivated. Inbred. Hei nong 31; SY 9508007.

Unknown source. Received 06/1995.

**PI 592964. Glycine max** (L.) Merr.
Cultivated. Inbred. Hei nong 32; SY 9508008.

Unknown source. Received 06/1995.
Cultivated. Inbred. Hei nong 33; SY 9508009.

Unknown source. Received 06/1995.

Cultivated. Inbred. Hei nong 35; SY 9508010.

Unknown source. Received 06/1995.

Cultivated. Inbred. Hei nong 36; SY 9508011.

Unknown source. Received 06/1995.


Unknown source. Received 06/1995.

Cultivated. Inbred. Jilin 28; SY 9508013.

Unknown source. Received 06/1995.

PI 592970. *Glycine max* (L.) Merr.
Cultivated. Inbred. Jilin 29; SY 9508014.

Unknown source. Received 06/1995.


Unknown source. Received 06/1995.

Cultivated. Inbred. Kaiyu 9; SY 9508016.

Unknown source. Received 06/1995.

Cultivated. Inbred. Kaiyu 10; SY 9508017.

Unknown source. Received 06/1995.
PI 592974. Glycine max (L.) Merr.
  Cultivated. Inbred. Liao dou 10; SY 9508018.

Unknown source. Received 06/1995.

PI 592975. Glycine max (L.) Merr.
  Cultivated. Inbred. Sui nong 5; SY 9508019.

Unknown source. Received 06/1995.

PI 592976. Glycine max (L.) Merr.
  Cultivated. Inbred. Sui nong 8; SY 9508020.

Unknown source. Received 06/1995.

PI 592977. Glycine max (L.) Merr.
  Cultivated. Inbred. Sui nong 9; SY 9508021.

Unknown source. Received 06/1995.

PI 592978. Glycine max (L.) Merr.
  Cultivated. Inbred. Tie feng 24; SY 9508022.

Unknown source. Received 06/1995.

PI 592979. Glycine max (L.) Merr.
  Cultivated. Inbred. Tie feng 25; SY 9508023.

Unknown source. Received 06/1995.

PI 592980. Glycine max (L.) Merr.
  Cultivated. Inbred. Tie feng 26; SY 9508024.

Unknown source. Received 06/1995.

PI 592981. Glycine max (L.) Merr.
  Cultivated. Inbred. Tie feng 27; SY 9508025.

The following were developed by Edward J. Souza, University of Idaho,
Aberdeen Research & Extension Center, P.O. Box AA, Aberdeen, Idaho 83210,
United States; J.M. Windes, Idaho Agr. Exp. Sta., Univ. of Idaho, Plant,
Soils, and Entomological Sci., Aberdeen Research and Extension Ctr.,
Aberdeen, Idaho 83210, United States; D.W. Sunderman, USDA-ARS, Univ. of
Idaho Research & Extension Center, P.O. Box AA, Aberdeen, Idaho 83210, United
States; Katherine O'Brien, University of Idaho, Aberdeen Research & Extension
Center, P.O. Box AA, Aberdeen, Idaho 83210, United States. Received
04/02/1996.
PI 592982. Triticum aestivum L., nom. cons.
Cultivar. Pureline. "WHITEBIRD"; IDO392; NSGC 6125. CV-837. Pedigree - Owens/IDO159. Soft white spring wheat with dark green foliage and erect juvenile growth habit. Heads approx. 3 d earlier than Treasure and 2 d later than Centennial. Heads lax, awned with glumes long, medium wide, with square shoulders and acuminate beak. White chaffed mid-season similar to Penawawa at maturity. Seed elliptical with wide, shallow crease. Resistance to stripe rust. Moderate resistance to leaf rust (P. recondita) and stem rust (P. graminis). Lodging resistance comparable to Penawawa and significantly better than Treasure. Grain milling and baking qualities similar to Treasure.

PI 592983. Triticum aestivum L., nom. cons.

The following were developed by Suzi Halbert, University of Idaho, University Research & Education Center, P.O. Box AA, Aberdeen, Idaho 83210, United States; Edward J. Souza, University of Idaho, Aberdeen Research & Extension Center, P.O. Box AA, Aberdeen, Idaho 83210, United States; C.M. Smith, University of Idaho, Dept of Plant, Soil & Entomological Sci., Moscow, Idaho 83843, United States; Robert S. Zemetra, University of Idaho, Department of Plant, Soil and Entomology, Moscow, Idaho 83843, United States; J.M. Windes, Idaho Agr. Exp. Sta., Univ. of Idaho, Plant, Soils, and Entomological Sci., Aberdeen Research and Extension Ctr., Aberdeen, Idaho 83210, United States; S.S. Quisenberry, University of Nebraska, Dept. of Entomol., Lincoln, Nebraska 68583-0816, United States; D.J. Shotzko, University of Idaho, Dept. of Plant, Soils, Entomol. Sci., Moscow, Idaho 83844, United States; P.F. Lamb, University of Idaho, Dept. of Plant, Soils, Entomol. Sci., Moscow, Idaho 83844, United States. Received 04/02/1996.


PI 592985. Triticum aestivum L., nom. cons.

The following were developed by Edward J. Souza, University of Idaho, Aberdeen Research & Extension Center, P.O. Box AA, Aberdeen, Idaho 83210, United States. Received 04/02/1996.

PI 592986. Triticum aestivum L., nom. cons.

The following were developed by Suzi Halbert, University of Idaho, University Research & Education Center, P.O. Box AA, Aberdeen, Idaho 83210, United States; Edward J. Souza, University of Idaho, Aberdeen Research & Extension Center, P.O. Box AA, Aberdeen, Idaho 83210, United States; C.M. Smith, University of Idaho, Dept of Plant, Soil & Entomological Sci., Moscow, Idaho 83843, United States; Robert S. Zemetra, University of Idaho, Department of Plant, Soil and Entomology, Moscow, Idaho 83843, United States; J.M. Windes, Idaho Agr. Exp. Sta., Univ. of Idaho, Plant, Soils, and Entomological Sci., Aberdeen Research and Extension Ctr., Aberdeen, Idaho 83210, United States; S.S. Quisenberry, University of Nebraska, Dept. of Entomol., Lincoln, Nebraska 68583-0816, United States; D.J. Shotzko, University of Idaho, Dept. of Plant, Soils, Entomol. Sci., Moscow, Idaho 83844, United States; P.F. Lamb, University of Idaho, Dept. of Plant, Soils, Entomol. Sci., Moscow, Idaho 83844, United States. Received 04/02/1996.

PI 592987. Triticum aestivum L., nom. cons.

The following were developed by Richard Pickering, Crop & Food Research, Private Bag 4704, Christchurch, New Zealand. Received 04/02/1996.

PI 592988. Hordeum vulgare L. ssp. vulgare
Breeding. 53A8; NSGC 6131. Pedigree - Doubled haploid derived from a heterozygous recombinant, 30X2, selection from the cross Golden Promise/Golden Promise/Hordeum bulbosum Cb2920/4/Colch. Homozygous doubled haploid barley. Carries a pubescent leaf sheath, derived from H. bulbosum. Shows some characteristics of a winter type barley under long
day lengths.

The following were developed by Ferry-Morse Seed Company, United States. Received 1983.

**PI 592989. Beta vulgaris L.**
Cultivar. "RED BARON"; NSL 181925. PVP 8200060.

The following were developed by United AgriSeeds, Inc., Illinois, United States. Received 1987.

**PI 592990. Triticum aestivum L., nom. cons.**

The following were donated by Universidad De San Carlos De Guatemala, Cindad Universitaria, Guatemala. Received 03/27/1984.

**PI 592991. Ipomoea sp.**
Wild. Chino A; C 13739; Q 24531; CAMOTE BLANCO.

The following were donated by Guillermo Delgado, Universidad Nacional Pedro Ruiz Gallo, 8 De Octubra No. 637, Lambayeque, Peru. Received 09/05/1985.

**PI 592992. Ipomoea batatas (L.) Lam. var. batatas**
Uncertain. 95; C 16679; Q 25730.

The following were donated by F. Martin, USDA-ARS, Tropical Research Station, P.O. Box 70, Mayaguez, Puerto Rico. Received 04/27/1987.

**PI 592993. Ipomoea batatas (L.) Lam. var. batatas**
Cultivar. "PERLA"; BE-1227; SPV-93; Q 26771. White fleshed, low sweet attractive form. Potential as an early variety (10 weeks).

The following were donated by Dan Austin, Florida Atlantic University, Department of Biological Services, Boca Raton, Florida 33431, United States. Received 10/26/1987.

**PI 592994. Ipomoea batatas (L.) Lam. var. batatas**
Cultivar. "CUBA 1"; BE-1532; Q 26989. Collected in Cuba.

**PI 592995. Ipomoea batatas (L.) Lam. var. batatas**
Cultivar. "CUBA 3"; BE-1532; Q 26991. Collected in Cuba.

The following were donated by Australian Department of Agriculture, Institute of Plant Sciences, Burnley Gardens, Swan Street, Burnley, Australia. Received 02/09/1993.

**PI 592996. Ipomoea batatas (L.) Lam. var. batatas**
PI 592997. Lens culinaris Medikus
Breeding. Pureline. ILL 5582. GP-5. Pedigree - Single-plant selection (78526002) from land race NEL 8 collected in Amman, Jordan, by the Arid Land Agric. Dev. Program of the Ford Foundation in 1972. Standing ability and yield good. Cotyledons yellow. Seeds medium-large (average seed mass 4.3g 100 seeds⁻¹) and testa brown without pattern. Protein content 24.6% and cooking time 39 min. Averaged over 19 trials in Syria, flowered in 120 days, matured in 168 days and plants attained a height of 32cm. Resistant to Ascochyta blight (Ascochyta fabae). Susceptible to rust (Uromyces fabae) and vascular wilt (Fusarium oxysporum).

PI 592998. Lens culinaris Medikus
Breeding. Pureline. ILL 5588; W6 11175. GP-6. Pedigree - Single-plant selection (78526013) from land race NEL 16 collected at Salt, Jordan by the Arid Land Agric. Dev. Prog. of the Ford Foundation in 1972. Cotyledons red. Seeds small (average seed mass 2.8g 100 seeds⁻¹) and testa mid-brown without pattern. Protein content 28.8% and cooking time of 35 min. Averaged over 16 trials in Syria, flowered in 118 days, matured in 158 days and attained plant height of 31cm. Resistant to Ascochyta blight (Ascochyta fabae) and vascular wilt (Fusarium oxysporum). Susceptible to lentil rust (Uromyces fabae) and vascular wilt (Fusarium oxysporum).

PI 592999. Allium roylei Stearn
Cultivated. 217; G 30722. Collected 1959 in Former Soviet Union.

PI 593000. Triticum durum Desf.

PI 593002. Triticum durum Desf.

PI 593003. Triticum durum Desf.

PI 593004. Triticum durum Desf.

PI 593005. Triticum durum Desf.

PI 593006. Triticum durum Desf.

The following were developed by James L. Brewbaker, University of Hawaii, Dept. of Horticulture, 3190 Maile Way, Honolulu, Hawaii 96822, United States. Received 01/31/1996.

PI 593007. Zea mays L. ssp. mays

PI 593008. Zea mays L. ssp. mays

PI 593009. Zea mays L. ssp. mays

PI 593010. Zea mays L. ssp. mays

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PI 593011. Zea mays L. ssp. mays

PI 593012. Zea mays L. ssp. mays

PI 593013. Zea mays L. ssp. mays

PI 593014. Zea mays L. ssp. mays

PI 593015. Zea mays L. ssp. mays

PI 593016. Zea mays L. ssp. mays

PI 593017. Zea mays L. ssp. mays

PI 593018. Zea mays L. ssp. mays
Kernel weight 20.5gm. Resistant to maize mosaic virus.

**PI 593019. Zea mays L. ssp. mays**

The following were developed by Daryl T. Bowman, North Carolina State University, Department of Crop Science, Box 8604, Raleigh, North Carolina 27695-8604, United States; Steven Leath, USDA, ARS, North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695, United States; Charles F. Murphy, USDA, ARS, Room 240, Building 005, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States; R.A. Navarro, North Carolina State University, North Carolina Agric. Exp. Station, Raleigh, North Carolina, United States; Paul Murphy, North Carolina State University, 840 Method Road, Unit 3, Box 7629, Raleigh, North Carolina 27695, United States. Received 01/31/1996.

**PI 593020. Avena sativa L.**

The following were developed by Ricetec, Inc., Texas, United States. Received 02/01/1996.

**PI 593021. Oryza sativa L.**
Cultivar. "BASMATI 867". PVP 9600077.

The following were developed by Pure-Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon 97032, United States. Received 02/01/1996.

**PI 593022. Poa pratensis L.**
Cultivar. "RITA". PVP 9600078.

The following were developed by Iowa Agr. Exp. Sta., Iowa State University, Ames, Iowa 50011, United States. Received 02/01/1996.

**PI 593023. Citrullus lanatus (Thunb.) Matsum. & Nakai**
Cultivar. "CRIMSON BEAUTY". PVP 9600079.

The following were developed by Iowa State University, Department of Agronomy, Ames, Iowa 50011, United States. Received 02/01/1996.

**PI 593024. Citrullus lanatus (Thunb.) Matsum. & Nakai**
The following were developed by Busch Agricultural Resources, Inc., United States. Received 02/01/1996.

PI 593025. *Hordeum vulgare* L. ssp. vulgare
Cultivar. "2B89-4311". PVP 9600081.

PI 593026. *Hordeum vulgare* L. ssp. vulgare
Cultivar. "6B89-2027". PVP 9600082.

PI 593027. *Hordeum vulgare* L. ssp. vulgare
Cultivar. "6B92-7098". PVP 9600083.

PI 593028. *Hordeum vulgare* L. ssp. vulgare
Cultivar. "6B88-3213". PVP 9600084.

The following were developed by Petoseed Company, Inc., United States. Received 02/01/1996.

PI 593029. *Phaseolus vulgaris* L.
Cultivar. "UNIDOR". PVP 9600085.

PI 593030. *Phaseolus vulgaris* L.
Cultivar. "CANBERRA". PVP 9600086.

The following were developed by Agripro Seeds, Inc., United States. Received 02/01/1996.

Cultivar. "W88-039". PVP 9600087.

Cultivar. "WI88-052-13". PVP 9600088.

The following were developed by S & W Seed Company, United States. Received 02/01/1996.

PI 593033. *Medicago sativa* L.
Cultivar. "SW 9301". PVP 9600089.

The following were developed by Paragon Seed, Inc., United States. Received 02/01/1996.

PI 593034. *Lactuca sativa* L.
Cultivar. "JUPITER". PVP 9600090.

PI 593035. *Lactuca sativa* L.
Cultivar. "ORION". PVP 9600093.
The following were developed by Abbott & Cobb, Inc., United States. Received 02/01/1996.

PI 593036. Zea mays L. ssp. mays  
Cultivar. 781. PVP 9600094.

The following were developed by Holden's Foundation Seeds, Inc., United States. Received 02/01/1996.

PI 593037. Zea mays L. ssp. mays  
Cultivar. "LH178". PVP 9600095.

PI 593038. Zea mays L. ssp. mays  
Cultivar. "LH227". PVP 9600096.

PI 593039. Zea mays L. ssp. mays  
Cultivar. "LH233". PVP 9600097.

PI 593040. Zea mays L. ssp. mays  
Cultivar. "LH234". PVP 9600098.

PI 593041. Zea mays L. ssp. mays  
Cultivar. "LH235". PVP 9600099.

PI 593042. Zea mays L. ssp. mays  
Cultivar. "LH280". PVP 9600100.

The following were developed by Paragon Seed, Inc., United States. Received 02/01/1996.

PI 593043. Lactuca sativa L.  
Cultivar. "VENUS". PVP 9600101.

The following were developed by North Dakota State University, North Dakota Agricultural Exp. Sta., Fargo, North Dakota 58105, United States. Received 02/01/1996.

PI 593044. Triticum aestivum L., nom. cons.  
Cultivar. 2398. PVP 9600102. Hard red winter wheat.

The following were developed by Rijk Zwaan Zaadteelt en Zaadhandel B.V., Netherlands. Received 02/01/1996.

PI 593045. Brassica oleracea var. botrytis L.  
Cultivar. "DIPLOMAT". PVP 9600107.

The following were developed by Stoneville Pedigreed Seed Company, United States. Received 02/01/1996.
PI 593046. Gossypium hirsutum L.
Cultivar. "ST 495". PVP 9600108.

The following were developed by J. H. Hatchett, USDA, ARS, Kansas State University, Waters Hall - Dep. of Entomology, Manhattan, Kansas 66506-4004, United States; Scott Haley, South Dakota State University, Plant Science Department, Box 2140-C, Brookings, South Dakota 57007, United States; P. Stephen Baenziger, University of Nebraska, Department of Agronomy, 330 Keim Hall, Lincoln, Nebraska 68583-0915, United States; J.W. Schmidt, University of Nebraska, Nebraska Agricultural Experiment Station, Lincoln, Nebraska, United States; L.A. Nelson, Nebraska Agr. Exp. Sta., University of Nebraska-Lincoln, Lincoln, Nebraska 68583-0915, United States; David D. Baltensperger, University of Nebraska, Panhandle Res. & Ext. Center, 4502 Avenue I, Scottsbluff, Nebraska 69361-4939, United States; Don V. McVey, USDA, ARS, University of Minnesota, Cereal Rust Laboratory, St. Paul, Minnesota 55105, United States; B. Moreno-Sevilla, University of Nebraska, Dept. of Agronomy, Lincoln, Nebraska 68583, United States; C.J. Peterson, USDA, ARS, University of Nebraska, Dept. of Agronomy, Lincoln, Nebraska 68583, United States; D.R. Shelton, University of Nebraska, Dept. of Agronomy, Lincoln, Nebraska 68583, United States; John E. Watkins, University of Nebraska, Dept. of Plant Pathology, Lincoln, Nebraska 68583, United States; J. Krall, University of Wyoming Research and Extension Center, Route 1, Box 374, Torrington, Wyoming 88420, United States. Received 02/06/1996.

PI 593047. Triticum aestivum L., nom. cons.
Cultivar. Pureline. "PRONGHORN"; NE88584; NSGC 6122. CV-848. Pedigree - Centura/Dawn//Colt sib. Tall hard red winter wheat with medium maturity. Chaff white, awned. Moderate straw strength. Moderate resistance to stem rust (contains Sr6 and Sr17) and moderately susceptible to leaf rust. Susceptible to Biotype Great Plains of Hessian fly, soilborne mosaic virus, and wheat streak mosaic virus. Winterhardiness comparable to other cultivars adapted and commonly grown in Nebraska and South Dakota. Genetically high test weight. Recommended growing area is the dryland wheat production areas of the Panhandle of Nebraska, eastern Wyoming, and western South Dakota. Coleoptile long, similar to Scout 66 and can be planted deep in dry seedbeds. Tolerant to aluminum toxic soils. Milling and baking properties acceptable.

The following were donated by R. Stafford, USDA, ARS, P.O. Box 1658, Vernon, Texas 76384, United States. Received 1980.

PI 593048. Cyamopsis tetragonoloba (L.) Taubert
Breeding. TX73-2731; NSL 113032. GP-33.

PI 593049. Cyamopsis tetragonoloba (L.) Taubert
Breeding. TX71-3292; NSL 113033. GP-34.

The following were donated by USDA, SCS, New Jersey Agr. Exp. Station, New Jersey, United States. Received 1977.

PI 593050. Chamaecrista fasciculata (Michaux) E. Greene
Breeding. NSL 95795; NJ-39.
The following were donated by Mississippi SCS, Mississippi, United States. Received 1987.

Breeding. NSL 208731; 190-V-NPMM 1.

The following were donated by USDA-SCS, Florida Plant Materials Center, Florida, United States. Received 1963.

PI 593052. Desmodium incanum DC.  
Breeding. NSL 22663; F-314. Collected in Puerto Rico.

The following were donated by Maryland Agr. Exp. Sta., Maryland, United States. Received 1961.

PI 593053. Kummerowia stipulacea (Maxim.) Makino  
Cultivar. "ROWAN"; REG NO 1; NSL 6437. CV-1.

The following were donated by USDA, ARS, Texas Agric. Exp. Station, Texas, United States. Received 1976.

PI 593054. Cyamopsis tetragonoloba (L.) Taubert  
Breeding. NSL 91496; G-04.

The following were donated by B. F. Berrier, 1407 Grand, Canon City, Colorado 80212, United States. Received 1985.

PI 593055. Lablab purpureus (L.) Sweet  
Breeding. 604B; NSL 194063; Loblolly Pole/Hyacinth/Dobas.

The following were donated by Mississippi SCS, Mississippi, United States. Received 1987.

PI 593056. Chamaecrista nictitans (L.) Moench  
Breeding. NSL 208729; 190-V-NPMM 3.

The following were donated by USDA-SCS, Florida Plant Materials Center, Florida, United States. Received 1963.

PI 593057. Desmodium incanum DC.  
Breeding. NSL 22664; F-672.

The following were donated by USDA, ARS, Texas Agric. Exp. Station, Texas, United States. Received 1976.
PI 593058. *Cyamopsis tetragonoloba* (L.) Taubert
Breeding. NSL 91497; G-05.

The following were donated by R. Stafford, USDA, ARS, P.O. Box 1658, Vernon, Texas 76384, United States. Received 1983.

PI 593059. *Cyamopsis tetragonoloba* (L.) Taubert
Breeding. TX 78-3726; NSL 174413. GP-4.

The following were collected by D. Savithrunme, AICP, Plant Sciences, GKVK, Bangalore, India. Donated by Tony Hall, University of California - Riverside, Riverside, California, United States. Received 02/01/1995.

PI 593060. *Vigna unguiculata* (L.) Walp. *ssp. unguiculata*
Wild. UCR 497; CG 331. Collected 02/01/1988 in India.

PI 593061. *Vigna unguiculata* (L.) Walp. *ssp. unguiculata*
Wild. UCR 509; UPC 126. Collected 02/01/1988 in India.

The following were collected by Jeff Ehlers, University of California, Riverside, Department of Botany & Plant Sciences-072, Riverside, California 92521-0124, United States. Donated by Tony Hall, University of California - Riverside, Riverside, California, United States. Received 02/01/1995.

PI 593062. *Vigna unguiculata* (L.) Walp. *ssp. unguiculata*

PI 593063. *Vigna unguiculata* (L.) Walp. *ssp. unguiculata*
Wild. UCR 522; KVu 4-P3. Collected 04/01/1988 in Kenya.

PI 593064. *Vigna unguiculata* (L.) Walp. *ssp. unguiculata*

PI 593065. *Vigna unguiculata* (L.) Walp. *ssp. unguiculata*
Wild. UCR 570; KVu 301-P2. Collected 04/01/1988 in Kenya.

PI 593066. *Vigna unguiculata* (L.) Walp. *ssp. unguiculata*

PI 593067. *Vigna unguiculata* (L.) Walp. *ssp. unguiculata*
Wild. UCR 626; KVu 439 A. Collected 04/01/1988 in Kenya.

PI 593068. *Vigna unguiculata* (L.) Walp. *ssp. unguiculata*

The following were collected by C. J. DeMooy, Colorado State University, Colorado Agricultural Experiment Station, Department of Agronomy, Fort Collins, Colorado, United States. Donated by Tony Hall, University of California - Riverside, Riverside, California, United States. Received
02/01/1995.

PI 593069. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 736; BOTS 4D. Collected 09/01/1987 in Botswana.

PI 593070. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 737; BOTS 4E. Collected 09/01/1987 in Botswana.

PI 593071. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 743; BOTS 6C. Collected 09/01/1987 in Botswana.

PI 593072. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 749; BOTS 7K. Collected 09/01/1987 in Botswana. Two phenotypes.

PI 593073. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 750; BOTS 8A. Collected 09/01/1987 in Botswana.

PI 593074. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 754; BOTS 8H. Collected 09/01/1987 in Botswana.

PI 593075. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 755; BOTS 9A. Collected 09/01/1987 in Botswana.

PI 593076. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 761; BOTS 12C. Collected 09/01/1987 in Botswana.

PI 593077. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 764; BOTS 13B. Collected 09/01/1987 in Botswana.

PI 593078. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593079. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593080. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593081. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593082. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 773; BOTS 16A. Collected 09/01/1987 in Botswana.

PI 593083. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 783; BOTS 20F. Collected 09/01/1987 in Botswana.

PI 593084. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 786; BOTS 22. Collected 09/01/1987 in Botswana.

PI 593085. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593086. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 798; BOTS 29D. Collected 09/01/1987 in Botswana.

PI 593087. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 817; BOTS 45. Collected 09/01/1987 in Botswana.

PI 593088. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 819; BOTS 47A. Collected 09/01/1987 in Botswana.

PI 593089. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 828; BOTS 52B. Collected 09/01/1987 in Botswana.

PI 593090. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 829; BOTS 52C. Collected 09/01/1987 in Botswana.

PI 593091. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 833; BOTS 56. Collected 09/01/1987 in Botswana.

PI 593092. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 836; BOTS 60C. Collected 09/01/1987 in Botswana.

PI 593093. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 844; BOTS 67A. Collected 09/01/1987 in Botswana.

PI 593094. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 850; BOTS 69A. Collected 09/01/1987 in Botswana.

PI 593095. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 856; BOTS 72C. Collected 09/01/1987 in Botswana.

PI 593096. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 867; BOTS 83. Collected 09/01/1987 in Botswana.

PI 593097. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 868; BOTS 84. Collected 09/01/1987 in Botswana.

PI 593098. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593099. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 876; BOTS 92. Collected 09/01/1987 in Botswana.

PI 593100. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 877; BOTS 93. Collected 09/01/1987 in Botswana.

PI 593101. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 878; BOTS 94. Collected 09/01/1987 in Botswana.

PI 593102. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593103. Vigna unguiculata (L.) Walp. ssp. unguiculata
PI 593104. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 887; BOTS 100B. Collected 09/01/1987 in Botswana.

PI 593105. Vigna unguiculata (L.) Walp. ssp. unguiculata
Photosensitive. Purple specks.

PI 593106. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 894; BOTS 106A. Collected 09/01/1987 in Botswana.

PI 593107. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593108. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593109. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 904; BOTS 111C. Collected 09/01/1987 in Botswana.

PI 593110. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 907; BOTS 114A. Collected 09/01/1987 in Botswana.

PI 593111. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 908; BOTS 115. Collected 09/01/1987 in Botswana.

PI 593112. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 910; BOTS 116B. Collected 09/01/1987 in Botswana.

PI 593113. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593114. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 913; BOTS 118B. Collected 09/01/1987 in Botswana.

PI 593115. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 914; BOTS 119. Collected 09/01/1987 in Botswana.

PI 593116. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 921; BOTS 126. Collected 09/01/1987 in Botswana.

PI 593117. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593118. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593119. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 930; BOTS 134. Collected 09/01/1987 in Botswana.

PI 593120. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 931; BOTS 135. Collected 09/01/1987 in Botswana.

PI 593121. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593122. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593123. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593124. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593125. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593126. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593127. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593128. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 959; BOTS 163. Collected 09/01/1987 in Botswana.

PI 593129. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 961; BOTS 165. Collected 09/01/1987 in Botswana. Loose seed coat.

PI 593130. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 962; BOTS 166. Collected 09/01/1987 in Botswana.

PI 593131. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593132. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 973; BOTS 180. Collected 09/01/1987 in Botswana.

PI 593133. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 981; BOTS 189. Collected 09/01/1987 in Botswana.

PI 593134. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 994; BOTS 211. Collected 09/01/1987 in Botswana.

PI 593135. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1002; BOTS 221. Collected 09/01/1987 in Botswana.

PI 593136. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593137. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1010; BOTS 228. Collected 09/01/1987 in Botswana.

PI 593138. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593139. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1014; BOTS 232. Collected 09/01/1987 in Botswana. Loose seed coat.

PI 593140. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593141. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1036; BOTS 251A. Collected 09/01/1987 in Botswana.

PI 593142. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1040; BOTS 253B. Collected 09/01/1987 in Botswana.

PI 593143. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1053; BOTS 264B. Collected 09/01/1987 in Botswana.

PI 593144. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1054; BOTS 264C. Collected 09/01/1987 in Botswana.

PI 593145. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1059; BOTS 266F. Collected 09/01/1987 in Botswana.

PI 593146. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1061; BOTS 268B. Collected 09/01/1987 in Botswana.

PI 593147. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1062; BOTS 268H. Collected 09/01/1987 in Botswana.

PI 593148. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1065; BOTS 269C. Collected 09/01/1987 in Botswana.

PI 593149. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1069; BOTS 270. Collected 09/01/1987 in Botswana.

PI 593150. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1073; BOTS 272A. Collected 09/01/1987 in Botswana.

PI 593151. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593152. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1075; BOTS 275C. Collected 09/01/1987 in Botswana.

PI 593153. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1078; BOTS 278G. Collected 09/01/1987 in Botswana.

PI 593154. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1080; BOTS 279D. Collected 09/01/1987 in Botswana.

PI 593155. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1081; BOTS 279G. Collected 09/01/1987 in Botswana.

PI 593156. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1084; BOTS 280C. Collected 09/01/1987 in Botswana.

PI 593157. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1091; BOTS 285A. Collected 09/01/1987 in Botswana.

PI 593158. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1095; BOTS 286D. Collected 09/01/1987 in Botswana.

PI 593159. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593160. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1098; BOTS 289A. Collected 09/01/1987 in Botswana.

PI 593161. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1099; BOTS 289G. Collected 09/01/1987 in Botswana.

PI 593162. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1103; BOTS 291. Collected 09/01/1987 in Botswana.

PI 593163. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1107; BOTS 293D. Collected 09/01/1987 in Botswana.

PI 593164. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1108; BOTS 294E. Collected 09/01/1987 in Botswana.

PI 593165. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1109; BOTS 295A. Collected 09/01/1987 in Botswana.

PI 593166. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1111; BOTS 296D. Collected 09/01/1987 in Botswana.

PI 593167. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1112; BOTS 298A. Collected 09/01/1987 in Botswana.

PI 593168. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1114; BOTS 298C. Collected 09/01/1987 in Botswana.

PI 593169. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1116; BOTS 303. Collected 09/01/1987 in Botswana.

PI 593170. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593171. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1132; BOTS 327. Collected 09/01/1987 in Botswana.

PI 593172. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1140; BOTS 337. Collected 09/01/1987 in Botswana.

PI 593173. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1144; BOTS 343. Collected 09/01/1987 in Botswana.
PI 593174. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1145; BOTS 345. Collected 09/01/1987 in Botswana.

PI 593175. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593176. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593177. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593178. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1171; BOTS 376. Collected 09/01/1987 in Botswana.

PI 593179. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593180. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593181. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593182. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1179; BOTS 385. Collected 09/01/1987 in Botswana.

PI 593183. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593184. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593185. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1188; BOTS 393. Collected 09/01/1987 in Botswana.

PI 593186. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593187. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593188. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1191; BOTS 396. Collected 09/01/1987 in Botswana.

PI 593189. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1192; BOTS 397. Collected 09/01/1987 in Botswana.

PI 593190. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1194; BOTS 399. Collected 09/01/1987 in Botswana.

PI 593191. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1197; BOTS 402. Collected 09/01/1987 in Botswana.
PI 593192. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1198; BOTS 403. Collected 09/01/1987 in Botswana.

PI 593193. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1200; BOTS 405. Collected 09/01/1987 in Botswana.

PI 593194. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593195. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593196. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1205; BOTS 410. Collected 09/01/1987 in Botswana.

PI 593197. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1208; BOTS 413. Collected 09/01/1987 in Botswana.

PI 593198. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1209; BOTS 414. Collected 09/01/1987 in Botswana.

PI 593199. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593200. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1226; BOTS 430. Collected 09/01/1987 in Botswana.

PI 593201. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1227; BOTS 431. Collected 09/01/1987 in Botswana.

PI 593202. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1229; BOTS 433. Collected 09/01/1987 in Botswana.

PI 593203. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1230; BOTS 434. Collected 09/01/1987 in Botswana.

PI 593204. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593205. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1247; BOTS 450. Collected 09/01/1987 in Botswana.

PI 593206. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593207. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1251; BOTS 451D. Collected 09/01/1987 in Botswana.

PI 593208. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1253; BOTS 452. Collected 09/01/1987 in Botswana.

PI 593209. Vigna unguiculata (L.) Walp. ssp. unguiculata
PI 593210. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593211. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1279; BOTS 480. Collected 09/01/1987 in Botswana.

PI 593212. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1286; BOTS 486. Collected 09/01/1987 in Botswana.

PI 593213. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1294; BOTS 498. Collected 09/01/1987 in Botswana.

PI 593214. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1298; BOTS 503B. Collected 09/01/1987 in Botswana.

PI 593215. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1307; BOTS 506B. Collected 09/01/1987 in Botswana.

PI 593216. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1315; BOTS 514A. Collected 09/01/1987 in Botswana.

PI 593217. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593218. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1325; BOTS 519. Collected 09/01/1987 in Botswana.

PI 593219. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1328; BOTS 522. Collected 09/01/1987 in Botswana. Two phenotypes "A".

PI 593220. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593221. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593222. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 1333; BOTS 527. Collected 09/01/1987 in Botswana.

The following were collected by Institut Senegalais de Rech. Agricole, BP 53, Bambey, Senegal. Donated by Tony Hall, University of California - Riverside, Riverside, California, United States. Received 02/01/1995.

PI 593223. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593224. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 3352; 60-7. Collected 10/20/1991 in Senegal. CNT.
The following were collected by B.B. Singh, International Institute of Tropical Agriculture, Grain Legume Improvement Program, Ibadan, Nigeria. Donated by Tony Hall, University of California - Riverside, Riverside, California, United States. Received 02/01/1995.

PI 593225. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593226. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 4546; IT89KD-252. Collected 06/01/1992 in Nigeria.

PI 593227. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 4561; TVu 298; GROIT; FD 64191. Collected 03/02/1992 in Nigeria.

The following were collected by Mark Sterner, Inland Empire Foods, Riverside, California, United States. Donated by Tony Hall, University of California - Riverside, Riverside, California, United States. Received 02/01/1995.

PI 593228. Vigna unguiculata (L.) Walp. ssp. unguiculata

PI 593229. Vigna unguiculata (L.) Walp. ssp. unguiculata

The following were collected by C. J. DeMooy, Colorado State University, Colorado Agricultural Experiment Station, Department of Agronomy, Fort Collins, Colorado, United States. Donated by Tony Hall, University of California - Riverside, Riverside, California, United States. Received 02/01/1995.

PI 593230. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 4673; BOTS 178. Collected 05/01/1986 in Botswana.

PI 593231. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 4675; BOTS 274. Collected 05/01/1986 in Botswana.

PI 593232. Vigna unguiculata (L.) Walp. ssp. unguiculata
Wild. UCR 4676; BOTS 528. Collected 05/01/1986 in Botswana.

The following were donated by Agricultural Research Service -- USDA, Beltsville Agricultural Research Center, Beltsville, Maryland 20705, United States. Received 1961.

PI 593233. Melilotus albus Medikus
The following were developed by Agricultural Research Service -- USDA, Beltsville Agricultural Research Center, Beltsville, Maryland 20705, United States. Received 1961.

PI 593234. *Melilotus albus* Medikus
Cultivar. "SPANISH"; "MADRID WHITE"; NSL 5479. CV-1. Pedigree - Derived from PI 27465 which was donated by the Madrid Botanical Garden in Madrid, Spain in 1910. Released 1926. White flowered biennial, vigorous in early seedling stage. Maturity early enough to escape the drought hazard common in the eastern part of the Great Plains states.

The following were developed by Texas Agricultural Experiment Station, College Station, Texas, United States. Donated by Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1963.

PI 593235. *Melilotus albus* Medikus
Cultivar. "ISRAEL"; NSL 5482. Pedigree - From PI 200355 which was introduced from Israel in 1952. Released 1957. Annual with long growing season. In south Texas, can be planted in October and will continue growth until early August. Large stems, large leaves, and grows taller than other varieties.

The following were developed by Karl F. Manke, Texas Agricultural Experiment Station, Lower Rio Grande Valley Station, Weslaco, Texas, United States. Donated by Agricultural Research Service -- USDA, Beltsville Agricultural Research Center, Beltsville, Maryland 20705, United States. Received 1975.

PI 593236. *Melilotus albus* Medikus
Cultivar. "EMERALD"; NSL 30287. Pedigree - Selected from the progeny of a hybrid between Hubam clover and a many stemmed, crown branching, leafy, green-seeded biennial, white blossomed sweetclover selected at Brookings South Dakota in 1935. The original cross and first selections were made at Brookings, South Dakota in 1935. Released 1944. Annual, many stemmed, fine stemmed, crown branching, leafy, white blossomed, and green seeded. Shorter and not as coarse as other annual sweetclovers. Greater recovery after close grazing than other annual sweetclovers. Fineness of stems and leafiness due to a single recessive genetic factor.

The following were developed by M.H. Yu, USDA, ARS, U.S. Agricultural Research Station, 1636 East Alisal St., Salinas, California 93905, United States. Received 02/13/1996.

PI 593237. *Beta vulgaris var. maritima* (L.) Mog.
Breeding. Population. Mi-1. GP-170. Pedigree - Pooled seed increased from open pollination of PI 546426 plants with fewer than 10 galls and protuberances, evaluated 40 days after Meloidogyne incognita race 1 J2 inoculations. Mostly annual, multigerm, partially self-compatible, varied in bolting, plant type, and pigmentation. After seedlings were inoculated with 1,000 second-stage M. incognita Race 1 juveniles per
plant, about 55 percent of the plants were rated resistant. Plants with zero or fewer than 10 root gall and protuberance counts, and with none to low nematode reproductions observed, were classified as resistant. The nematode resistance is heritable. Valuable for sugarbeet root-knot nematode resistance breeding research.

The following were developed by Dan Phillips, University of Georgia, Department of Plant Pathology, Georgia Experiment Station, Experiment, Georgia 30223, United States; Richard S. Hussey, University of Georgia, College of Agric. and Envrn. Sciences, Department of Plant Pathology, Athens, Georgia 30602-7274, United States; H. Roger Boerma, University of Georgia, Department of Crop & Soil Science, 3111 Plant Sciences Building, Athens, Georgia 30602-7272, United States; E. Dale Wood, University of Georgia, Dept. of Crop & Soil Sciences, Athens, Georgia 30602, United States; S.L. Finnerty, University of Georgia, Dept. of Plant Pathology, Athens, Georgia 30602, United States; Bruce M. Luzzi, University of Guelph, Dept. of Crop Science, Guelph, Ontario N1G 2W1, Canada; John P. Tamulonis, University of Georgia, Dept. of Crop and Soil Sciences, Athens, Georgia, United States. Received 01/25/1996.

PI 593238. Glycine max (L.) Merr.
Breeding. Pureline. G93-9106. GP-180. Pedigree - G83-559 x (G80-1515(2) x PI 200538), F4. High resistance to peanut root-knot nematode (Meloidogyne arenaria). Similar resistance to Ma as PI 200538 but higher seed yield. Maturity group VII. Matures 8 d later than Bryan and 2 d later than PI 200538. 2cm taller and more susceptible to lodging than Bryan. Flowers white, gray pubescence, tan pod walls, and determinate growth habit. Seed have yellow coat and buff hilum. Also resistant to southern (M. incognita) and javanese (M. javanica) root-knot nematodes, race 3 and race 14 of SCN, and bacterial pustule (Xanthomonas campestris pv. glycines).


PI 593239. Arachis hypogaea ssp. fastigiata Waldron
The following were developed by J. L. Sherwood, Oklahoma State University, Department of Plant Pathology, Stillwater, Oklahoma 74078, United States; Robert Hunger, Oklahoma State University, Dept. of Plant Pathology, 110 NRC, Stillwater, Oklahoma 74078-9947, United States; Brett F. Carver, Oklahoma State University, Department of Agronomy, 368 Agriculture Hall North, Stillwater, Oklahoma 74078-0507, United States; E.L. Smith, Oklahoma Agr. Exp. Sta., Oklahoma State University, Stillwater, Oklahoma 74078, United States; B.G. Jordan, RiceTec Inc., Alvis, Texas 77512, United States; R.G. Ward, Stoneville Pedigreed Seed Company, Maricopa, Arizona 85239, United States. Received 02/15/1996.

PI 593240. Triticum aestivum L., nom. cons.
Tolerance to aluminum-toxic, acidic soils in a genetic background with outstanding grain yield potential. In solution culture, seedlings show a similar hematoxylin stain pattern as Atlas 66, and in the field under low pH (<4.5), tolerance ratings are excellent. Adult-plant resistance to leaf rust (Puccinia recondita) and segregates for resistance to wheat soil-borne mosaic virus. Plants semi-dwarf and winterhardy in the southern Great Plains. Kernel hardness lower than acceptable limits for hard red winter wheat.

The following were developed by Farman Jodari, Louisiana State University, Rice Research Station, P.O. Box 1429, Crowley, Louisiana 70527, United States; Don Groth, Rice Research Station, Louisiana State University, Agric. Exp. Station, P.O. Box 1429, Crowley, Louisiana 70429-1429, United States; Steve D. Linscombe, Rice Research Station, Louisiana Agricultural Experimental Sta., P.O. Box 1429, Crowley, Louisiana 70527, United States; P.K. Bollich, Rice Research Station, P.O. Box 1429, Crowley, Louisiana 70527-1429, United States; L.M. White, Rice Research Station, P.O. Box 1429, Crowley, Louisiana 70527-1429, United States; R.T. Dunand, Rice Research Station, P.O. Box 1429, Crowley, Louisiana 70527-1429, United States; Karen Bett, USDA, ARS, Southern Regional Research Center, P.O. Box 19687, New Orleans, Louisiana 70179, United States. Received 02/15/1996.

PI 593241. Oryza sativa L.
Long-grain, aromatic, early maturing and semidwarf with high first crop, second crop, and head rice yield potentials. Average days from seeding to 50% heading 89, and average plant height 98cm. Grain yield average 6858 kg ha-1. Average head rice yield 623 g kg-1. Concentrations of primary rice aroma compound (2-Acetyl-1-pyrroline) average 988 ng g-1 (1095 ng g-1 for Della). Susceptible to sheath blight (Rhizoctonia solani). Moderately susceptible to blast (Pyricularia grisea). Leaves, lemma, and palea glabrous. Spikelet straw colored and awnless.

The following were developed by Larry R. Teuber, University of California, Department of Agronomy & Range Science, Davis, California 95616-8515, United States; W.L. Green, University of California, Agronomy and Range Science, Davis, California 95616-8515, United States. Received 01/29/1996.

PI 593242. Medicago sativa L. ssp. sativa
Breeding. Population. UCRD-C(L)2; UC-1160. GP-306. Pedigree - UCRD-C(L)2
Germplasm pool selected from Vernal for decreased receptacle diameter through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593243. *Medicago sativa* L. ssp. *sativa*
Breeding. Population. UCWSS/P-B(L)2; UC-1169. GP-321. Pedigree - UCWSS/P-B(L)2. Germplasm pool selected from Team for decreased seed yield at through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593244. *Medicago sativa* L. ssp. *sativa*
Breeding. Population. UCWSS/P-C(L)2; UC-1176. GP-323. Pedigree - UCWSS/P-C(L)2. Germplasm pool selected from Vernal for decreased seed yield through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593245. *Medicago sativa* L. ssp. *sativa*
Breeding. Population. UCDS/P-A(L)2; UC-1142. GP-325. Pedigree - UCDS/P-A(L)2. Germplasm pool selected from CUF101 for decreased seeds per pod through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593246. *Medicago sativa* L. ssp. *sativa*
Breeding. Population. UCDS/P-B(L)2; UC-1166. GP-327. Pedigree - UCDS/P-B(L)2. Germplasm pool selected from Team for decreased number of seeds per pod through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593247. *Medicago sativa* L. ssp. *sativa*
Breeding. Population. UCDS/P-C(L)2; UC-1172. GP-329. Pedigree - UCDS/P-C(L)2. Germplasm pool selected from Vernal for decreased number of seeds per pod through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593248. *Medicago sativa* L. ssp. *sativa*
Breeding. Population. UCDS/P-C(H)2; UC-1173. GP-330. Pedigree - UCDS/P-C(H)2. Germplasm pool selected from Vernal for increased number of seeds per pod through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593249. *Medicago sativa* L. ssp. *sativa*

PI 593250. *Medicago sativa* L. ssp. *sativa*
Breeding. Population. UCDS-A(H)2; UC-1147. GP-308. Pedigree - UCDS-A(HL)2. Germplasm pool selected from CUF101 for increased seed yield through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593251. *Medicago sativa* L. ssp. *sativa*
Breeding. Population. UCWSS-A(H)2; UC-1149. GP-309. Pedigree - UCWSS-A(H)2. Germplasm pool selected from CUF101 for increased seed
yield through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593252. Medicago sativa L. ssp. sativa
Breeding. Population. UCWSS-A(L)2; UC-1163. Pedigree - UCWSS-A(L)2. Germplasm pool selected from CUF101 for decreased seed yield through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593253. Medicago sativa L. ssp. sativa
Breeding. Population. UCDS-B(L)2; UC-1165. GP-313. Pedigree - UCDS-B(L)2. Germplasm pool selected from Team for decreased seed yield at through 3 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593254. Medicago sativa L. ssp. sativa
Breeding. Population. UCDS-C(L)2; UC-1171. GP-316. Pedigree - UCDS-C(L)2. Germplasm pool selected from Vernal for decreased seed yield through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

PI 593255. Medicago sativa L. ssp. sativa
Breeding. Population. UCWSS-C(L)2; UC-1174. GP-317. Pedigree - UCWSS-C(L)2. Germplasm pool selected from Vernal for decreased seed yield through 2 cycles of phenotypic recurrent selection. Approx. 45 plants intercrossed in each cycle.

The following were developed by Dennis Thomas, University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue, Urbana, Illinois 61801, United States; CD. Nickell, University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue, Urbana, Illinois 61801, United States; T.R. Cary, University of Illinois, Illinois Agr. Exp. Sta., Dept. of Agronomy, Urbana, Illinois 61801, United States; Paul Stephens, Pioneer Hi-Bred International, 2999 East 350th Road, Suite 102, La Salle, Illinois 61301, United States. Received 02/15/1996.

PI 593256. Glycine max (L.) Merr.
Cultivar. "Cisne"; LN90-4129. CV-348; PVP 9600136. Pedigree - F4 selection from Burlison x Asgrow A3733. Indeterminate Group IV maturity (relative maturity 4.4) similar to Spencer. Compared to Spencer averaged 2% higher seed yield, 25 mg/seed-1 higher seed weight, 8 g/kg-1 higher seed protein concentration, and 12 cm shorter plant height. Similar to Spencer in seed quality and seed oil concentration. Has Rps 1-b and Rps 3 genes for resistance to phytophthora rot. Susceptible to brown stem rot, soybean cyst nematode (races 3 & 4) and sudden death syndrome. Flowers purple, tawny pubescence, tan pods at maturity, and dull yellow seeds with black hila.

The following were developed by Dennis Thomas, University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue, Urbana, Illinois 61801, United States; Jay Tharp, University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue, Urbana, Illinois 61801, United States; C.D. Nickell, University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue,
PI 593257. Glycine max (L.) Merr.
Breeding. LN90-4524. CV-349. Pedigree - F4 selection from LN86-4668 x Asgrow A3733. Group III maturity (relative maturity 3.7) averaging 1 day earlier than Linford and 4 days later than Resnik. Compared with Linford at noninfested SCN locations averaged 6% higher seed yield, and 10 cm shorter plant height. At SCN infested locations, seed yield was 15% higher than Linford and 17% higher than Resnik. When evaluated against SCN in the greenhouse, is susceptible to races 1 & 2, moderately resistant to races 3, 4, & 5, and resistant to race 14. Flowers purple, tawny pubescence, brown pods at maturity, and dull yellow seeds with black hila.

The following were developed by Dennis Thomas, University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue, Urbana, Illinois 61801, United States; C.D. Nickell, University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue, Urbana, Illinois 61801, United States; T.R. Cary, University of Illinois, Illinois Agr. Exp. Sta., Dept. of Agronomy, Urbana, Illinois 61801, United States; D. Heavner, University of Illinois, Dept. of Crop Sciences, 1102 S. Goodwin, Urbana, Illinois 61801, United States. Received 02/15/1996.

PI 593258. Glycine max (L.) Merr.
Cultivar. "Macon"; LN89-295. CV-350; PVP 9600135. Pedigree - F4 selection from Sherman x Resnik. Indeterminate Group III maturity (relative maturity 3.9) 5 days later than Resnik. Compared with Resnik averaged 10% higher seed yield, 25 mg seed⁻¹ larger seeds, 6 g/kg⁻¹ lower seed protein, 4 g/kg⁻¹ lower seed oil, and 5 cm plant height. Susceptible to phytophthora rot (races 1, 4 and 7), brown stem rot, and moderately resistant to sudden death syndrome. Flowers white, tawny pubescence, brown pods at maturity, and dull yellow seeds with black hila.

The following were developed by Dennis Thomas, University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue, Urbana, Illinois 61801, United States; C.D. Nickell, University of Illinois, Department of Agronomy, 1102 S. Goodwin Avenue, Urbana, Illinois 61801, United States; T.R. Cary, University of Illinois, Illinois Agr. Exp. Sta., Dept. of Agronomy, Urbana, Illinois 61801, United States; D.J. Johnson, University of Illinois, Dept. of Crop Sciences, 1102 S. Goodwin, Urbana, Illinois 61801, United States; D. Gay, University of Illinois, Dept. of Crop Sciences, 1102 S. Goodwin, Urbana, Illinois 61801, United States. Received 02/15/1996.

PI 593259. Glycine max (L.) Merr.
Cultivar. "Iroquois"; LN88-10534. CV-351; PVP 9600137. Pedigree - F4 selection from LN81-1029 x Asgrow A2943. Indeterminate Group III maturity (relative maturity 3.0) similar to Resnik. Compared with Resnik averaged 3% higher seed yield, and 7.5 cm taller plant height. Similar to Resnik in lodging, seed weight, seed quality score, and seed protein

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and oil concentration. Resistant to race 1 and susceptible to races 4 & 7 of phytophthora rot. Susceptible to brown stem rot, soybean cyst nematode (races 3 & 4), and sudden death syndrome. Flowers purple, gray pubescence, brown pods, seeds yellow with intermediate seed coat luster and imperfect black hila.

The following were collected by Ken H. Quesenberry, University of Florida, Department of Agronomy, 304 Newell Hall, Gainesville, Florida 32611-0500, United States; Gary A. Pederson, USDA, ARS, Crop Sci. Research Lab, Forage Research Unit, Mississippi State, Mississippi 39762-5367, United States; Yana K. Guteva, Institute of Introduction and Plant Genetic Resources, Sadovo, Plovdiv 4122, Bulgaria; Siyka Angelova, Institute of Introduction and Plant Genetic Resources, 4122 Sadovo, Plovdiv, Bulgaria; Datcho P. Shamov, Institute of Introduction and Plant Genetic Resources, 4122 Sadovo, Plovdiv, Bulgaria. Donated by Gary A. Pederson, USDA, ARS, Crop Sci. Research Lab, Forage Research Unit, Mississippi State, Mississippi 39762-5367, United States. Received 08/31/1994.

PI 593260. Trifolium aureum Pollich

PI 593261. Trifolium aureum Pollich
Wild. 93-40. Collected 08/04/1993 in Bulgaria. Latitude 42 deg. 2' 19'' N. Longitude 23 deg. 54' 8'' E. Elevation 1140 m. 8-10 km west of Velingrad on road to Jundola. Sandy clay loam; 50% sand, 15% silt, 35% clay. Grasses and Forbes; open mountain meadows. Bright yellow flower.

PI 593262. Trifolium dubium Sibth.
Wild. 93-78. Collected 08/06/1993 in Bulgaria. Latitude 41 deg. 37' 14'' N. Longitude 23 deg. 20' 11'' E. Elevation 645 m. 47% sand, 50% silt, 3% clay. Meadow grasses; edge of sand field along creek. Narrow valley with stream. Yellow flower. Very fine stems, few florets per head, petiolate leaves.

PI 593263. Trifolium echinatum var. carmeli (Boiss.) Gibelli & Belli

PI 593264. Trifolium subterraneum L. ssp. subterraneum

PI 593265. Trifolium suffocatum L.
The following were collected by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States; Ken H. Quesenberry, University of Florida, Department of Agronomy, 304 Newell Hall, Gainesville, Florida 32611-0500, United States. Received 10/17/1995.

PI 593266. *Trifolium hirtum* All.
Cultivated. C-1. Collected 06/02/1994 in California, United States. Latitude 38 deg. 33' 21'' N. Longitude 121 deg. 58' 58'' W. Yolo County. About 9 miles west of Davis on Highway 31, then 1/4 mile on gravel road next to reservoir. Open exposure on a level slope. Disturbed soil.

PI 593267. *Trifolium dubium* Sibth.
Wild. C-2; Hop Clover. Collected 06/03/1994 in California, United States. Latitude 39 deg. 14' 5'' N. Longitude 121 deg. 17' 7'' W. Elevation 130 m. About 15 miles East of Marysville, on Rte. 20, then 6 miles NE on Peoria Rd. to Sierra foothills Experiment Station. Mountain foothills along bank of creek leading to Yuba River, 60% sand, 27% sh, 13% clay, pH 6.9. Soil thin rocky. Slope 25-30 degrees, southern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced *T. hirtum*. Upright.

PI 593268. *Trifolium microcephalum* Pursh
Wild. C-3. Collected 06/03/1994 in California, United States. Latitude 39 deg. 14' 5'' N. Longitude 121 deg. 17' 7'' E. Elevation 130 m. About 15 miles East of Marysville, on Rte. 20, then 6 miles NE on Peoria Rd. to Sierra Foothills Experiment Station. Mountain foothills along bank of creek leading to Yuba River, 60% sand, 27% sh, 13% clay. Soil thin rocky. Slope 25-30 degrees, southern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced *T. hirtum*. Upright.

PI 593269. *Trifolium willdenovii* Sprengel
Wild. C-3A. Collected 06/03/1994 in California, United States. Latitude 39 deg. 14' 5'' N. Longitude 121 deg. 17' 7'' W. Elevation 130 m. About 15 miles East of Marysville, on Rte. 20, then 6 miles NE on Peoria Rd. to Sierra Foothills Experiment Station. Mountain foothills along bank of creek leading to Yuba River, 60% sand, 27% sh, 13% clay, pH 6.9. Soil thin rocky. Slope 25-30 degrees, southern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced *T. hirtum*. Upright.

PI 593270. *Trifolium ciliolatum* Benth.
Wild. C-3B. Collected 06/03/1994 in California, United States. Latitude 39 deg. 14' 5'' N. Longitude 121 deg. 17' 7'' E. Elevation 130 m. About 15 miles East of Marysville, on Rte. 20, then 6 miles NE on Peoria Rd. to Sierra Foothills Experiment Station. Mountain foothills along bank of creek leading to Yuba River, 60% sand, 27% sh, 13% clay. Soil thin rocky. Slope 25-30 degrees, southern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced *T. hirtum*. Upright.

PI 593271. *Trifolium ciliolatum* Benth.
Wild. C-4. Collected 06/03/1994 in California, United States. Latitude 39 deg. 14' 5'' N. Longitude 121 deg. 17' 7'' W. Elevation 130 m. About 15 miles East of Marysville, on Rte. 20, then 6 miles on Peoria Rd. to
Sierra Foothills Experiment Station. Mountain foothills along bank of creek leading to Yuba River, 60% sand, 27% sh, 13% clay. Soil thin rocky. Slope 25-30 degrees, southern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced Trifolium hirtum. Upright.

PI 593272. Trifolium willdenovii Sprengel
Wild. C-5; Tomcat Clover. Collected 06/03/1994 in California, United States. Latitude 39 deg. 14' 5" N. Longitude 121 deg. 17' 7" W. Elevation 130 m. About 15 miles East of Marysville, on Rte. 20, then 6 miles NE on Peoria Rd. to Sierra Foothills Experiment Station. Mountain foothills along bank of creek leading to Yuba River, 60% sand, 27% sh, 13% clay. Soil thin rocky. Slope 25-30 degrees, southern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced Trifolium hirtum. Upright.

PI 593273. Trifolium willdenovii Sprengel
Wild. C-6; Tomcat clover. Collected 06/03/1994 in California, United States. Latitude 39 deg. 17' 15' N. Longitude 121 deg. 17' 21' W. Elevation 500 m. About 15 miles East of Marysville, on Rte. 20, then 6 miles NE on Peoria Rd. to Sierra Foothills Experiment Station. Along Road 6. Mountain foothills along bank of creek leading to Yuba River, 47% sand, 33% sh, 20% clay, pH 6.0. Soil thin rocky. Slope 20 degrees, eastern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced Trifolium hirtum. Upright.

PI 593274. Trifolium ciliolatum Benth.
Wild. C-7. Collected 06/03/1994 in California, United States. Latitude 39 deg. 17' 15' N. Longitude 121 deg. 17' 21' W. Elevation 500 m. About 15 miles East of Marysville, on Rte. 20, then 6 miles NE on Peoria Rd. to Sierra Foothills Experiment Station. Along Road 6. Mountain foothills along bank of creek leading to Yuba River, 47% sand, 33% sh, 20% clay, pH 6.0. Soil thin rocky. Slope 20 degrees, eastern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced Trifolium hirtum. Upright.

PI 593275. Trifolium albopurpureum Torrey & A. Gray

PI 593276. Trifolium microcephalum Pursh
Wild. C-9. Collected 06/03/1994 in California, United States. Latitude 39 deg. 17' 15' N. Longitude 121 deg. 17' 21' W. Elevation 500 m. About 15 miles East of Marysville, on Rte. 20, then 6 miles NE on Peoria Rd. to Sierra Foothills Experiment Station. Along Road 6. Mountain foothills along bank of creek leading to Yuba River, 47% sand, 33% sh, 20% clay, pH 6.0. Soil thin rocky. Slope 25-30 degrees, southern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced Trifolium hirtum.
PI 593277. Trifolium bifidum var. decipiens E. Greene
Wild. C-10. Collected 06/03/1994 in California, United States. Latitude 39 deg. 14' 5" N. Longitude 121 deg. 17' 7" W. About 15 miles East of Marysville, on Rte. 20, then 6 miles NE on Peoria Rd. to Sierra Foothills Experiment Station. Along Road 6. Mountain foothills along bank of creek leading to Yuba River, 47% sand, 33% sh, 20% clay, pH 6.0. Soil thin rocky. Slope 25-30 degrees, southern aspect. Scrub oak, grasslands with wild oat, pine, bromus, introduced Trifolium hirtum. Upright, low growing. Seeds black. May be a mixture of tall and short types, perhaps mixed with some Trifolium dubium which it resembles except for the black seeds.

PI 593278. Trifolium macraei Hook. & Arn.

PI 593279. Trifolium barbigerum Torrey

PI 593280. Trifolium gracilentum Torrey & A. Gray

PI 593281. Trifolium fucatum Lindley

PI 593282. Trifolium variegatum Nutt.

PI 593283. Trifolium microcephalum Pursh
Wild. C-17. Collected 06/04/1994 in California, United States. Latitude 38 deg. 18' 3'' N. Longitude 122 deg. 46' 37'' W. Elevation 90 m. Two Rock, California; Walker Rd., 3 miles N of Two Rock; Button Ranch. Grassy pasture; sandy loam. 67% sand, 33% sh, 0 clay. pH 5.7. Upright but short, low growing. Flowers white.

PI 593284. Trifolium variegatum Nutt.
Wild. C-18. Collected 06/04/1994 in California, United States. Latitude 38 deg. 18' 3'' N. Longitude 122 deg. 46' 37'' W. Elevation 90 m. Two Rock, California; Walker Rd., 3 miles N of Two Rock; Button Ranch.
Grassy pasture; sandy loam, 67% sand, 33% sh, 0 clay. pH 5.7. Upright but low growing. Flowers lavender.

PI 593285. *Trifolium bifidum* var. *decipiens* E. Greene
Wild. C-19. Collected 06/04/1994 in California, United States. Latitude 38 deg. 18' 3'' N. Longitude 122 deg. 46' 37'' W. Elevation 90 m. Two Rock, California; Walker Rd., 3 miles N of Two Rock; Button Ranch. Grassy pasture; sandy loam, 67% sand, 33% sh, 0 clay. pH 5.7. Low growing. Flowers pink to purple. This accession is distinct from var. bifidum which has leaflets deeply bifid (forked), but none of this found.

PI 593286. *Trifolium ciliolatum* Benth.
Wild. C-20. Collected 06/04/1994 in California, United States. Latitude 38 deg. 18' 3'' N. Longitude 122 deg. 46' 37'' W. Elevation 90 m. Two Rock, California; Walker Rd., 3 miles N of Two Rock; Button Ranch. Grassy pasture; sandy loam, 67% sand, 33% sh, 0 clay. pH 5.7. Upright. Flowers white to pink to purple.

PI 593287. *Trifolium gracilentum* Torrey & A. Gray
Wild. C-20A. Collected 06/04/1994 in California, United States. Latitude 38 deg. 18' 3'' N. Longitude 122 deg. 46' 37'' W. Elevation 90 m. Two Rock, California; Walker Rd., 3 miles N of Two Rock; Button Ranch. Grassy pasture; sandy loam, 67% sand, 33% sh, 0 clay. pH 5.7. Upright. Flowers pale pink to whitish.

Wild. C-21. Collected 06/04/1994 in California, United States. Latitude 38 deg. 18' 3'' N. Longitude 122 deg. 46' 37'' W. Elevation 90 m. Two Rock, California; Walker Rd., 3 miles N of Two Rock; Button Ranch. Grassy pasture; sandy loam, 67% sand, 33% sh, 0 clay. pH 5.7. Upright. Flowers pale pink to whitish.

PI 593289. *Trifolium oliganthum* Steudel
Wild. C-22; Tomcat clover. Collected 06/04/1994 in California, United States. Latitude 38 deg. 18' 3'' N. Longitude 122 deg. 46' 37'' W. Elevation 90 m. Two Rock, California; Walker Rd., 3 miles N of Two Rock; Button Ranch. Grassy pasture; sandy loam, 67% sand, 33% sh, 0 clay. pH 5.7. Upright. Flowers reddish purple. One envelope possibly mixed with oliganthum but other envelope (same no.) thought to be pure. Will separate at a later date if possible.

PI 593290. *Trifolium wilddenovii* Sprengel
Wild. C-22A. Collected 06/04/1994 in California, United States. Latitude 38 deg. 18' 3'' N. Longitude 122 deg. 46' 37'' W. Elevation 90 m. Two Rock, California; Walker Rd., 3 miles N of Two Rock; Button Ranch. Grassy pasture; sandy loam, 67% sand, 33% sh, 0 clay. pH 5.7. One envelope possibly mixed with oliganthum but other envelope (same no.) thought to be pure. This is the second envelope.

PI 593291. *Trifolium wilddenovii* Sprengel
Wild. C-24; Tomcat clover. Collected 06/06/1994 in California, United States. Latitude 38 deg. 24' 10'' N. Longitude 122 deg. 14' 14'' W. Elevation 470 m. Napa. 4 miles NE on Atlas Peek Rd. Chapparel foothills with vernal pools; wild oat, bunch grasses, festuca californicum, scrub oak, vicia, western wild rye, ryegrass. Sandy loam; 67% sand, 33% sh, 0

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PI 593292. Trifolium microcephalum Pursh

PI 593293. Trifolium microdon Hook. & Arn.
Napa. 4 miles NE on Atlas Peak Rd. Chapparel foothills with vernal pools; wild oat, bunch grasses, festuca californicum, scrub oak, vicia, western wild rye, ryegrass. Sandy loam; 67% sand, 33% sh, 0 clay. pH 6.0. Upright but short. Flowers pink white.

PI 593294. Trifolium variegatum Nutt.
Napa. 4 miles NE on Atlas Peak Rd. Chapparel foothills; along drain from vernal pool. Decumbent. Flowers purple with white tip.

PI 593295. Trifolium depauperatum Desv.
Napa. 4 miles NE on Atlas Peak Rd. Chapparel foothills; along edge of dried-up vernal pool. Plants upright but very short.

PI 593296. Trifolium obtusiflorum Hook. & Arn.
Wild. C-29; Swamp clover. Collected 06/06/1994 in California, United States. Latitude 38 deg. 38' 6'' N. Longitude 122 deg. 24' 29'' W. Elevation 220 m. Napa. Pope Valley; Wallace Farm; 3 miles NE of Wantrup Wildlife Sanctuary; Creek about 1/2 mile N of farmhouse. Among rocks along bank of dry creek. Sandy soil; 93% sand, 7% sh, 0 clay. pH 7.3. Nice tall plants, very prickly calyx teeth. Upright. Flowers purple.

PI 593297. Trifolium gracilentum Torrey & A. Gray
Wild. C-30. Collected 06/06/1994 in California, United States. Latitude 38 deg. 37' 54'' N. Longitude 122 deg. 23' 18'' W. Elevation 210 m. Pope Valley. Wallace Farm; 3 miles NE of Wantrup Wildlife Sanctuary. Field at farm entrance about 1/2 mile S. of farmhouse. Pasture field, ryegrass, wild oat, medusa head. Sandy loam; 87% sand, 7% sh, 7% clay; pH 7.0. Scattered, hard to locate plants in open pasture. Procumbent.

PI 593298. Trifolium fucatum Lindley
Wild. C-32. Collected 06/06/1994 in California, United States. Latitude 38 deg. 39' 9'' N. Longitude 122 deg. 25' 39'' W. Elevation 240 m. Napa County. Pope Valley; Old Barnett Ranch; End of Barnett Rd., 1/4 mile N of cemetery. Abandoned grape vineyard; Sandy loam; 60% sand, 40% sh, 0 clay; pH 6.7. Rare scattering plants in between rows of grapes abandoned due to phyloxera. Plants erect.

PI 593299. Trifolium willdenovii Sprengel

The following were collected by Jake Ruygt, 3549 Willis Drive, Napa, California 94558, United States. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States; Ken H. Quesenberry, University of Florida, Department of Agronomy, 304 Newell Hall, Gainesville, Florida 32611-0500, United States. Received 10/17/1995.

PI 593300. Trifolium gracilentum Torrey & A. Gray
Wild. C-34. Collected 06/06/1994 in California, United States. Latitude 38 deg. 28' 45'' N. Longitude 122 deg. 27' 55'' W. Elevation 120 m. Napa County St. Helena; 1/2 mile S of Sulphur Springs Ave. on Lewelling Ranch. Procumbent.

PI 593301. Trifolium microdon Hook. & Arn.

PI 593302. Trifolium ciliolatum Benth.

The following were collected by Vern L. Yadon, 1119 Buena Viast Avenue, Pacific Grove, California 93950, United States. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States. Received 10/17/1995.

PI 593303. Trifolium microcephalum Pursh

The following were collected by Vern L. Yadon, 1119 Buena Viast Avenue, Pacific Grove, California 93950, United States. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States. Received 10/17/1995.

PI 593304. Trifolium polyodon E. Greene
Wild. C-38. Collected 06/07/1994 in California, United States. Latitude 36 deg. 35' 44'' N. Longitude 121 deg. 57' 40'' W. Elevation 8 m. Pacific Grove. Monterey Country Club, South Moss Beach, 1/4 mile N of
Bud Rd, along 17 mile drive. Sandy beach. Sandy loam; 80% sand, 13% sh, 7% clay; pH 5.7. 1994 seed.

PI 593305. **Trifolium trichocalyx** A. A. Heller
Wild. C-40. Collected 06/07/1994 in California, United States. Latitude 36 deg. 35' 1" N. Longitude 121 deg. 35' 29" W. Elevation 200 m. Pacific Grove. Intersection of Castenella Way and unnamed street. Area burned in 1987 or 1989; sandy; Clay loam; 47% sand, 27% sh, 27% clay; pH 5.6. Vern Yadon stated that plants were frequent after burn, but not seen much since. Seed harvested from pot grown at home in 1994.

The following were collected by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States. Received 10/17/1995.

PI 593306. **Trifolium polyodon** E. Greene
Wild. C-41. Collected 06/07/1994 in California, United States. Latitude 36 deg. 34' 37" N. Longitude 121 deg. 50' 28" W. Elevation 78 m. Pacific Grove. Olmstead Rd., Hwy 68, Monterra Ranch. Pasture field. Sandy loam; 60% sand, 33% sh, 7% clay; pH 5.5. Soil wet in winter but dried very hard in summer. Plants low growing.

The following were collected by Randall Morgan, 3500 N. Main St., Soquel, California 95073, United States. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States. Received 10/17/1995.

PI 593307. **Trifolium buckwestiorum** Isely
Wild. C-42. Collected 06/08/1994 in California, United States. Latitude 37 deg. N. Longitude 122 deg. W. Elevation 210 m. Swanton, Santa Cruz Co. Along old road bed; Scott Creek watershed. Shallow depression that collects water in winter; Associated with live oak, not in open grassland; Clay loam. Prostrate. Flowers white.

PI 593308. **Trifolium variegatum** Nutt.

PI 593309. **Trifolium barbigerum** Torrey

PI 593310. **Trifolium depauperatum** Desv.
PI 593311. *Trifolium barbigerum var. andrewsii* A. Gray


PI 593313. *Trifolium fucatum* Lindley

PI 593314. *Trifolium variegatum* Nutt.
Wild. C-50. Collected 06/08/1994 in California, United States. Latitude 37 deg. N. Longitude 122 deg. W. Elevation 213 m. Santa Cruz Co.; Scotts Valley; 1/4 mile north of school; north of Vine Hill School Rd. Grassland. Flowers are pink and more numerous per head than other variegatum; calyx is green, not purple tipped.

Wild. C-51. Collected 06/08/1994 in California, United States. Latitude 37 deg. N. Longitude 122 deg. W. Elevation 210 m. Swanton, Santa Cruz Co. Along old road bed going from Purdy Aluminum Scott Creek Watershed. This is the normal variegatum which occurs with the pseudo variegatum. Plants grow from seed collected in wild. This seed then is from the garden. Flowers purple with white tip.

PI 593316. *Trifolium barbigerum var. andrewsii* A. Gray

PI 593317. *Trifolium variegatum* Nutt.

PI 593318. *Trifolium barbigerum* Torrey
Wild. C-54. Collected 06/09/1994 in California, United States. Latitude 37 deg. N. Longitude 122 deg. W. Elevation 152 m. Santa Cruz; near summit of Swanton Rd., 1/2 mile S of summit; 1/2 mile inland of Pelican Rock. Level coastal terrace; open grassland with typical barbigerum nearby that does not appear to hybridize with this form. Sandy loam. Known in only 2-3 locations.

PI 593319. Trifolium macraei Hook. & Arn.

The following were collected by Lowell Ahart. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States. Received 10/17/1995.

PI 593320. Trifolium barbigerum var. andrewsii A. Gray
Wild. C-56. Collected 06/06/1994 in California, United States. Elevation 61 m. Butte Co. Oraville; T 20 N, R 3 E; Southwest 1/4 Sect. 27. About 1/2 mile east of large PG&E substation. East of Cottonwood Creek, about 4 miles NW of Oraville. Dark brown to black gravelly soil, side of small vernal pool or swale. Few plants found. Only form of Trifolium barbigerum found in Butte Co.

The following were collected by Randall Morgan, 3500 N. Main St., Soquel, California 95073, United States. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States. Received 10/17/1995.

PI 593321. Trifolium albopurpureum Torrey & A. Gray

The following were collected by Lowell Ahart. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States. Received 10/17/1995.

PI 593322. Trifolium fucatum Lindley

The following were collected by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky
PI 593323. Trifolium amoenum E. Greene

The following were collected by Randall Morgan, 3500 N. Main St., Soquel, California 95073, United States. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States. Received 10/17/1995.

PI 593324. Trifolium barbigerum Torrey

PI 593325. Trifolium arvense L.

PI 593326. Trifolium microdon Hook. & Arn.
Wild. OR-6. Collected 08/02/1994 in Oregon, United States. Latitude 43 deg. 1' 59'' N. Longitude 123 deg. 58' 41'' W. Coos Co. NE about 2-3 miles from Bridge, Oregon. Logging road; Euphoria Ridge No. 1.; meadow type grasses; stony steep slope; soil sand. Erect.

PI 593327. Trifolium variegatum Nutt.
Wild. OR-7. Collected 08/02/1994 in Oregon, United States. Latitude 43 deg. 1' 55'' N. Longitude 123 deg. 58' 41'' W. Coos Co. NE about 2-3 miles from Bridge, Oregon. Erect.

PI 593328. Trifolium albopurpureum Torrey & A. Gray
Wild. OR-8. Collected 08/02/1994 in Oregon, United States. Latitude 43
deg. 1' 59'' N. Longitude 123 deg. 58' 41'' W. Coos Co. NE about 2-3 miles from Bridge, Oregon. Low growing.

PI 593329. Trifolium variegatum Nutt.
Wild. OR-10. Collected 08/03/1994 in Oregon, United States. Latitude 42 deg. 24' 8'' N. Longitude 125 deg. 25' 19'' W. Elevation 1030 m. Curry Co., Agness. 8 miles NW of Agness, U.S. Forest Service Road. Serpentine rock face, nothing on face but clover, T. microcephalum. Sandy loam, pH 7.0. Traveled Rt. 33, then 3336, then 3340 from Lake of Woods, then to 110. Guided by Viva Stansells.

PI 593330. Trifolium microcephalum Pursh

PI 593331. Trifolium cyathiferum Lindley

PI 593332. Trifolium cyathiferum Lindley

PI 593333. Trifolium cyathiferum Lindley

PI 593334. Trifolium microcephalum Pursh
Wild. OR-31. Collected 08/11/1994 in Oregon, United States. Latitude 45 deg. 11' 11'' N. Longitude 121 deg. 18' 6'' W. Elevation 240 m. Tom McCall Preserve, Mayer State Park; approximately 8 miles west of Dalles on Ore 30. Rocky, open slope; grass species, no trees; on bluff over the Columbia River; sandy loam; pH 6.4. Low growing.

PI 593335. Trifolium cyathiferum Lindley

The following were collected by Karl Urban, 2517 W Hailey Ave., Pendleton, Oregon 97801, United States; Michael Rohde, 2517 W Hailey Ave., Pendleton, Oregon 97801, United States. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington,
PI 593336. **Trifolium cyathiferum** Lindley

PI 593337. **Trifolium cyathiferum** Lindley
Wild. OR-40; Cup clover. Collected 08/02/1994 in Oregon, United States. Latitude 45 deg. 43' N. Longitude 117 deg. 59' W. Elevation 1536 m. Near Ballon Tree Springs, Partridge Rd. Union Co.

PI 593338. **Trifolium macrocephalum** (Pursh) Poiret
Wild. OR-41; Big headed clover; W6 17569. Collected 08/01/1994 in Oregon, United States. Latitude 45 deg. 46' N. Longitude 118 deg. 3' W. Elevation 1539 m. Bald Mountain Helipad, Unatilla Co. Presented to N. Taylor and K. Quesenberry.

The following were collected by Mary Carlson, Douglas County Museum of History and Natural History, P. O. Box 1550, Roseberg, Oregon 97470, United States; Lois Hopkins, Douglas County Museum of History and Natural History, P. O. Box 1550, Roseberg, Oregon 97470, United States; Mildred Thiele, Douglas County Museum of History and Natural History, P. O. Box 1550, Roseberg, Oregon 97470, United States. Donated by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States; Ken H. Quesenberry, University of Florida, Department of Agronomy, 304 Newell Hall, Gainesville, Florida 32611-0500, United States. Received 10/17/1995.

PI 593339. **Trifolium cyathiferum** Lindley
Wild. OR-43. Collected 08/09/1994 in Oregon, United States. Elevation 990 m. Douglas Co., Tiller. South on Elk Creek Hw 1 to 1610 to 300 1/8 mile. Small pond on east side of road at bottom of a slope. Assoc. with Madia gracilis, grasses, Menth sp, Carex sp. Collected late in season. Much seed has been dispersed.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Weihong Gu, Shanghai Horticultural Institute, Shanghai Academy of Agricultural Sciences, Shanghai, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

PI 593340. **Citrullus lanatus** (Thunb.) Matsum. & Nakai
Landrace. ZWRM 2; Tai Hei Xi Gua. 100-400 black and brown seed. Fruit small.
PI 593341. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 3; Bin Gua. Light and dark seed color. Fruit medium size.

PI 593342. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 4; Shan Bai. Less than 25 large, light brown seed.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Guolian Zhang. Received 02/21/1995.

PI 593343. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 9. 100-400 tan with black tip seed. Fruit oblong, light-green skin color, red flesh. Early, good quality, easy fruit-set under humid conditions.

PI 593344. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 10. 100-400 medium-small, brown with black seed. Fruit round, medium-striped skin color, red flesh. Early, very thin rind, super fruit-set under humid conditions.

PI 593345. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 11. 100-400 medium-large, white with black seed. Skin color light green, red flesh, large fruit (>14 lb). High yield, fair quality. Good resistance to foliage diseases.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Chinese Academy of Agricultural Science, Institute of Pomology, Zhengzhou, Henan 450004, China. Received 02/21/1995.

PI 593346. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 21; Fuzhou Gua. 50-100 medium-small, black seed. Resistant to Fusarium wilt.

PI 593347. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 22; Yixuang. 50-100 medium-small, black seed. Fruit round, light green skin color, red flesh. Nematode resistant.

PI 593348. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 23; Zhongyu No. 1. 50-100 medium-small, tan with black tip seed. Fruit round, medium striped skin color, red flesh. Early...
maturity. Nematode resistant.

PI 593349. **Citrullus lanatus** (Thunb.) Matsum. & Nakai
Landrace. ZWRM 24; Shan Bei. 50-100 large, white seed. Fruit round, white skin color, white flesh.

PI 593350. **Citrullus lanatus** (Thunb.) Matsum. & Nakai
Landrace. ZWRM 25; Malingua. 50-100 medium-small, black-brown seed. Fruit oblong, medium striped skin color, yellow flesh. Early maturity.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Chinese Academy of Agricultural Science, Vegetable and Floral Research Institute, Zhengzhou, Henan 450004, China. Received 02/21/1995.

PI 593351. **Citrullus lanatus** (Thunb.) Matsum. & Nakai
Landrace. ZWRM 26; Hetaowen. 50-100 large, red seed. Fruit oblong fruit, light green skin color, yellow flesh.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Chinese Academy of Agricultural Science, Institute of Pomology, Zhengzhou, Henan 450004, China. Received 02/21/1995.

PI 593352. **Citrullus lanatus** (Thunb.) Matsum. & Nakai
Landrace. ZWRM 27; Xiao Hua Li Hu. 50-100 medium-small, white with black seed. Fruit round, medium striped skin color, red flesh.

PI 593353. **Citrullus lanatus** (Thunb.) Matsum. & Nakai
Landrace. ZWRM 28; Beigua. 50-100 medium-small, brown seed. Fruit oval, wide striped skin color, small (3 lb.).

PI 593354. **Citrullus lanatus** (Thunb.) Matsum. & Nakai
Landrace. ZWRM 29; Taojin. 50-100 large, white with tan tip seed. Fruit round, narrow striped skin color, yellow flesh.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375,


PI 593357. *Citrullus lanatus* (Thunb.) Matsum. & Nakai Landrace. ZWRM 48; High quality commercial. 50-100 medium-small, dark brown mottled seed.

PI 593358. *Citrullus lanatus* (Thunb.) Matsum. & Nakai Landrace. ZWRM 49; Yellow Rind Watermelon. 50-100 medium-small, black seed.


The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Depei Lin, Western China Group Seed Co., Changji, Xinjiang, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

PI 593361. *Citrullus lanatus* (Thunb.) Matsum. & Nakai Landrace. ZWRM 77; Zhongyau No. 6. 100-400 dark brown seed. Dark green skin color, red flesh.


PI 593364. *Citrullus lanatus* (Thunb.) Matsum. & Nakai Landrace. ZWRM 80; Three Dan No. 4. 100-400 medium-small, tan seed. Dark
green skin color, red flesh.

PI 593365. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 81; Xinchenhong. 25-50 medium-small, brown seed. Fruit
oblong, light green skin color, red flesh.

PI 593366. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 82; Kalatawuzi. 25-50 large, dark brown seed. Light green
skin color, red flesh.

PI 593367. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 83; Du No. 3. 25-50 medium-small, dark brown seed. Fruit
round, medium striped skin color, red flesh.

PI 593368. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 84; Yixuan. 25-50 medium small, black seed. Fruit round
fruit, light green skin color, red flesh. Best quality.

PI 593369. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 85; Jizaogua (Chicken Feed). Less than 25 large, dark
brown seed.

PI 593370. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 86; Changhui. 25-50 small, white with tan seed. Fruit
long fruit, light green skin color, red flesh. Pollen parent of the most
famous F1 hybrid (Xinchen F1).

PI 593371. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 87; Raketawuzi. 25-50 medium-small, dark brown seed.
Flesh red.

PI 593372. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 88; Kalaxiaboke. 25-50 medium-small, tan seed. Flesh red.

PI 593373. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 89; Mapimazi. 25-50 medium-small, black seed. Fruit
round, light green skin color, red flesh.

PI 593374. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 90; Akekewuziwei. 25-50 black seed.

PI 593375. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 91; Dahongzianchong. Less than 25 medium-small, brown
with black seed. Red flesh.

PI 593376. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 92; Fuyang. 25-50 medium-small, brown seed. Light green
skin color, red flesh.

PI 593377. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 93; Meiliquinfeng. 25-50 medium-small, brown seed. Light
green skin color, red flesh. Tough rind.

PI 593378. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 94; Hetaowen. 25-50 medium-small, tan seed. Light green
skin color, red flesh.

PI 593379. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 95; Xianxiaogua. 25-50 small, black seed. Light green skin color, red flesh.

PI 593380. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 96; Jinlu. 25-50 medium-small, brown seed. Fruit round, medium striped skin color, red flesh.

PI 593381. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 97; Xiaozihu. 25-50 medium-small, tan seed. Fruit oblong, light green skin color, red flesh.

PI 593382. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 98; Changmeihong. Less than 25 medium-small, brown seed. Fruit round, light green skin color, red flesh.

PI 593383. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 99; Zaohua. 100-400 medium-small, tan with black tip seed. Fruit oblong, medium striped skin color, red flesh. F1 characteristic.

PI 593384. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 100; Dhogyu No. 1. 100-400 medium-small, tan with black tip seed. Fruit oblong, medium striped skin color, red flesh.

PI 593385. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 101; Zhengzha No. 5. 100-400 medium-small, tan with black tip seed. Fruit round, medium striped skin color, red flesh.

PI 593386. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 102; Jinhuaob F1. Less than 400 medium-small, tan with black tip seed. Fruit oblong, medium striped skin color, red flesh.

PI 593387. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 103; Xinyiu No. 2. Less than 400 medium-small, brown seed. Fruit oblong, medium striped skin color, red flesh.

PI 593388. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 104; Hongyou No. 9. Less than 400 medium-small, brown seed. Fruit round, medium striped skin color, red flesh.

PI 593389. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 105; Hongyou No. 11. Less than 400 medium-small, light brown seed. Fruit oblong, medium striped skin color, red flesh.

PI 593390. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
Landrace. ZWRM 111; Xiaojinpi. 100-400 medium-small, brown seed. Light green skin color, red flesh.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of
PI 593391. *Luffa aegyptiaca* Miller
Landrace. ZWRM 6; Chang Shi Gua. 50-100 medium-small, black seed.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Weihong Gu, Shanghai Horticultural Institute, Shanghai Academy of Agricultural Sciences, Shanghai, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

PI 593392. *Luffa aegyptiaca* Miller
Landrace. ZWRM 7. 100-400 black seed. Local luffa grown in Shanghai area. Received in foil laminated envelope.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Zhouggou Qi, Shanghai, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Guolian Zhang. Received 02/21/1995.

PI 593393. *Luffa aegyptiaca* Miller
Landrace. ZWRM 12. 50-100 seed. Local variety used as vegetable.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Ming Wang, Northwestern Agricultural University, Department of Horticulture, Yangling, Shaanxi, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

PI 593394. *Luffa aegyptiaca* Miller
Landrace. ZWRM 44; Early Luffa. 100-400 black seed. Vegetable and sponge.
PI 593395. *Luffa aegyptiaca* Miller
Landrace. ZWRM 45; Shaanxi Luffa. 100-400 black seed. Vegetable and sponge.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Chinese Academy of Agricultural Science, Vegetable and Floral Research Institute, Beijing, Beijing, China. Received 02/21/1995.

PI 593396. *Luffa acutangula* (L.) Roxb.
Landrace. ZWRM 133; Leng Si Gua. 25-50 seed.

PI 593397. *Luffa aegyptiaca* Miller
Landrace. ZWRM 134; Pang Si Gua. 25-50 seed.

PI 593398. *Luffa acutangula* (L.) Roxb.
Landrace. ZWRM 135; Ba Leng Gua. 25-50 seed.

PI 593399. *Luffa aegyptiaca* Miller
Landrace. ZWRM 136; Xiang Si Gua. 25-50 seed.

PI 593400. *Luffa acutangula* (L.) Roxb.
Landrace. ZWRM 137; Shi Ting Da Qing Pi. 25-50 seed.

PI 593401. *Luffa aegyptiaca* Miller
Landrace. ZWRM 138; Qing Pi Chang Si Gua. 25-50 seed.

PI 593402. *Luffa aegyptiaca* Miller
Landrace. ZWRM 139; Chang Sha Bai Si Gua. 25-50 seed.

PI 593403. *Luffa acutangula* (L.) Roxb.
Landrace. ZWRM 140; Dong Wan Shuang Qing. 25-50 seed.

PI 593404. *Luffa aegyptiaca* Miller
Landrace. ZWRM 141; Quan Zhou Chang Tiao Gua. 25-50 seed.

PI 593405. *Luffa aegyptiaca* Miller
Landrace. ZWRM 142; Chang Sha Rou Si Gua. 25-50 seed.

The following were collected by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States.
PI 593406. Momordica charantia L.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; Bill Rhodes, Clemson University, Dept. of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Chinese Academy of Agricultural Science, Vegetable and Floral Research Institute, Beijing, Beijing, China. Received 02/21/1995.

PI 593407. Momordica charantia L.
   Landrace. ZWRM 132. 50-100 seed.

The following were developed by USDA Forage-Crop Field Station, Redfield, South Dakota, United States. Donated by Agricultural Research Service -- USDA, Beltsville Agricultural Research Center, Beltsville, Maryland 20705, United States. Received 1961.

PI 593408. Melilotus suaveolens Ledeb.
   Cultivar. "REDFIELD"; "REDFIELD YELLOW"; NSL 5485. Pedigree - From PI 40937 as documented by Kirk and Davidson (1928). Received by the USDA from China in 1915 as Melilotus albus, and later found to be Melilotus suaveolens. Late maturing, developed in South Dakota for use on the northern Great Plains. Said to be susceptible to disease organisms which occur in the humid sections of the United States.

The following were developed by Barbara L. Rose, University of California, Department of Botany, Davis, California 95616, United States; W. Meyer, Pure-Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon 97032, United States; R.H. Bailey, R.H. Bailey Seed Inc., 2700 19th Street, S.E. No. 1, Salem, Oregon 97302, United States; C.R. Funk, Hubbard Seed and Supply Company, P.O. Box 310, Hubbard, Oregon 97032, United States; K.J. McVeigh, Williamette Valley Plant Breeders, Inc., Brownsville, Oregon, United States. Donated by Rutgers University, New Jersey Agriculture Experiment Station, New Brunswick, New Jersey 08903, United States. Received 1977.

PI 593409. Poa pratensis L.
to leaf spot and crown rot disease. Moderately susceptible to powdery mildew and leaf rust. Adapted to most regions where Kentucky bluegrass is suited.

The following were developed by C. R. Funk, Rutgers University, Cook College, Dept. of Soils and Crops, New Brunswick, New Jersey 08903, United States; G. Pepin, International Seeds, Inc., P. O. Box 168, Halsey, Oregon 97348, United States; R. J. Peterson, R. J. Peterson Enterprises Inc., P. O. Box 312, Forest Grove, Oregon 97116, United States; A. M. Radko, United States Golf Association, Green Section, Highland Park, New Jersey 08904, United States; R. E. Engel, Rutgers University, New Brunswick, New Jersey 08903, United States. Donated by Rutgers University, New Jersey Agriculture Experiment Station, New Brunswick, New Jersey 08903, United States. Received 1977.

PI 593410. Poa pratensis L.
Cultivar. "BONNIEBLUE"; Plant Patent 3152; NJE P-106; NSL 95683. CV-10; Plant Patent 3152. Pedigree - Highly apomictic first generation hybrid developed by crossing Bellevue and Pennstar Kentucky bluegrasses. Chromosome number approximately 94. Moderately low-growing, leafy, turf-type bluegrass with good density and vigor, medium texture, and attractive moderately dark green color. Good resistance to leaf spot and crown rot disease caused by Helminthosporium vagans and stripe smut (Ustilago striiformis). Moderate resistance to leaf rust (Puccinia paenemoralis) and snowmold (Typhula itoana). Recommended for use in lawns, parks, athletic fields and golf courses. Adapted to areas where summer stress conditions not severe.

The following were developed by G. W. Pepin, Pickseed West, Inc., P. O. Box 888, Tangent, Oregon, United States; R. J. Peterson, Peterson Enterprises, Inc., Suite 410, Colonial Office Plaza, 1049 S.W. Baseline, Hillsboro, Oregon 97123, United States; C. R. Funk, Hubbard Seed and Supply Company, P. O. Box 310, Hubbard, Oregon 97032, United States. Donated by Rutgers University, New Jersey Agriculture Experiment Station, New Brunswick, New Jersey 08903, United States. Received 1977.

PI 593411. Poa pratensis L.

The following were developed by Virgil D. Meier, O. M. Scott & Sons Company, Turfgrass Res. and Develop., Marysville, Ohio 43041, United States; C. R. Funk, Rutgers University, Cook College, Dept. of Soils and Crops, New Brunswick, New Jersey 08903, United States; J. A. Long, O. M. Scott & Sons Company, Turf Product Developement, New Jersey, United States; P. E. Dade, O. M. Scott & Sons Company, Seed Res. and Production, New Jersey, United
PI 593412. Poa pratensis L.

The following were developed by Sunseeds, Inc., United States. Received 1973.

PI 593413. Lactuca sativa L.
Cultivar. "PICOVERDE"; NSL 83500. PVP 7300016. Early, large headed Great Lakes type developed for late spring harvest. Head large, lush, green, slightly flattened with an attractive butt. Outstanding carton-packed shipping lettuce.

The following were developed by Asgrow Seed Company, United States. Received 1973.

PI 593414. Lactuca sativa L.

The following were developed by Ferry-Morse Seed Company, United States. Received 1973.

PI 593415. Lactuca sativa L.

PI 593416. Lactuca sativa L.

PI 593417. Lactuca sativa L.
The following were developed by Asgrow Seed Company, United States. Received 1974.

PI 593418. Lactuca sativa L.
Cultivar. "OASIS"; NSL 84960. PVP 7300070.

PI 593419. Lactuca sativa L.
Cultivar. "TEMPE"; NSL 84961. PVP 7300069.

The following were developed by Moran Seeds, Inc., United States. Donated by Moran Seeds, Inc.. Received 1974.

PI 593420. Lactuca sativa L.
Cultivar. "CALMARIA"; NSL 86532. PVP 7400013.

The following were developed by Harnish-Brinker Seed, United States. Received 1974.

PI 593421. Lactuca sativa L.
Cultivar. "WINTERHAVEN"; NSL 86581. PVP 7400015.

The following were developed by Moran Seeds, Inc., United States. Donated by Moran Seeds, Inc.. Received 1974.

PI 593422. Lactuca sativa L.
Cultivar. "CAL K-60"; NSL 86582. PVP 7400014.

PI 593423. Lactuca sativa L.
Cultivar. "CABRILLO"; NSL 86583. PVP 7400071.

The following were developed by Asgrow Seed Company, United States; W.L. Green, University of California, Agronomy and Range Science, Davis, California 95616-8515, United States. Donated by Asgrow Seed Company, United States. Received 1974.

PI 593424. Lactuca sativa L.
Cultivar. "CITATION"; NSL 86667. PVP 7400095.

The following were developed by B.C. Seeds, Inc., United States. Received 1975.

PI 593425. Lactuca sativa L.
Cultivar. "RED COACH 74"; NSL 90080. PVP 7400010.

The following were developed by Quali-Sel, Inc., United States. Received 1975.

PI 593426. Lactuca sativa L.
Cultivar. "EXCELL"; NSL 90532. PVP 7500041.

PI 593427. Lactuca sativa L.
Cultivar. "RED COACH 74A"; NSL 92332. PVP 7400024.

PI 593428. Lactuca sativa L.
Cultivar. "DOMINGOS 41"; NSL 92333. PVP 7400019.

PI 593429. Lactuca sativa L.
Cultivar. "DOMINGOS 43"; NSL 92505. PVP 7600003.

The following were developed by Moran Seeds, Inc., United States. Donated by Moran Seeds, Inc.. Received 1976.

PI 593430. Lactuca sativa L.
Cultivar. "MORANGOLD"; NSL 92600. PVP 7600039.

The following were developed by Victor Heintzberger, Bruce Church Company, 1020 Merrill Street, Salinas, California 93912, United States. Received 1977.

PI 593431. Lactuca sativa L.
Cultivar. "DOMINGOS 42"; NSL 92631. PVP 7600008.

The following were developed by Sunseeds, Inc., United States. Received 1977.

PI 593432. Lactuca sativa L.
Cultivar. "CHAPARRAL"; NSL 95166. PVP 7600052.

PI 593433. Lactuca sativa L.
Cultivar. "MESAVERDE"; NSL 95168. PVP 7600055.

PI 593434. Lactuca sativa L.
Cultivar. "GUSTAVERDE"; NSL 95262. PVP 7600054.

PI 593435. Lactuca sativa L.
Cultivar. "COSTAVERDE"; NSL 95263. PVP 7600053.

The following were developed by FMC Corporation, Agricultural Chemical Division, P.O. Box 3091, Modesto, California 95353, United States. Received 1977.

PI 593436. Lactuca sativa L.
Cultivar. "VANAGARA"; NSL 95691. PVP 7600032.

The following were developed by Royal Sluis B.V., Netherlands. Received 1987.

PI 593437. Lactuca sativa L.
Cultivar. "CORSICA"; NSL 217405. PVP 8700181.
The following were collected by Robert J. Metzger, USDA, ARS, Oregon State University, Dept. of Crop Science, Corvallis, Oregon 97331, United States; Hoffman. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/17/1993.

PI 593438. Elytrigia repens (L.) Desv. ex Nevski
Wild. MH-114-1085; R-7-36--45; W6 13943. Collected in Turkey. Elevation 1700 m. Edge of wheat field 56km northwest of Eleskirt, Erzurum Province.

The following were donated by C. E. Townsend, USDA, ARS, Crops Research Laboratory, 1701 Center Avenue, Fort Collins, Colorado 80526, United States. Received 1979.

PI 593439. Astragalus cicer L.

PI 593440. Astragalus cicer L.
Breeding. C-9; NSL 103824. GP-27.

The following were donated by P.Y.P. Tai, USDA-ARS, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States. Received 02/27/1996.

PI 593441. Saccharum spontaneum L.
Wild. IND 81-122. Collected in India.

PI 593442. Saccharum spontaneum L.
Wild. IND 82-241. Collected in India.

PI 593443. Saccharum spontaneum L.

The following were developed by P.Y.P. Tai, USDA-ARS, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States. Received 07/06/1939.

PI 593444. Saccharum spontaneum L.

The following were donated by P.Y.P. Tai, USDA-ARS, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States. Received 02/27/1996.

PI 593445. Saccharum spontaneum L.

PI 593446. Saccharum spontaneum L.

PI 593447. Saccharum spontaneum L.

PI 593448. Saccharum spontaneum L.

PI 593449. Saccharum spontaneum L.

PI 593450. Saccharum spontaneum L.

PI 593451. Saccharum spontaneum L.

PI 593452. Saccharum spontaneum L.

PI 593453. Saccharum spontaneum L.

PI 593454. Saccharum spontaneum L.

The following were developed by A. Duda & Sons, Inc., United States. Received 02/28/1996.

PI 593455. Raphanus sativus L.
Cultivar. "KRASNA". PVP 9600111.

The following were developed by DeKalb Genetics Corporation, United States. Received 02/28/1996.

PI 593456. Zea mays L. ssp. mays
Breeding. FBLLWX. PVP 9600112.

PI 593457. Zea mays L. ssp. mays
Breeding. MBZAWX. PVP 9600113.

The following were developed by Asgrow Seed Company, United States. Received 02/28/1996.

PI 593458. Allium cepa L.
Cultivar. "ENCINO". PVP 9600114.

The following were developed by Northrup King Company, United States. Received 02/28/1996.

PI 593459. Zea mays L. ssp. mays
Breeding. "942". PVP 9600116.

PI 593460. Zea mays L. ssp. mays
Breeding. 991. PVP 9600117.

**PI 593461. Zea mays L. ssp. mays**
Breeding. 993. PVP 9600118.

**PI 593462. Zea mays L. ssp. mays**

The following were developed by R.L. Cooper, USDA-ARS, Ohio State University, 1680 Madison, Wooster, Ohio 44691-4096, United States; Ohio Agricultural Research & Development Center, Ohio, United States; A.J. Calip-DuBois, Ohio State University, Ohio Agricultural Res. and Develop. Ctr., Dept. of Horticulture and Crop Science, Columbus, Ohio 43210, United States; Ron Fioritto, Ohio State University, Ohio Agricultural Research & Development Center, Dept. of Horticulture & Crop Science, Wooster, Ohio 44691, United States; S.K. St. Martin, Ohio State University, Dept. of Horticulture and Crop Science, 2021 Coffey Road, Columbus, Ohio 43210, United States; A.F. Schmitthenner, Ohio State University, Dept. of Plant Pathology, Columbus, Ohio 43210, United States; R.J. Martin, USDA, ARS, Ohio State University, Dept. of Food Science and Technology, Columbus, Ohio 43210, United States. Received 01/21/1997.

**PI 593463. Glycine max (L.) Merr.**

The following were developed by New Zealand Agriseeds, Ltd., New Zealand. Received 02/28/1996.

**PI 593464. Lolium perenne L.**
Cultivar. "DOBSON". PVP 9600122.

**PI 593465. Lolium perenne L.**
Cultivar. "VEDETTE". PVP 9600123.

The following were developed by DeKalb Genetics Corporation, United States. Received 02/28/1996.

**PI 593466. Zea mays L. ssp. mays**
Cultivar. "3IIH6WX". PVP 9600124.

The following were developed by University of Nebraska-Lincoln, Lincoln, Nebraska, United States. Received 02/28/1996.

**PI 593467. Buchloe dactyloides (Nutt.) Engelm.**
Cultivar. "CODY". PVP 9600125.
The following were developed by Crites Moscow Growers, Inc., Moscow, Idaho, United States. Received 02/28/1996.

**PI 593468. Pisum sativum L.**
Cultivar. "CRYSTAL". PVP 9600126.

The following were developed by Asgrow Seed Company, United States. Received 02/28/1996.

**PI 593469. Pisum sativum L.**
Cultivar. "DARIEN". PVP 9600127. Garden type.

**PI 593470. Phaseolus vulgaris L.**
Cultivar. "CYGNUS". PVP 9600128.

**PI 593471. Phaseolus vulgaris L.**
Cultivar. "FOCUS". PVP 9600129.

**PI 593472. Phaseolus vulgaris L.**
Cultivar. "VISION". PVP 9600130.

The following were developed by Vilmorin S.A., France. Received 02/28/1996.

**PI 593473. Phaseolus vulgaris L.**
Cultivar. "FINEL". PVP 9600133.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

**PI 593474. Capsicum annuum L.**
Cultivated. 10059; Chimayo.

**PI 593475. Capsicum annuum L.**
Cultivated. 10061; Espanola #1.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Gabor Csillery, Vegetable Crops Research Institute, Budapest Station, 1775 Budapest, Pf. 95, Budapest, Hungary. Received 01/06/1994.

**PI 593476. Capsicum annuum L.**
Cultivated. 10113; Taranyi.

**PI 593477. Capsicum annuum L.**
Cultivated. 10117; Puski.
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593478. Capsicum annuum L.
    Cultivated. 10132; GRC-GGB-4535; PT1014.

PI 593479. Capsicum annuum L.
    Cultivated. 10138; GRC-GGB-4527; PT 513.

The following were donated by Ken Owens, Petoseed Company, Inc., Woodland Research Station, 37437 State Highway 16, Woodland, California 95695, United States; Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593480. Capsicum annuum L.
    Cultivated. 10187; Mayorka.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593481. Capsicum annuum L.
    Cultivated. 10194; IHR-309.

The following were donated by Redwood City Seed Company, P.O. Box 361, Redwood City, California 94064, United States; Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States.Received 01/06/1994.

PI 593482. Capsicum annuum L.
    Cultivated. 10200; Peherozon Sweet.

PI 593483. Capsicum annuum L.
    Cultivated. 10202; Takanotsume.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Javier Salinas, C.P.A.E. Bajio, Km. 6 Carretera Celaya Sn. Miguel de Allende, A.P.D.O. Postal No. 112, Celaya, Guanajuato, Mexico. Received 01/06/1994.

PI 593484. Capsicum annuum L.
    Cultivated. 10204; BG38.

PI 593485. Capsicum annuum L.
    Cultivated. 10210; BG635.

PI 593486. Capsicum annuum L.
    Cultivated. 10232; BG998.
The following were collected by Javier Salinas, C.P.A.E. Bajio, Km. 6 Carreterra Celaya Sn. Miguel de Allende, A.P.D.O. Postal No. 112, Celaya, Guanajuato, Mexico. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 12/18/1992.

- **PI 593487. Capsicum annuum** L. Cultivated. 10236; BG1002.
- **PI 593488. Capsicum annuum** L. Cultivated. 10239; BG1506.
- **PI 593489. Capsicum annuum** L. Cultivated. 10240; BG1507.
- **PI 593490. Capsicum annuum** L. Cultivated. 10242; BG1512.
- **PI 593491. Capsicum annuum** L. Cultivated. 10243; BG1513.
- **PI 593492. Capsicum annuum** L. Cultivated. 10244; BG1514.
- **PI 593493. Capsicum annuum** L. Cultivated. 10258; BG1617.
- **PI 593494. Capsicum annuum** L. Cultivated. 10262; BG1629.
- **PI 593495. Capsicum annuum** L. Cultivated. 10263; BG1638.
- **PI 593496. Capsicum annuum** L. Cultivated. 10264; BG1642.
- **PI 593497. Capsicum annuum** L. Cultivated. 10271; BG1661.
- **PI 593498. Capsicum annuum** L. Cultivated. 10272; BG1662.
- **PI 593499. Capsicum annuum** L. Cultivated. 10274; BG1669.
- **PI 593500. Capsicum annuum** L. Cultivated. 10277; BG1800.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico. Received 12/18/1992.

- **PI 593501. Capsicum annuum** L. Cultivated. 10278; BG1675; Grif 11492. Collected in Mexico.
Mexico 88003, United States; Javier Salinas, C.P.A.E. Bajio, Km. 6 Carreterra Celaya Sn. Miguel de Allende, A.P.D.O. Postal No. 112, Celaya, Guanajuato, Mexico. Received 01/06/1994.

PI 593502. Capsicum annuum L.
Cultivated. 10284; BG1647.

PI 593503. Capsicum annuum L.
Cultivated. 10288; BG1795.

PI 593504. Capsicum annuum L.
Cultivated. 10289; BG1798.

PI 593505. Capsicum annuum L.
Cultivated. 10290; BG1799.

PI 593506. Capsicum annuum L.
Cultivated. 10291; BG1801.

PI 593507. Capsicum annuum L.
Cultivated. 10303; BG1852.

PI 593508. Capsicum annuum L.
Cultivated. 10307; BG2529.

PI 593509. Capsicum annuum L.
Cultivated. 10321; BG2728.

PI 593510. Capsicum annuum L.
Cultivated. 10323; BG2732.

PI 593511. Capsicum annuum L.
Cultivated. 10325; BG2736.

PI 593512. Capsicum annuum L.
Cultivated. 10327; BG2747.

PI 593513. Capsicum annuum L.
Cultivated. 10334; BG2786.

The following were collected by Javier Salinas, C.P.A.E. Bajio, Km. 6 Carreterra Celaya Sn. Miguel de Allende, A.P.D.O. Postal No. 112, Celaya, Guanajuato, Mexico. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 12/18/1992.

PI 593514. Capsicum annuum L.
Cultivated. 10336; BG2796; Grif 9408. Collected in Mexico.

PI 593515. Capsicum annuum L.
Cultivated. 10338; BG2797; Grif 9074. Collected in Mexico.

PI 593516. Capsicum annuum L.
Cultivated. 10342; BG2802; Grif 9409. Collected in Mexico.
The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Javier Salinas, C.P.A.E. Bajio, Km. 6 Carreterra Celaya Sn. Miguel de Allende, A.P.D.O. Postal No. 112, Celaya, Guanajuato, Mexico. Received 01/06/1994.

PI 593517. Capsicum annuum L.
Cultivated. 10353; BG3189.

PI 593518. Capsicum annuum L.
Cultivated. 10358; BG3212.

PI 593519. Capsicum annuum L.
Cultivated. 10362; BG3228.

PI 593520. Capsicum annuum L.
Cultivated. 10364; BG3230.

PI 593521. Capsicum annuum L.
Cultivated. 10366; BG3241.

PI 593522. Capsicum annuum L.
Cultivated. 10367; BG3241.

PI 593523. Capsicum annuum L.
Cultivated. 10372; BG3291.

PI 593524. Capsicum annuum L.
Cultivated. 10373; BG3295.

PI 593525. Capsicum annuum L.
Cultivated. 10387; BG3317.

PI 593526. Capsicum annuum L.
Cultivated. 10388; BG3317.

PI 593527. Capsicum annuum L.
Cultivated. 10389; BG3318.

PI 593528. Capsicum annuum L.
Cultivated. 10392; BG3326.

PI 593529. Capsicum annuum L.
Cultivated. 10398; BG3428.

PI 593530. Capsicum annuum L.
Cultivated. 10399; BG3431.

PI 593531. Capsicum annuum L.
Cultivated. 10403; BG3435.

PI 593532. Capsicum annuum L.
Cultivated. 10411; BG3451.
PI 593533. Capsicum annuum L.
Cultivated. 10431; BG3577.

PI 593534. Capsicum annuum L.
Cultivated. 10442; Pabellon Pasilla.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593535. Capsicum annuum L.
Cultivated. 10447; Chorro #2.

PI 593536. Capsicum annuum L.
Cultivated. 10448; Chorro #3.

PI 593537. Capsicum annuum L.
Cultivated. 10449; Chorro #16.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593538. Capsicum annuum L.
Cultivated. 10477; Esmeralda Ancho.

PI 593539. Capsicum annuum L.
Cultivated. 10478; Navojoa Piquin.

PI 593540. Capsicum annuum L.
Cultivated. 10481; Real Mirasol.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593541. Capsicum annuum L.
Cultivated. 10484; Cascabel.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593542. Capsicum annuum L.
Cultivated. 10499; BG3466.
The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Everardo Zamora, Sonora University, Hermosillo, Sonora, Mexico. Received 01/06/1994.

PI 593543. *Capsicum annuum* L.  
Cultivated. 10545; Chiletepin.

PI 593544. *Capsicum annuum* L.  
Cultivated. 10547; Chiletepin.

PI 593545. *Capsicum annuum* L.  
Cultivated. 10550; GN84170-6.

PI 593546. *Capsicum annuum* L.  
Cultivated. 10553; GN84170-9.

PI 593547. *Capsicum annuum* L.  
Cultivated. 10554; GN84170-14.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Gabor Csillery, Vegetable Crops Research Institute, Budapest Station, 1775 Budapest, Pf. 95, Budapest, Hungary. Received 01/06/1994.

PI 593548. *Capsicum annuum* L.  
Cultivated. 10560; Syn. Cecei.

PI 593549. *Capsicum annuum* L.  
Cultivated. 10564; Harosi Zold.

PI 593550. *Capsicum annuum* L.  
Cultivated. 10565; Feherozon.

PI 593551. *Capsicum annuum* L.  
Cultivated. 10566; Feherozon Super.

PI 593552. *Capsicum annuum* L.  
Cultivated. 10567; Feherozon Fal.

PI 593553. *Capsicum annuum* L.  
Cultivated. 10568; Tizenegues.

PI 593554. *Capsicum annuum* L.  
Cultivated. 10571; Budai Csipos Hajtatasi.
PI 593555. Capsicum annuum L.  
Cultivated. 10575; GN84170-18.

The following were donated by Paul W. Bosland, New Mexico State University,  
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New  
Mexico 88003, United States; Gabor Csillery, Vegetable Crops Research  
Institute, Budapest Station, 1775 Budapest, Pf. 95, Budapest, Hungary.  
Received 01/06/1994.

PI 593556. Capsicum annuum L.  
Cultivated. 10577; Greygo.

The following were donated by Paul W. Bosland, New Mexico State University,  
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New  
Mexico 88003, United States; Everardo Zamora, Sonora University, Hermosillo,  
Sonora, Mexico. Received 01/06/1994.

PI 593557. Capsicum annuum L.  
Cultivated. 10590; GN84170-20.

The following were donated by Paul W. Bosland, New Mexico State University,  
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New  
Mexico 88003, United States; Enio Aguilar, 23 Av. 30-36, Zona 5, Guatemala  
City, Guatemala, Guatemala. Received 01/06/1994.

PI 593558. Capsicum annuum L.  
Cultivated. 10591; #490.

The following were donated by Paul W. Bosland, New Mexico State University,  
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New  
Mexico 88003, United States. Received 01/06/1994.

PI 593559. Capsicum annuum L.  
Cultivated. 10604.

PI 593560. Capsicum annuum L.  
Cultivated. 10605; Passavinho.

The following were donated by Paul W. Bosland, New Mexico State University,  
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New  
Mexico 88003, United States; Ron Hooks, New Mexico State University,  
Agricultural Science Center, Los Lunas, New Mexico 88003, United States.  
Received 01/06/1994.

PI 593561. Capsicum annuum L.  
Cultivated. 10606; Rio Grande.

The following were donated by Paul W. Bosland, New Mexico State University,  
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New
Mexico 88003, United States. Received 12/18/1992.

PI 593562. Capsicum annuum L.
Cultivated. 10634; 132; Grif 9187. Collected in Colombia.

PI 593563. Capsicum annuum L.
Cultivated. 10635; BG1834.

PI 593564. Capsicum annuum L.
Cultivated. 10641; BG1635; Grif 9439. Collected in Mexico.

PI 593565. Capsicum annuum L.
Cultivated. 10644; Candlelight.

PI 593566. Capsicum annuum L.
Cultivated. 10647; Peter Pepper.

PI 593567. Capsicum annuum L.
Cultivated. 10655; BG1875.

PI 593568. Capsicum annuum L.
PI 593569. Capsicum annuum L.
Cultivated. 10660; BG3308.

The following were collected by Javier Salinas, C.P.A.E. Bajio, Km. 6 Carretera Celaya Sn. Miguel de Allende, A.P.D.O. Postal No. 112, Celaya, Guanajuato, Mexico. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 12/18/1992.

PI 593570. Capsicum annuum L.
Cultivated. 10661; BG3415; Grif 9438. Collected in Mexico.

The following were collected by P.G. Smith, University of California, Department of Vegetable Crops, Davis, California 95616, United States. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; A. A. Cook, University of Florida, Florida, United States. Received 01/01/1980.

PI 593571. Capsicum annuum L.
Cultivated. YOLO Y. Collected in California, United States.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593572. Capsicum annuum L.
Cultivated. 10687; Embrapa 431.

PI 593573. Capsicum annuum L.
Cultivated. 10688; Embrapa 148.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Everardo Zamora, Sonora University, Hermosillo, Sonora, Mexico. Received 01/06/1994.

PI 593574. Capsicum annuum L.
Cultivated. 10696; GN84170-12.

PI 593575. Capsicum annuum L.
Cultivated. 10705; GN84170-15.

PI 593576. Capsicum annuum L.
Cultivated. 10708; GN84170-16.

PI 593577. Capsicum annuum L.
Cultivated. 10709; GN84170-14.
PI 593578. Capsicum annuum L.
Cultivated. 10710; GN84170-15.

PI 593579. Capsicum annuum L.
Cultivated. 10711; GN84170-19.

The following were donated by Paul W. Bosland, New Mexico State University,
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New
Mexico 88003, United States. Received 01/06/1994.

PI 593580. Capsicum annuum L.
Cultivated. 10718; Sanam.

PI 593581. Capsicum annuum L.
Cultivated. 10726; Ghotki.

The following were donated by Paul W. Bosland, New Mexico State University,
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New
Mexico 88003, United States; D. E. Marshall, USDA, ARS, Agricultural
Engineering Department, Michigan State University, East Lansing, Michigan,
United States. Received 01/06/1994.

PI 593582. Capsicum annuum L.
Cultivated. 10738.

PI 593583. Capsicum annuum L.
Cultivated. 10739; DM #1.

PI 593584. Capsicum annuum L.
Cultivated. 10746; DM #6.

PI 593585. Capsicum annuum L.
Cultivated. 10749; DM #T.

The following were donated by Paul W. Bosland, New Mexico State University,
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New
Mexico 88003, United States; Everardo Zamora, Sonora University, Hermosillo,
Sonora, Mexico. Received 01/06/1994.

PI 593586. Capsicum annuum L.
Cultivated. 10750; Chiletépin.

The following were donated by Paul W. Bosland, New Mexico State University,
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New
Mexico 88003, United States; M.M. Gonzalez, Sector Publico Agro. Y De
Alimentacion, Inst. De Ciencia Y Tecnologia Agricolas, Avenida Reforma 8-60,
Zona 9 Edificio, Guatemala; Enio Aguilar, 23 Av. 30-36, Zona 5, Guatemala
City, Guatemala, Guatemala. Received 01/06/1994.

PI 593587. Capsicum annuum L.
Cultivated. 10756; #640.
PI 593588. Capsicum annuum L.
Cultivated. 10758; #1146.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Everardo Zamora, Sonora University, Hermosillo, Sonora, Mexico. Received 01/06/1994.

PI 593589. Capsicum annuum L.
Cultivated. 10759; GN84170-17.

PI 593590. Capsicum annuum L.
Cultivated. 10775; GN84170-19.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; D. E. Marshall, USDA, ARS, Agricultural Engineering Department, Michigan State University, East Lansing, Michigan, United States. Received 01/06/1994.

PI 593591. Capsicum annuum L.
Cultivated. 10779; DM#F.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Everardo Zamora, Sonora University, Hermosillo, Sonora, Mexico. Received 01/06/1994.

PI 593592. Capsicum annuum L.
Cultivated. 10820; Especias Aviles.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593593. Capsicum annuum L.
Cultivated. 10853; Chiletepin.

PI 593594. Capsicum annuum L.
Cultivated. 10854; Chiletepin.

PI 593595. Capsicum annuum L.
Cultivated. 10857; BG-1.

PI 593596. Capsicum annuum L.
Cultivated. 10859; Indonesian Selection.

PI 593597. Capsicum annuum L.
Cultivated. 10860; S20-1.
PI 593598. *Capsicum annuum* L.  
Cultivated. 10885; Venezuela.

PI 593599. *Capsicum annuum* L.  
Cultivated. 10934; Perla.

PI 593600. *Capsicum annuum* L.  
Cultivated. 10937; Zlata.

PI 593601. *Capsicum annuum* L.  
Cultivated. 10948; Hosszutaltos.

The following were donated by Paul W. Bosland, New Mexico State University,  
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New  
Mexico 88003, United States; P.G. Smith, University of California, Department  
of Vegetable Crops, Davis, California 95616, United States. Received 01/06/1994.

PI 593602. *Capsicum annuum* L.  
Cultivated. 10965; SA396.

The following were donated by Paul W. Bosland, New Mexico State University,  
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New  
Mexico 88003, United States. Received 01/06/1994.

PI 593603. *Capsicum annuum* L.  
Cultivated. 10966; BG25.

PI 593604. *Capsicum annuum* L.  
Cultivated. 10978; Tachi-Yatsubusa.

PI 593605. *Capsicum baccatum* L.  
Cultivated. 20042; BG26.

PI 593606. *Capsicum baccatum* L.  
Cultivated. 20051; CATIE7414.

The following were donated by Paul W. Bosland, New Mexico State University,  
Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New  
Mexico 88003, United States; P.G. Smith, University of California, Department  
of Vegetable Crops, Davis, California 95616, United States. Received 01/06/1994.

PI 593607. *Capsicum chinense* Jacq.  
Cultivated. 30006; SA246.

PI 593608. *Capsicum chinense* Jacq.  
Cultivated. 30052; ACC#1634.

The following were donated by Michael Dessert, Dessert's Cal-Seed Inc., P. O.  
Box 3485, El Centro, California 92244-3485, United States; Paul W. Bosland,
PI 593609. Capsicum chinense Jacq.
Cultivated. 30053.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; D. DeWitt, P. O. Box 4980, Albuquerque, New Mexico 87196, United States. Received 01/06/1994.

PI 593610. Capsicum chinense Jacq.
Cultivated. 30056.

PI 593611. Capsicum chinense Jacq.
Cultivated. 30057.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/06/1994.

PI 593612. Capsicum chinense Jacq.
Cultivated. 30062; CATIE 5473.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; D. DeWitt, P. O. Box 4980, Albuquerque, New Mexico 87196, United States. Received 01/06/1994.

PI 593613. Capsicum frutescens L.
Cultivated. 40019; Bahama Hot.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; East West Seed Company Limited, P.O. Box 3, Bang Bua Thong, Nonthaburi, Thailand. Received 01/06/1994.

PI 593614. Capsicum frutescens L.
Cultivated. 40033; Siling Labuyo.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Javier Salinas, C.P.A.E. Bajio, Km. 6 Carreterra Celaya Sn. Miguel de Allende, A.P.D.O. Postal No. 112, Celaya, Guanajuato, Mexico. Received 01/06/1994.

PI 593615. Capsicum frutescens L.
Cultivated. 40034; BG3324.
The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; Enio Aguilar, 23 Av. 30-36, Zona 5, Guatemala City, Guatemala, Guatemala. Received 01/06/1994.

PI 593616. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80018; #501.

PI 593617. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80020; #1168.

PI 593618. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80035; Chile de caballo.

PI 593619. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80036; Chile de caballo.

PI 593620. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80037; Chile de caballo.

PI 593621. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80038; Chile de caballo.

PI 593622. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80039; Chile de caballo.

PI 593623. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80040; Chile de caballo.

PI 593624. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80041; Chile de caballo.

PI 593625. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80042; Chile de caballo.

PI 593626. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80043; Chile de caballo.

PI 593627. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80044; Chile de caballo.

PI 593628. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80045; Chile de caballo.

PI 593629. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80046; Chile de caballo.

PI 593630. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80047; Chile de caballo.

PI 593631. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80048; Chile de caballo.

PI 593632. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. 80049; Chile de caballo.
PI 593633. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. 80050; Chile de caballo.

PI 593634. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. 80051; Chile de caballo.

PI 593635. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. 80052; Chile de caballo.

PI 593636. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. 80053; Chile de caballo.

PI 593637. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. 80054; Chile de caballo.

PI 593638. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. 80055; Chile de caballo.

PI 593639. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. 80056; Chile de caballo.

PI 593640. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. 80057; Chile de caballo.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; M.M. Gonzalez, Sector Publico Agro. Y De Alimentacion, Inst. De Ciencia Y Tecnologia Agricolas, Avenida Reforma 8-60, Zona 9 Edificio, Guatemala. Received 01/06/1994.

PI 593641. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. Col #641; 80071.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; M.M. Gonzalez, Sector Publico Agro. Y De Alimentacion, Inst. De Ciencia Y Tecnologia Agricolas, Avenida Reforma 8-60, Zona 9, Edificio, Guatemala. Received 01/06/1994.

PI 593642. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. Col #801; 80072.

The following were donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States; M.M. Gonzalez, Sector Publico Agro. Y De Alimentacion, Inst. De Ciencia Y Tecnologia Agricolas, Avenida Reforma 8-60, Zona 9 Edificio, Guatemala. Received 01/06/1994.

PI 593643. *Capsicum pubescens* Ruiz Lopez & Pavon
Cultivated. Col #1167; 80073.
PI 593644. Capsicum pubescens Ruiz Lopez & Pavon
Cultivated. Col #1168; 80074.

The following were developed by P. Stephen Baenziger, University of Nebraska, Department of Agronomy, 330 Keim Hall, Lincoln, Nebraska 68583-0915, United States. Received 02/28/1996.

PI 593645. Triticum aestivum L., nom. cons.

PI 593646. Triticum aestivum L., nom. cons.
Breeding. Pureline. NE91651; NSGC 6124. Pedigree - NE82671//Centurk78*2/Lovrin 13. Hard red winter wheat. Medium tall with a short coleoptile, good winter survival, and average straw strength. Moderately resistant to stem rust (contains Sr17, which is no longer effective, and other unnamed genes), moderately susceptible to leaf rust and barley yellow dwarf virus, and is susceptible to soilborne mosaic virus and Septoria spp. Performs well under dryland conditions in the western Great Plains, but has insufficient disease resistance to be grown in higher rainfall areas where diseases are more prevalent. Overall milling and baking quality average for Nebraska released cultivars.

The following were developed by J.P. Ross, USDA, ARS, North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695, United States. Donated by North Carolina State University, North Carolina Agr. Exp. Sta., Raleigh, North Carolina, United States. Received 07/06/1993.

PI 593647. Glycine max (L.) Merr.

PI 593648. Glycine max (L.) Merr.

The following were collected by J.L. Stulb, New Orleans, Louisiana, United States. Donated by USDA, ARS, Alabama Agr. Exp. Sta., Alabama, United States. Received 1963.

PI 593649. Gossypium hirsutum L.
PI 593650. *Medicago sativa* L. *ssp. sativa*

Cultivar. Population. "MULTISTAR". CV-193. Pedigree - 146-clone synthetic. Germplasm sources include 5% *M. falcata*, 5% Ladak, 26% *M. varia*, 4% Turkistan, 53% Flemish, 7% Chilean. Fall dormancy group 3. Flower color 95% purple, 5% white, trace cream, yellow and white. Highly resistant to anthracnose (Race 1), bacterial wilt, fusarium wilt, and phytophthora root rot. Resistant to verticillium wilt and stem nematode. Approx. 54% of plants express the multifoliate trait in the autumn regrowth.

PI 593651. *Lolium multiflorum* Lam.

Cultivar. Population. "SURREY"; NSL 246798. CV-180; PVP 8900300. Pedigree - Selection from Marshall ryegrass. Late-maturing, diploid ryegrass. Highly resistant to crown rust. Resistant to helminthosporium leaf spot. Adapted to Florida and the southeastern U.S. Yields equal to or exceed Marshall. Grows well in northern portions of ryegrass belt expressing good cold tolerance. Principal use for forage as a cool-season pasture plant grown on both summer perennial grass pastures and prepared seed beds. Can be used in lawns and for ground cover in parks, recreational areas and highway right-of-way.


Cultivar. Population. "ELKTON"; CO-256; 9019690; T-19690; W6 17729. Collected 09/01/1979 in Oregon, United States. Latitude 43 deg. 43' N. Longitude 123 deg. 29' W. Elevation 121 m. Native stand near Highway 138 approximately 11.5 miles northwest of Sutherlin, Douglas County, Oregon. Sec. 24, T 24S, R 7W. Major land resource area: A2. Pedigree - Ecotype originating from a wild stand. Not intentionally bred or hybridized, but selected in comparison to 128 populations from OR, WA and other states, in a nonreplicated study, and 4 years in solid stands (swards) at several sites in WA and OR. Cool season perennial bunchgrass. Selected for agronomic performance, earlier phenological development (spring recovery and maturity) and uniformity. Good vigor, seed yield (mean 514 lbs/ac, range 380-623), and stand longevity compared to Arlington and other populations. Matures seed 7-14 days earlier and initiates growth 15-30 days sooner in spring than Arlington. Foliage grass green and lacks glaucous appearance. Mean culm height 118 cm (range 95-140). Seed weight 140,000 seeds/lb, average of 3 lots. Stems intermediate in
coarseness, often bent at base. Lower, younger sheaths are purple tinged at base, pubescent. Leaf blades nearly glabrous, flat, lax, and width 6-14 mm. Spikes erect, length 8-20 cm. Lemmas glabous to scabrid-pubescent.

The following were donated by C.E. Caviness, Arkansas Agr. Exp. Sta., University of Arkansas, 115 Plant Science Building, Fayetteville, Arkansas 72701, United States. Received 1992.

PI 593653. Glycine max (L.) Merr.
Cultivated. Inbred. "Crowley"; SY 920001.

The following were donated by R.L. Cooper, USDA-ARS, Ohio State University, 1680 Madison, Wooster, Ohio 44691-4096, United States. Received 1995.

PI 593654. Glycine max (L.) Merr.

The following were developed by Berlin D. Nelson, North Dakota State University, Dept. of Plant Pathology, Fargo, North Dakota 58105, United States; T.C. Helms, North Dakota State University, Crop & Weed Science Department, 333 Walster Hall, Fargo, North Dakota 58105-5051, United States; K.C. Chang, North Dakota State University, Dept. of Food and Nutrition, Gargo, North Dakota 58105, United States. Received 03/04/1995.

PI 593655. Glycine max (L.) Merr.
Cultivar. "Danatto"; ND91-2330. CV-353; PVP 9600241. Pedigree - Natto King 86 x unknown. Small seeded, developed for the natto specialty food market. Flower purple, grey pubescence, tan pod color, shiny seed coat, yellow hilum, yellow seed coat, and indeterminate growth habit. Mid-maturity group O. Susceptible to lodging and is not iron efficient on high pH soils.

The following were developed by G.L.C. Musa, Northwest Agricultural Research Center, (CIANO-INIFAP-SAGAR), Yaqui Valley Agric. Exp. Stn., Ciudad Obregon, Sonora CP 85000, Mexico; Sergio Munoz-Valenzuela, Northwest Agricultural Research Center, (CIANO-INIFAP-SAGAR), N.E. Borlaug KM 12, Ciudad Obregon, Sonora, Mexico; F. Ochoa-Burgos, Northwest Agricultural Research Center, (CIANO-INIFAP-SAGAR), Apartado Postal 515, Ciudad Obregon, Sonora, Mexico. Received 02/07/1996.

PI 593656. Sesamum indicum L.
Cultivar. "RIO YAQUI 93". CV-7. Pedigree - Single plant selection from Texas 77. Begins flowering about 52 d after planting and reaches physiological maturity at 105 d. Mature plant average height 149cm. Height of first capsules 70cm. Seed white stained and averaging 3.0mm long and 1.9mm wide. Seed weight averages 2.8g 1000-1 and test weight 59.6kg HL-1. Seed has average of 451g kg-1 oil, 215g kg-1 protein and 89g kg-1 carbohydrates. Fatty acid balance of oil 369g kg-1 oleic acid, 456g kg-1 linoleic acid, 103g kg-1 palmitic acid, 73g kg-1 stearic acid, with an iodine number of 114g.
PI 593657. Nicotiana tabacum L.
Cultivar. "CU 263". CV-112; PVP 9700016. Pedigree - SC 72/TI 1112/2* Speight G-28. First insect resistant tobacco cultivar released in the U.S. Moderate resistance to tobacco budworm (Heliothis virescens). Resistance is a type of antibiosis, and budworm larval growth and survival are reduced. When budworm damage is visually rated, there is approx. 50% less damage than on NC 2326 or NC 95. Days to flower averages 68 after transplanting. Normally topped at height of 105 cm, and produces an average of 19.5 leaves per plant of medium length and width. Good yield and quality characteristics. Cured leaf predominantly orange in color, medium bodied, and smooth to medium textured. Met all standards for chemical content, smoke flavor, filling value, and usability for a tobacco cultivar.

PI 593658. Triticum aestivum L., nom. cons.


The following were developed by A.W. Johnson, Pee Dee Research and Education Center, Clemson University, Florence, South Carolina 29501-9603, United States; South Carolina Agricultural Experiment Station, South Carolina, United States. Received 02/12/1996.
PI 593660. Beta vulgaris L.
Breeding. C79-1; R479(Sp). GP-171. Pedigree - C37/Rz (Holly source).
Near isoline of C37. Resistant to rhizomania (BNYVV). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593661. Beta vulgaris L.
Breeding. C79-2; R424. GP-172. Pedigree - C37/WB41 (B. maritima accession from Denmark). Near isoline of C37. Resistant to rhizomania (BNYVV). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593662. Beta vulgaris L.
Breeding. C79-3; R425. GP-173. Pedigree - C37/WB42 (B. maritima accession from Denmark). Near isoline of C37. Resistant to rhizomania (BNYVV). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593663. Beta vulgaris L.
Breeding. C79-4; R428. GP-174. Pedigree - C37/PI 206407 (a sugarbeet accession from Turkey. However, the only plant with resistance had chard-like traits). Near isoline of C37. Resistant to rhizomania (BNYVV). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593664. Beta vulgaris L.
Breeding. C79-5; R432. GP-175. Pedigree - C37/Rhizomania resistant from a weed beet line from Italy. Near isoline of C37. Resistant to rhizomania (BNYVV). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593665. Beta vulgaris L.
Breeding. C79-6; R434. GP-176. Pedigree - C37/Rhizomania resistant R05 (sugarbeet line from Italy). Near isoline of C37. Resistant to rhizomania (BNYVV). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593666. Beta vulgaris L.
Breeding. C79-7; R435. GP-177. Pedigree - C37/Rhizomania resistant Rima, a SES commercial hybrid with male sterile cytoplasm. Near isoline of C37. Resistant to rhizomania (BNYVV). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593667. Beta vulgaris L.

PI 593668. Beta vulgaris L.

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Breeding. C79-9; R437R2. GP-179. Pedigree - C37/Rhizomania resistant WB151 (B. maritima accession from Denmark). Near isoline of C37. Resistant to rhizomania (BNYW). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593669. Beta vulgaris L.
Breeding. C79-10; R441. GP-180. Pedigree - C37/Rhizomania resistance WB169 (B. maritima from Po River Valley, Italy). Near isoline of C37. Resistant to rhizomania (BNYW). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593670. Beta vulgaris L.
Breeding. C79-11; R442. GP-181. Pedigree - C37/Rhizomania resistant WB258 (B. maritima from Po River Valley, Italy). Near isoline of C37. Resistant to rhizomania (BNYW). Resistance segregates. C37, the recurrent parent, is multigerm, self-sterile with resistance to bolting, curly top, and virus yellows.

PI 593671. Beta vulgaris L.
Breeding. C78; R578. GP-182. Pedigree - Near-isoline of C46/2 with resistance to rhizomania. Multigerm, self-sterile, open-pollinated line with resistance to rhizomania (Rz), curly top, erwinia, and bolting. Moderate resistance or tolerance to virus yellows, powdery mildew. Similar to C78/2.

PI 593672. Beta vulgaris L.
Breeding. C80; R480-. GP-183. Pedigree - Near-isoline of C54 with resistance to rhizomania. Multigerm, self-sterile, open-pollinated line with resistance to rhizomania. Developed by compositing selected half-sibs from progeny tests for CA and per se performance for sugar yield. Similar to C80NB.

PI 593673. Beta vulgaris L.
Breeding. C80NB; R480NB. Pedigree - Near-isoline of C54 with resistance to rhizomania selected by mass selection for resistance to rhizomania, bolting, virus yellows, and Erwinia. Multigerm, self-sterile, open pollinated line with combined resistance to rhizomania, bolting, and Erwinia. Moderate resistance or tolerance to powdery mildew and virus yellows.

PI 593674. Beta vulgaris L.
Breeding. C80-45; R480-45(Iso). Pedigree - Increase of one half-sib family. Multigerm, self-sterile, open pollinated line with resistance to rhizomania. Increased from one half-sib family selected for CA and per se performance for sugar yield and combined disease resistance. Similar to C80.

PI 593675. Beta vulgaris L.
Breeding. C82; R482NB. GP-184. Pedigree - Near-isoline of C31 with resistance to rhizomania. Multigerm, self-sterile, open pollinated line with resistance to rhizomania, bolting, and virus yellows. Reselection and recombination of lines similar to C76-31 and C76-89.
PI 593676. *Beta vulgaris* L.  
Breeding. C608; N457. Pedigree - BC3 F2(C918*4 x B883) where B883 is source of BCN resistance and C918 is rhizomania resistant population. Multigerm, self-fertile population that segregates for hypocotyl color and genetic ms. Segregates for resistance to rhizomania (BNYW) and cyst nematode. Beet cyst nematode (BCN) resistance traces to Beta procumbens. Source of combined resistance from which to develop homozygous BCN resistant breeding lines.

PI 593677. *Beta vulgaris* L.  
Breeding. C609; N461. Pedigree - BC3F2(C918*4 x B883) where B883 is source of BCN resistance and C918 is rhizomania resistant population. Multigerm, self-fertile population that segregates for hypocotyl color and genetic ms. Segregates for resistance to rhizomania (BNYW) and beet cyst nematode (BCN). BCN resistance traces to Beta procumbens. Source of combined resistance to select homozygous BCN resistant breeding lines.

The following were developed by E.L. Turcotte, USDA-ARS, Maricopa Agricultural Research Station, 37860 W. Smith-Enke Road, Maricopa, Arizona 85239, United States; Richard Percy, USDA, ARS, Maricopa Agricultural Research Ctr., 37860 W. Smith-Enke Rd., Maricopa, Arizona 85339, United States. Received 02/22/1996.

PI 593678. *Gossypium barbadense* L.  
Breeding. P70. GP-629. Pedigree - 6508-39-1-16 / 6807-26-10-3. Agronomically elite line. In 18 tests conducted over 2 years, averages 1160 kg ha-1 of fiber. Fiber properties averaged 35.0 mm for 2.5% staple length, 45.0% for fiber uniformity, 30.7 g tex-1 for T1 fiber strength, and 3.54 for micronaire. In 15 tests conducted over 2 years, averaged 88.5 cm in height.

PI 593679. *Gossypium barbadense* L.  
Breeding. P71. GP-630. Pedigree - 7301-5-4-1 / 7306-21-2-2. In 18 tests conducted over 2 years, averaged 1049 kg ha-1 in fiber yield. Fiber properties averaged 35 mm for 2.5% staple length, 48% for fiber length uniformity, 34.8 g tex-1 for T1 fiber strength, and 3.57 for micronaire. Fiber whiter than typical for American Pima cottons, having a reflectance of 73.7 Rd. In 18 tests conducted over 2 years, averaged 102 cm in height.

PI 593680. *Gossypium barbadense* L.  
Breeding. P72. GP-631. Pedigree - 6614-91-1-1 / 7402-126-1-1. In 8 tests conducted over 8 locations, averaged 1098 kg ha-1 in fiber yield. Fiber properties averaged 35 mm for 2.5% staple length, 50% for fiber length uniformity, 35.3 g tex-1 for T1 fiber strength, and 3.54 for micronaire. Fiber whiter than typical for American Pima cotton, having a reflectance of 75.0 Rd. Plant height averaged 87.9 cm over 8 tests at 8 locations.

PI 593681. *Gossypium barbadense* L.  
Breeding. P73. GP-632. Pedigree - 6614-91-1-1 / 7301-5-4-5. In 45 tests conducted over 5 years, averaged 1192 kg ha-1 in fiber yield. Fiber properties averaged 34.5 mm for 2.5% staple length, 49% for fiber length uniformity, 34.7 g tex-1 for T1 fiber strength, and 4.09 for micronaire. Plant height averaged 94.4 cm over 45 tests and 5 years.
PI 593682. Gossypium barbadense L.
Breeding. P74. GP-633. Pedigree - 7402-126-1-1 / 7406-109-7-6. In 26 tests conducted over 3 years, averaged 1090 kg ha⁻¹ in fiber yield. Fiber properties averaged 34.8 mm for 2.5% staple length, 48% for fiber length uniformity, 33.7 g tex⁻¹ for T₁ fiber strength, and 4.28 for micronaire. Plant height averaged 94 cm in 26 tests conducted over 3 years.

PI 593683. Gossypium barbadense L.
Breeding. P75. GP-634. Pedigree - 7202-72-11-10 / 7301-5-4-5. In 26 tests conducted over 3 years, averaged 1212 kg ha⁻¹ in fiber yield. Fiber properties averaged 34.5 mm for 2.5% staple length, 49% for fiber length uniformity, 32.7 g tex⁻¹ for T₁ fiber strength, and 4.21 for micronaire. Plant height averaged 94 cm in 26 tests conducted over 3 years. Although a good yield performing line at higher elevations, lacks the heat tolerance required for superior performance in the low elevation desert locations of the Southwest.

PI 593684. Gossypium barbadense L.
Breeding. P76. GP-635. Pedigree - 7404-531-506-506 / 7202-50-5-7-1. In 26 tests conducted over 3 years, averaged 1236 kg ha⁻¹ in fiber yield. Fiber properties averaged 34.8 mm for 2.5% staple length, 48% for fiber length uniformity, 33.3 g tex⁻¹ for T₁ fiber strength, and 4.34 for micronaire. Plant height averaged 85.5 cm.

PI 593685. Gossypium barbadense L.
Breeding. P77. GP-636. Pedigree - 7501-36-6-8 / 7607-4-7-3. In 21 tests conducted over 3 years, averaged 1316 kg ha⁻¹ in fiber yield. Fiber properties averaged 33.8 mm for 2.5% staple length, 48% for fiber length uniformity, 31.4 g tex⁻¹ for T₁ fiber strength and 4.26 for micronaire. Plant height averaged 78.7 cm in 14 tests over 3 years. Short statured and early maturing in comparisons with the industry standard PS-7.

PI 593686. Gossypium barbadense L.
Breeding. P78. GP-637. Pedigree - 7503-58-1-2 / 7607-4-7-3. Averaged 1484 kg ha⁻¹ fiber yield in 2 tests in one year. Fiber properties averaged 35 mm for 2.5% staple length, 49% for fiber length uniformity, 31.6 g tex⁻¹ for T₁ fiber strength, and 4.44 for micronaire. Plant height averaged 137 cm. Fiber strength and micronaire are not acceptable under current industry standards for ELS fiber.

PI 593687. Gossypium barbadense L.
Breeding. P79. GP-638. Pedigree - 7202-50-2-7-3 / 7406-109-7-6. In 8 tests at 8 locations, averaged 1202 kg ha⁻¹ fiber yield. Fiber properties averaged 33.3 mm for 2.5% staple length, 49% for fiber length uniformity, 29.6 g tex⁻¹ for T₁ fiber strength, and 4.40 for micronaire. Plant height averaged 76.2 cm in 8 tests and 8 locations. Fiber strength and micronaire are not acceptable under current industry standards for ELS fiber.

The following were developed by Rollin G. Sears, Kansas State University, Department of Agronomy, Throckmorton Hall, Manhattan, Kansas 66506-5501, United States; John Moffatt, AgriPro Biosciences, P.O. Box 30, Berthoud,
Colorado 80513, United States; T.J. Martin, Kansas State University, Agric. Research Center-Hays, 1232 240th Avenue, Hays, Kansas 67601, United States; T.S. Cox, USDA, ARS, Plant Science and Entomology Research, Department of Agronomy, Manhattan, Kansas 66506-5501, United States; M.D. Witt, Kansas State University, Southwest Res. & Ext. Center, Garden City, Kansas, United States; W.F. Heer, Kansas State University, Kansas Agric. Exp. Station, Dept. of Agronomy, Manhattan, Kansas, United States; S.P. Curran, Kansas State University, Dept. of Agronomy, Manhattan, Kansas, United States; R.K. Bequette, Kansas State University, Dept. of Grain Science & Industry, Manhattan, Kansas 66506, United States; O.K. Chung, USDA-ARS, U.S. Grain Marketing Research Lab, Hard Winter Wheat Quality Lab, Manhattan, Kansas, United States; J.H. Long, Kansas State University Southeast Agric. Res. Center, Box 316, Parsons, Kansas 67357, United States. Received 02/23/1996.

PI 593688. Triticum aestivum L., nom. cons.

The following were developed by David A. Van Sanford, University of Kentucky, Department of Agronomy, Ag. Sci. Ctr. N-106K, Lexington, Kentucky 40546-0091, United States; C.R. Tutt, University of Kentucky, Kentucky Agric. Exp. Station, Princeton, Kentucky, United States; C.S. Swanson, University of Kentucky, Kentucky Agric. Exp. Station, Lexington, Kentucky, United States; W.L. Pearce, Kentucky Agric. Exp. Station, Lexington, Kentucky, United States; L.J. Tomes, Kentucky Agric. Exp. Sta., Dept. of Agronomy, University of Kentucky, Lexington, Kentucky 40546-0091, United States; D.E. Hershman, Kentucky Agric. Exp. Sta., Dept. of Plant Pathology, Univ. of Kentucky, Lexington, Kentucky 40546-0091, United States. Received 02/26/1996.

PI 593689. Triticum aestivum L., nom. cons.

The following were developed by Farman Jodari, Louisiana State University,
PI 593690. Oryza sativa L.
Cultivar. Pureline. "LAFITTE". CV-102. Pedigree - Mercury/Mercury/Koshihikari. Short-stature (99 cm) medium-grain. Moderately resistant to blast (Pyricularia grisea) and sheath blight (Rhizoctonia solani). Good seedling vigor, cold tolerance, ratoon potential, and very good milling quality (average 66-70; % whole grain-total grain after milling). Very early in maturity, averaging 85 days from emergence to 50% heading.

The following were developed by Robert T. Lewellen, USDA, ARS, U.S. Agricultural Research Station, 1639 E. Alisal St., Salinas, California 93905, United States. Received 02/26/1996.

PI 593691. Beta vulgaris L.
Breeding. C913-70; 3913-70. Pedigree - Inc. S1 line from popn-913. Popn-913 is similar to C918. Multigerm, green hypocotyl (rr), self-fertile (Sf), line that segregates for resistance to rhizomania (BNYVV). Resistant to bolting and Erwinia. Moderate resistance to virus yellows, curly top, and powdery mildew. Narrowly based. Selected from S1 progeny test and experimental hybrids for resistance to diseases, %S, and sugar yield combining ability.

PI 593692. Beta vulgaris L.
Breeding. CR09; R409. Pedigree - BC1F2(CTR, Rz*2 x CR) where CTR, Rz = curly top, rhizomania resistant line and CR = Cercospora leaf spot resistant line R05 from Italy. Multigerm line that segregates for genetic ms (Aa), self-fertility (Sf), hypocotyl color, and resistance to rhizomania (Rz). Combines resistance to Cercospora and rhizomania in a line with adaptation to the western USA. Derived from Italian sugarbeet line R05. R05 was an accession into the Salinas breeding program from E. Biancardi's CR program at Rovigo, Italy.

PI 593693. Beta vulgaris L.
Breeding. CR10; R410. Pedigree - BC1F2(CTR, Rz*2 x CR) where CTR, Rz = curly top, rhizomania resistant line and CR = Cercospora leaf spot resistant line R06 from Italy. Multigerm line that segregates for genetic ms (Aa), self-fertility (Sf), hypocotyl color (mostly green, rr), and resistance to rhizomania (Rz). Combines resistance to Cercospora leaf spot and rhizomania in a line with adaptation to the western USA. Derived from Italian sugarbeet line R06. R06 was a green hypocotyl, CR, moderately rhizomania resistant accession from E. Biancardi's CR program, Rovigo, Italy.
PI 593694. Beta vulgaris L.
Breeding. C51; R522(Sp). Pedigree - Recombination of improved lines of C50. C50 = sugarbeet x Beta maritima accessions. Improved version of C50 released in 1988. Developed and tested as line R22. Four to six cycles of mass selection were made for beet and root conformation and yield and resistance to rhizomania and virus yellows. Eight sublines were reselected for resistance to rhizomania and for % sucrose and were recombined to form a single improved population.

PI 593695. Beta vulgaris L.
Breeding. C78/2; R578 (Sp). Pedigree - Rz near-isoline of C46/2 and is an improved line similar to C78. Advanced multigerm, self-sterile breeding line that combines multiple disease resistance and high productivity for sugar yield combining ability. Segregates for resistance to rhizomania (Rz) and has moderate resistance or tolerance to bolting, curly top, virus yellows, Erwinia, powdery mildew, and downy mildew.

PI 593696. Beta vulgaris L.

PI 593697. Beta vulgaris L.

PI 593698. Beta vulgaris L.

PI 593699. Beta vulgaris L.

PI 593700. Beta vulgaris L.
Breeding. C890; 3890. Pedigree - BC2F2(C790mmaa*3 x 9876) where 9876 was a monogerm source of resistance to rhizomania (Rz). Monogerm, self-fertile population similar to C790 that segregates for genetic male sterility and resistance to rhizomania (Rz). Should be useful as a source population for developing monogerm, O-type, rhizomania resistant breeding and parental lines with good sugar yield combining ability.

PI 593701. Beta vulgaris L.
Breeding. C890-1; 5890(Sp). Pedigree - Near-isoline of C790 that segregates for the Rz (Holly) source of resistance. Synthesized from selected S1 lines. The similar lines C890-1 through C890-10/11 are
populations that segregate for resistance to rhizomania (BNYVV). The common background is self-fertile, monogerm, O-type population C790. The C890-# lines segregate for monogerm, O-type, and genetic male sterility and have broad genetic variability. Each 890-# line is a source of resistance to BNYVV that was derived from a different and unique source. The allelism among these sources of resistance is not known.

**PI 593702. Beta vulgaris L.**
Breeding. C890-2/3; 5812(Iso). Pedigree - Backcrosses into C790 of the factor(s) for resistance to rhizomania from WB41 and WB42 (Beta maritima accessions from Denmark). F2BC3[C790*2 x (C37*2 x WB41, WB42)]. The similar lines C890-1 through C890-10/11 are populations that segregate for resistance to rhizomania (BNYVV). The common background is self-fertile, monogerm, O-type population C790. The C890-# lines segregate for monogerm, O-type, and genetic male sterility and have broad genetic variability. Each 890-# line is a source of resistance to BNYVV that was derived from a different and unique source. The allelism among these sources of resistance is not known.

**PI 593703. Beta vulgaris L.**
Breeding. C890-4; 5814(Iso). Pedigree - Backcrosses into C790 of the factor for resistance to rhizomania from PI206407 (resistance from a chard-like plant within Turkish sugarbeet accession). BC6F2[C790*2 x (C37*5 x PI206407)]. The similar lines C890-1 through C890-10/11 are populations that segregate for resistance to rhizomania (BNYVV). The common background is self-fertile, monogerm, O-type population C790. The C890-# lines segregate for monogerm, O-type, and genetic male sterility and have broad genetic variability. Each 890-# line is a source of resistance to BNYVV that was derived from a different and unique source. The allelism among these sources of resistance is not known.

**PI 593704. Beta vulgaris L.**
Breeding. C890-5; 5815(Iso). Pedigree - Backcrosses into C790 of the factor for resistance to rhizomania from R04, an Italian weed beet accession. BC3F2[C790*2 x (C37*2 x R04)]. The similar lines C890-1 through C890-10/11 are populations that segregate for resistance to rhizomania (BNYVV). The common background is self-fertile, monogerm, O-type population C790. The C890-# lines segregate for monogerm, O-type, and genetic male sterility and have broad genetic variability. Each 890-# line is a source of resistance to BNYVV that was derived from a different and unique source. The allelism among these sources of resistance is not known.

**PI 593705. Beta vulgaris L.**
Breeding. C890-6/7; 5817(Iso). Pedigree - Backcrosses into C790 of the factor for resistance to rhizomania from Rima's and R04, an Italian sugarbeet line. BC1F2[C790 x (Rima-CMS, R04 x C37)]. The similar lines C890-1 through C890-10/11 are populations that segregate for resistance to rhizomania (BNYVV). The common background is self-fertile, monogerm, O-type population C790. The C890-# lines segregate for monogerm, O-type, and genetic male sterility and have broad genetic variability. Each 890-# line is a source of resistance to BNYVV that was derived from a different and unique source. The allelism among these sources of resistance is not known.
PI 593706. Beta vulgaris L.  
Breeding. C890-8; 5818 (Iso). Pedigree - Backcrosses into C790 of the factor(s) for resistance to rhizomania from C50, a composite cross between C54 and B. maritima accessions. BC3F2{C790*2 x (C37 x (C54 x B. maritima))}. The similar lines C890-1 through C890-10/11 are populations that segregate for resistance to rhizomania (BNYYV). The common background is self-fertile, monogerm, O-type population C790. The C890-# lines segregate for monogerm, O-type, and genetic male sterility and have broad genetic variability. Each 890-# line is a source of resistance to BNYVV that was derived from a different and unique source. The allelism among these sources of resistance is not known.

PI 593707. Beta vulgaris L.  
Breeding. C890-9; 5819 (Iso). Pedigree - Backcrosses into C790 of the factor for resistance to rhizomania from WB 151, Beta maritima from Denmark. BC5F2[C790*2 x (C37*4 x WB151)]. The similar lines C890-1 through C890-10/11 are populations that segregate for resistance to rhizomania (BNYYV). The common background is self-fertile, monogerm, O-type population C790. The C890-# lines segregate for monogerm, O-type, and genetic male sterility and have broad genetic variability. Each 890-# line is a source of resistance to BNYVV that was derived from a different and unique source. The allelism among these sources of resistance is not known.

PI 593708. Beta vulgaris L.  
Breeding. C890-10/11; 5820 (Iso). Pedigree - Backcrosses into C790 of the factor(s) for resistance to rhizomania from WB 159 and WB 258, Beta maritima lines from Po Valley, Italy. BC4F2[C790 x (C37*4 x WB159, WB258)]. The similar lines C890-1 through C890-10/11 are populations that segregate for resistance to rhizomania (BNYYV). The common background is self-fertile, monogerm, O-type population C790. The C890-# lines segregate for monogerm, O-type, and genetic male sterility and have broad genetic variability. Each 890-# line is a source of resistance to BNYVV that was derived from a different and unique source. The allelism among these sources of resistance is not known.

The following were collected by Nigel Maxted, Univ. of Southampton - Dept. of Biology, Med. & Biological Science Building, Bassett Crescent East, Southampton, England S09 3TU, United Kingdom. Donated by Laszlo Holly, Int. Center for Agricultural Research in the Dry Areas, Germplasm Resources Unit, P.O. Box 5466, Aleppo, Syria. Received 10/17/1990.

PI 593709. Cicer reticulatum Ladiz.  
Wild. 5667; ILWC 242; W6 6616; W6 10154. Collected 1988 in Turkey. 15km N Urfa, W Urfa-Nilvan road, Urfa Province.

The following were collected by Nigel Maxted, Univ. of Southampton - Dept. of Biology, Med. & Biological Science Building, Bassett Crescent East, Southampton, England S09 3TU, United Kingdom; W. Mughlaby. Donated by Laszlo Holly, Int. Center for Agricultural Research in the Dry Areas, Germplasm Resources Unit, P.O. Box 5466, Aleppo, Syria. Received 10/17/1990.

PI 593710. Cicer judaicum Boiss.

**PI 593711. Cicer judaicum** Boiss.

The following were donated by Laszlo Holly, Int. Center for Agricultural Research in the Dry Areas, Germplasm Resources Unit, P.O. Box 5466, Aleppo, Syria. Received 04/03/1992.

**PI 593712. Cicer judaicum** Boiss.
Cultivated. BMV 23-9; ILWC 207; W6 10155.

**PI 593713. Cicer judaicum** Boiss.
Cultivated. BMV 26-1; ILWC 208; W6 10156.

**PI 593714. Cicer judaicum** Boiss.
Cultivated. LR-126; ILWC 210; W6 10157.

**PI 593715. Cicer judaicum** Boiss.
Cultivated. LR-135; ILWC 211; W6 10158.

**PI 593716. Cicer pinnatifidum** Jaub. & Spach
Cultivated. 5119-1; 5119; ILWC 236; W6 10159.

The following were collected by Laszlo Holly, Int. Center for Agricultural Research in the Dry Areas, Germplasm Resources Unit, P.O. Box 5466, Aleppo, Syria. Donated by Int. Center for Agricultural Research in the Dry Areas, P.O. Box 5466, Aleppo, Syria. Received 07/15/1992.

**PI 593717. Cicer judaicum** Boiss.
Wild. LH-241; ILWC 41; W6 10525. Collected in Syria.

The following were donated by R.P.S. Pundir, Int. Crops Res. Inst. for the Semi-Arid Tropics, Genetic Resources Program, Patancheru, Andhra Pradesh 502 324, India. Received 12/31/1991.

**PI 593718. Cicer microphyllum** Benth.
Wild. ICCW 55; NC 61034; W6 14184. Collected in India. Kashmir.

**PI 593719. Cicer microphyllum** Benth.
Wild. ICCW 57; A 1462; W6 14186. Collected in India. Kashmir.

The following were donated by Niagara Parks Commission, School of Horticulture, Niagara Falls, Ontario, Canada. Received 05/24/1985.

**PI 593720. Agastache foeniculum** (Pursh) Kuntze
Cultivated. Index Seminum 70; Ames 4372.
The following were donated by Dorothy Barringer, Wildflowers from Nature's Way, RR 1, Woodburn, Iowa 50276, United States. Received 10/28/1985.

PI 593721. Stachys tenuifolia Willd.
Wild. Ames 4719.

The following were donated by Clifford Jantz, 4115 East Garden Ave., Des Moines, Iowa 50317, United States; Richard W. Pohl, Iowa State University, Botany Department, Bessey Hall, Ames, Iowa 50011, United States. Received 03/06/1986.

PI 593722. Agastache rugosa (Fischer & C. Meyer) Kuntze
Cultivated. Ames 4992.

The following were donated by Michigan State University, W. J. Beal Botanical Garden, 412 Olds Hall, East Lansing, Michigan 48824-1047, United States. Received 03/24/1986.

PI 593723. Agastache rugosa (Fischer & C. Meyer) Kuntze
Cultivated. Index Seminum 311; Ames 5018.

The following were collected by Calvin R. Sperling, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 402, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; H.H. Gecit, Ankara University, Ankara, Ankara, Turkey; D. Eser, Ankara University, Ankara, Ankara, Turkey. Received 10/24/1986.

PI 593724. Thymus kotschyanus Boiss. & Hohen. var. kotschyanus

The following were donated by Jack Alexander, Arnold Arboretum, Jamaica Plain, Massachusetts, United States. Received 12/17/1986.

PI 593725. Elsholtzia stauntoni Benth.
Cultivated. Mint Bush; Ames 7571. Late flowering.

The following were donated by Jardin Botanique de Montreal, 4101 Rue Sherbrooke Est, Montreal, Quebec H1X 2B2, Canada. Received 03/02/1987.

PI 593726. Agastache rugosa (Fischer & C. Meyer) Kuntze
Cultivated. Index Seminum 601; Ames 7722.
PI 593727. **Agastache rugosa** (Fischer & C. Meyer) Kuntze  
Cultivated. Ames 8411. Collected in Quebec, Canada. Pedigree -  
Population originated at the Montreal Botanical Garden.

The following were donated by Index Seminum of the Medical Bot. Garden, Brno,  
South Moravia, Czech Republic. Received 10/05/1988.

PI 593728. **Hyssopus officinalis** L.  
Cultivated. Index Seminum 473; Ames 9984.

The following were donated by Boleslaw Jablonski, Instytut Sadownictwa i  
Kwiatariestwa, ul. Kazimierska nr 2, Pulawy, Poland. Received 03/21/1989.

PI 593729. **Agastache foeniculum** (Pursh) Kuntze  
Cultivated. Ames 10206.

PI 593730. **Agastache rugosa** (Fischer & C. Meyer) Kuntze  
Cultivated. Ames 10207.

The following were collected by E. Sajvarova, Botanical Garden, University of  
Sarrlandes, Saarbrucken, Germany. Donated by Botanical Institute,  
Czechoslovak Academy of Science, Pruhowice, Czech Republic. Received  
03/16/1990.

PI 593731. **Origanum vulgare** L.  
Wild. Index Seminum 341; Ames 13184. Collected in North Moravia, Czech  
Republic. Elevation 500 m. Sumperk - surroundings of the Travna village.

The following were donated by Botanical Gardens, Agricultural University,  
Generaal Foulkesweg 37, Wageningen, Netherlands. Received 01/25/1991.

PI 593732. **Agastache rugosa** (Fischer & C. Meyer) Kuntze  
Cultivated. Index Seminum 116 87BG33501; Ames 14598.

The following were donated by Gert Fortgens, Research Station for  
Horticulture, P.O. Box 118, Boskoop, South Holland 2770 AC, Netherlands.  
Received 03/07/1991.

PI 593733. **Agastache rugosa** (Fischer & C. Meyer) Kuntze  
Cultivated. Ames 14943.

The following were donated by Gert Fortgens, Boomteelt Praktijkonderzoek,  
Research Station for Nursery Stock, Postbus 118, Boskoop, South Holland 2770  

PI 593734. **Agastache rugosa** (Fischer & C. Meyer) Kuntze  
Population originally was from a wild Korean collection.

The following were donated by University of Turku, Botanical Garden, Turku, Turku ja Pori SF 20500, Finland. Received 04/22/1992.

**PI 593735. Agastache rugosa** (Fischer & C. Meyer) Kuntze
Cultivated. Index Seminum 266; Ames 19077.

**PI 593736. Agastache rugosa** (Fischer & C. Meyer) Kuntze
Cultivated. Index Seminum 267; Ames 19078.

The following were donated by Boleslaw Jablonski, Instytut Sadownictwa I Kwiaiarstwa, 24-100 Pulawy ul. Kazimierska nr 2, Pulawy, Poland. Received 01/12/1992.

**PI 593737. Agastache foeniculum** (Pursh) Kuntze
Cultivated. Ames 20121.

The following were collected by Geza Kosa, A Magyar Tudomanyos Akademia Okologiai e, Botanikai Kutatointezetek, Bontanikus D D D D D C Dtanikus Kertj, Vacratot, Hungary. Donated by A Magyar Tudomanyos Akademia Okologiai e, Botanikai Kutatointezetek, Bontanikus D D D D D C Dtanikus Kertj, Vacratot, Hungary. Received 06/21/1994.

**PI 593738. Origanum vulgare** L.
Wild. Index Seminum 335; Ames 22109. Collected 1993 in Yunnan, China. Elevation 2100 m. Collected on Hsi-Shan near Kunming, Yunnan Province. Bush and montane meadows at the clearings of Pinus armandii-Keteleeria evelyni forest on limestone.

The following were collected by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011, United States. Received 09/21/1994.

**PI 593739. Agastache foeniculum** (Pursh) Kuntze

The following were developed by Reed Barker, USDA, ARS, Forage Seed & Cereal Research, 3450 S.W. Campus Way, OSU, Corvallis, Oregon 97331-7102, United States; R.E. Welty, USDA, ARS, National Forage Seed Production Research Center, 3450 SW Campus Way, Corvallis, Oregon 97331-7102, United States. Received 02/27/1996.

**PI 593740. Festuca arundinacea** Schreber
from 6 turf-type cultivars. Two cycles of recurrent selections by inoculating twice on seedlings in a greenhouse and polycrossing selected plants in the field. Resistance to stem rust (Puccinia graminis subsp. graminicola).

PI 593741. Festuca arundinacea Schreber

The following were developed by Stephen Griffith, USDA-ARS, Oregon State University, National Forage Seed Prod. Res. Center, 3450 S.W. Campus Way, Corvallis, Oregon 97331, United States; Gary Banowetz, USDA-ARS, National Forage Seed Production Research Center, 3450 SW Campus Way, Corvallis, Oregon 97331, United States; Reed Barker, USDA, ARS, Forage Seed & Cereal Research, 3450 S.W. Campus Way, OSU, Corvallis, Oregon 97331-7102, United States; G.W. Mueller-Warrant, USDA, ARS, National Forage Seed Production Research Center, 3450 SW Campus Way, Corvallis, Oregon 97331-7102, United States; M.L. Roush, Oregon State University, Forest Sci. Dept., Corvallis, Oregon 97331, United States; B.D. Maxwell, Montana State University, Dept. of Plant & Soil Sci., Bozeman, Montana 59717, United States; S.R. Radosevich, Oregon State University, Forest Sci. Dept., Corvallis, Oregon 97331, United States. Received 02/27/1996.

PI 593742. Lolium multiflorum Lam.
Breeding. Population. ORARHR-G93. GP-72. Pedigree - Plants from a wheat production field near Salem, OR were crossed with several plants each from Gulf and Marshall, followed by three backcrosses to plants from Gulf and Marshall as the maternal recurrent parents. Populations had survived several treatments of diclofop-methyl to control annual grasses. Source plants were crossed and backcrossed three times to plants from the cultivars Gulf and Marshall to incorporate tolerance to the herbicide into common genetic backgrounds.

PI 593743. Lolium multiflorum Lam.
Breeding. Population. ORARHR-M93. GP-73. Pedigree - Plants from a wheat production field near Salem, OR were crossed with several plants each from Gulf and Marshall, followed by three backcrosses to plants from Gulf and Marshall as the maternal recurrent parents. Population had survived several treatments of diclofop-methyl to control annual grasses. Source plants were crossed and backcrossed three times to plants from the cultivars Gulf and Marshall to incorporate tolerance to the herbicide into common genetic backgrounds.

The following were donated by Manee Nikornpun, Chiang Mai University, Thailand. Received 12/10/1992.

PI 593744. Solanum melongena L.
Uncertain. 51A; Grif 1280.

PI 593745. Solanum melongena L.
Uncertain. 51B; Grif 1281.

PI 593746. Solanum melongena L.
Uncertain. 54; Grif 1284.

PI 593747. Solanum melongena L.
Uncertain. 55; Grif 1285.

PI 593748. Solanum melongena L.
Uncertain. 56A; Grif 1286.

PI 593749. Solanum melongena L.
Uncertain. 56B; Grif 1287.

PI 593750. Solanum melongena L.
Uncertain. 57A; Grif 1288.

PI 593751. Solanum melongena L.
Uncertain. 57B; Grif 1289.

PI 593752. Solanum melongena L.
Uncertain. 58B; Grif 1291.

PI 593753. Solanum melongena L.
Uncertain. 61A; Grif 1292.

PI 593754. Solanum melongena L.
Uncertain. 61C; Grif 1293.

PI 593755. Solanum melongena L.
Uncertain. 65/1-0; Grif 1298.

PI 593756. Solanum melongena L.
Uncertain. 65/2A; Grif 1299.

PI 593757. Solanum melongena L.
Uncertain. 66M; Grif 1302.

PI 593758. Solanum melongena L.
Uncertain. 67; Grif 1304.

PI 593759. Solanum melongena L.
Uncertain. 69A; Grif 1307.

PI 593760. Solanum melongena L.
Uncertain. 70I; Grif 1310.

PI 593761. Solanum melongena L.
Uncertain. 71G; Grif 1314.

PI 593762. Solanum melongena L.
Uncertain. 72; Grif 1315.

PI 593763. Solanum melongena L.
Uncertain. 74; Grif 1316.
PI 593764. Solanum melongena L. Uncertain. 77; Grif 1319.

PI 593765. Solanum melongena L. Uncertain. 78; Grif 1320.

PI 593766. Solanum melongena L. Uncertain. 80; Grif 1321.

PI 593767. Solanum melongena L. Uncertain. 82; Grif 1323.

PI 593768. Solanum melongena L. Uncertain. 86; Grif 1327.

PI 593769. Solanum melongena L. Uncertain. 87; Grif 1328.

PI 593770. Solanum melongena L. Uncertain. 88; Grif 1329.

PI 593771. Solanum melongena L. Uncertain. 89; Grif 1330.

PI 593772. Solanum melongena L. Uncertain. 92; Grif 1332.

PI 593773. Solanum melongena L. Uncertain. 94; Grif 1333.

PI 593774. Solanum melongena L. Uncertain. 97A; Grif 1336.

PI 593775. Solanum melongena L. Uncertain. 97B; Grif 1337.

PI 593776. Solanum melongena L. Uncertain. 101; Grif 1340.

PI 593777. Solanum melongena L. Uncertain. 102; Grif 1341.

PI 593778. Solanum melongena L. Uncertain. 107; Grif 1344.

PI 593779. Solanum melongena L. Uncertain. 110; Grif 1347.

PI 593780. Solanum melongena L. Uncertain. 111; Grif 1348.

PI 593781. Solanum melongena L. Uncertain. 112; Grif 1349.
PI 593782. Solanum melongena L. Uncertain. 113; Grif 1350.

PI 593783. Solanum melongena L. Uncertain. 114; Grif 1351.

PI 593784. Solanum melongena L. Uncertain. 115; Grif 1352.

PI 593785. Solanum melongena L. Uncertain. 117; Grif 1354.

PI 593786. Solanum melongena L. Uncertain. 118; Grif 1355.

PI 593787. Solanum melongena L. Uncertain. 119; Grif 1356.

PI 593789. Solanum melongena L. Uncertain. 121; Grif 1358.

PI 593790. Solanum melongena L. Uncertain. 122; Grif 1359.

PI 593791. Solanum melongena L. Uncertain. 123; Grif 1360.

PI 593792. Solanum melongena L. Uncertain. 124; Grif 1361.

PI 593793. Solanum melongena L. Uncertain. 125; Grif 1362.

PI 593794. Solanum melongena L. Uncertain. 126; Grif 1363.

PI 593795. Solanum melongena L. Uncertain. 127; Grif 1364.

PI 593796. Solanum melongena L. Uncertain. 129; Grif 1366.

PI 593797. Solanum melongena L. Uncertain. 132; Grif 1369.

PI 593798. Solanum melongena L. Uncertain. 142; Grif 1376.

PI 593799. Solanum melongena L. Uncertain. 145; Grif 1379.

PI 593800. Solanum melongena L. Uncertain. 147; Grif 1381.

PI 593801. Solanum melongena L.
PI 593802. Solanum melongena L. Uncertain. 156; Grif 1387.
PI 593803. Solanum melongena L. Uncertain. 160; Grif 1391.
PI 593804. Solanum melongena L. Uncertain. 162; Grif 1393.
PI 593805. Solanum melongena L. Uncertain. 169; Grif 1398.
PI 593806. Solanum melongena L. Uncertain. 170; Grif 1399.
PI 593807. Solanum melongena L. Uncertain. 171; Grif 1400.
PI 593808. Solanum melongena L. Uncertain. 180; Grif 1407.
PI 593809. Solanum melongena L. Uncertain. 181; Grif 1408.
PI 593810. Solanum melongena L. Uncertain. 187; Grif 1413.
PI 593811. Solanum melongena L. Uncertain. 189; Grif 1414.
PI 593812. Solanum melongena L. Uncertain. 190; Grif 1415.
PI 593813. Solanum melongena L. Uncertain. 192; Grif 1416.
PI 593814. Solanum melongena L. Uncertain. 193; Grif 1417.
PI 593815. Solanum melongena L. Uncertain. 194; Grif 1418.
PI 593816. Solanum melongena L. Uncertain. 195; Grif 1419.
PI 593817. Solanum melongena L. Uncertain. 196; Grif 1420.
PI 593818. Solanum melongena L. Uncertain. 197; Grif 1421.
PI 593819. Solanum melongena L. Uncertain. 198; Grif 1422.
PI 593820. Solanum melongena L. Uncertain. 200; Grif 1424.

PI 593821. Solanum melongena L. Uncertain. 201; Grif 1425.

PI 593822. Solanum melongena L. Uncertain. 203; Grif 1427.

PI 593823. Solanum melongena L. Uncertain. 212; Grif 1436.

PI 593824. Solanum melongena L. Uncertain. 213; Grif 1437.

PI 593825. Solanum melongena L. Uncertain. 215; Grif 1438.

PI 593826. Solanum melongena L. Uncertain. 216; Grif 1439.

PI 593827. Solanum melongena L. Uncertain. 217; Grif 1440.

PI 593828. Solanum melongena L. Uncertain. 218; Grif 1441.

PI 593829. Solanum melongena L. Uncertain. 221; Grif 1444.

PI 593830. Solanum melongena L. Uncertain. 224; Grif 1448.

PI 593831. Solanum melongena L. Uncertain. 225; Grif 1449.

PI 593832. Solanum melongena L. Uncertain. 226; Grif 1450.

PI 593833. Solanum melongena L. Uncertain. 228; Grif 1452.

PI 593834. Solanum melongena L. Uncertain. 229; Grif 1453.

PI 593835. Solanum melongena L. Uncertain. 230; Grif 1454.

PI 593836. Solanum melongena L. Uncertain. 231; Grif 1455.

PI 593837. Solanum melongena L. Uncertain. 232; Grif 1456.
PI 593838. Solanum melongena L.  
Uncertain. 233; Grif 1457.

PI 593839. Solanum melongena L.  
Uncertain. 234; Grif 1458.

PI 593840. Solanum melongena L.  
Uncertain. 236; Grif 1460.

PI 593841. Solanum melongena L.  
Uncertain. 237; Grif 1461.

PI 593842. Solanum melongena L.  
Uncertain. 238; Grif 1462.

PI 593843. Solanum melongena L.  
Uncertain. 239; Grif 1463.

PI 593844. Solanum melongena L.  
Uncertain. 240; Grif 1464.

PI 593845. Solanum melongena L.  
Uncertain. 241; Grif 1465.

PI 593846. Solanum melongena L.  
Uncertain. 242; Grif 1466.

PI 593847. Solanum melongena L.  
Uncertain. 244; Grif 1468.

PI 593848. Solanum melongena L.  
Uncertain. 253; Grif 1476.

PI 593849. Solanum melongena L.  
Uncertain. 256; Grif 1478.

PI 593850. Solanum melongena L.  
Uncertain. 258; Grif 1480.

PI 593851. Solanum melongena L.  
Uncertain. 259; Grif 1481.

PI 593852. Solanum melongena L.  
Uncertain. 260; Grif 1482.

PI 593853. Solanum melongena L.  
Uncertain. 262; Grif 1484.

PI 593854. Solanum melongena L.  
Uncertain. 264; Grif 1486.

PI 593855. Solanum melongena L.  
Uncertain. 265; Grif 1487.

PI 593856. Solanum melongena L.
Uncertain. 266; Grif 1488.

PI 593857. Solanum melongena L.
Uncertain. 272; Grif 1493.

PI 593858. Solanum melongena L.
Uncertain. 273; Grif 1494.

PI 593859. Solanum melongena L.
Uncertain. 274; Grif 1495.

PI 593860. Solanum melongena L.
Uncertain. 275; Grif 1496.

PI 593861. Solanum melongena L.
Uncertain. 276; Grif 1497.

PI 593862. Solanum melongena L.
Uncertain. 277; Grif 1498.

PI 593863. Solanum melongena L.
Uncertain. 278; Grif 1499.

PI 593864. Solanum melongena L.
Uncertain. 279; Grif 1500.

PI 593865. Solanum melongena L.
Uncertain. 280; Grif 1501.

PI 593866. Solanum melongena L.
Uncertain. 281; Grif 1502.

PI 593867. Solanum melongena L.
Uncertain. 282; Grif 1503.

PI 593868. Solanum melongena L.
Uncertain. 283; Grif 1504.

PI 593869. Solanum melongena L.
Uncertain. 284; Grif 1505.

PI 593870. Solanum melongena L.
Uncertain. 285; Grif 1506.

PI 593871. Solanum melongena L.
Uncertain. 286; Grif 1507.

PI 593872. Solanum melongena L.
Uncertain. 287; Grif 1508.

PI 593873. Solanum melongena L.
Uncertain. 288; Grif 1509.

PI 593874. Solanum melongena L.
Uncertain. 289; Grif 1510.
PI 593875. Solanum melongena L.
Uncertain. 290; Grif 1511.

PI 593876. Solanum melongena L.
Uncertain. 292; Grif 1512.

PI 593877. Solanum melongena L.
Uncertain. 300; Grif 1514.

PI 593878. Solanum melongena L.
Uncertain. 301; Grif 1515.

PI 593879. Solanum melongena L.
Uncertain. 302; Grif 1516.

PI 593880. Solanum melongena L.
Uncertain. 308; Grif 1522.

PI 593881. Solanum melongena L.
Uncertain. 309; Grif 1523.

PI 593882. Solanum melongena L.
Uncertain. 310; Grif 1524.

PI 593883. Solanum melongena L.
Uncertain. 311; Grif 1525.

PI 593884. Solanum melongena L.
Uncertain. 313; Grif 1527.

PI 593885. Solanum melongena L.
Uncertain. 314; Grif 1528.

PI 593886. Solanum melongena L.
Uncertain. 315; Grif 1529.

The following were developed by Jerry F. Miller, USDA, ARS, Northern Crops Research Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States; Leonard Francl, North Dakota State University, Dept of Plant Pathology, Fargo, North Dakota 58105, United States; Elias M. Elias, North Dakota State University, Dept of Plant Sciences, P.O. Box 5051, Fargo, North Dakota 58104-5051, United States. Received 03/04/1996.

PI 593887. Triticum turgidum L.
Cultivar. Pureline. "MUNICH". CV-829; PVP 9600153. Pedigree - D8030/D8016. High yielding, average test weight (768.3 kg m-3), stiff strawed, and daylength-sensitive. Medium height and maturity. Spikes long, awned, oblong, mid-dense and erect. Kernels amber color and mid-sized (36.7 mg). Adapted to upper midwest and recommended to the Langdon, ND area. Strong gluten and 143 g kg-1 semolina protein. Resistant to stem rust (Puccinia graminia) and leaf rust (P. recondita). Moderate resistance to tan spot (Pyrenophora tritici-repentis) and Fusarium head blight (Gibberella zeae).
The following were developed by Phyllis Richardson, Vista - Land O'Lake Inc., RR 2, Webster City, Iowa 50595, United States; Robert R. Kalton, Peterson Seed Company, Inc., P.O. Box 346, Savage, Minnesota 55378, United States. Received 1996.

PI 593888. Dactylis glomerata L.
Cultivar. "DUKE"; Exp. No. DS8. CV-14; PVP 9600180. Pedigree - Narrow based, 7-clone synthetic derived from the following germplasm: PI 315425 (3 clones), PI 325302 (2 clones), and Jackson (2 clones). These two PI's were introduced from Russia in the late 1960's. Unique variety in that it combines medium maturity, a high level of winter hardiness and rust and leaf blight resistance, improved forage quality and equal forage and seed yielding ability with proper management compared with the preponderance of early-maturing (blooming) varieties and the few medium or late maturing varieties available in the USA. Averages 4-6 days later than Benchmark, Justus, Potomac in Iowa and 10-12 days later in Oregon and survives much better than these varieties under severe winter kill conditions. Resistance very good to stem rust (Puccinia graminis), crown rust (P. coronata), leaf rust (P. rubigo-vera), leaf streak (Scolecotrichum graminis) and scald (Rhynchosporium orthosporium).

The following were developed by Gilbert Stallknecht, Montana State University, Central Agric. Research Center, HC 90, Box 20, Moccasin, Montana 59462, United States; Wendell Morrill, Montana State University, Dept. of Entomology, Bozeman, Montana 59717, United States; G.D. Kushnak, Montana State University, Western Triangle Agric. Research Center, P.O. Box 1474, Conrad, Montana 59425, United States; Phil L. Bruckner, Montana State University, Dept of Plant, Soil & Environmental Sciences, Leon Johnson Hall, Bozeman, Montana 59717-0312, United States; E.A. Hockett, USDA, ARS, Montana State University, Plant and Soil Science Department, Bozeman, Montana 59717, United States; G.R. Carlson, Montana State University, Northern Agric. Research Center, Havre, Montana 59501, United States; J.L. Eckhoff, Montana State University, Eastern Agric. Research Center, Sidney, Montana 59270, United States; D.W. Wichman, Montana State University, Central Agric. Research Center, Moccasin, Montana 59462, United States; H.P. Bowman, Montana State University, Dept. of Plant, Soil & Environmental Sciences, Bozeman, Montana 59717, United States; R.N. Stougaard, Northwestern Agric. Res. Ctr., Kalispell, Montana 59901, United States; J.E. Berg, Montana State University, Dept. of Plant, Soil & Environmental Sciences, Bozeman, Montana 59717, United States; K.A. Tilley, Kansas State University, Dept. of Grain Science & Industry, Manhattan, Kansas 66506, United States. Received 03/07/1996.


The following were developed by Gilbert Stallknecht, Montana State University, Central Agric. Research Center, HC 90, Box 20, Moccasin, Montana 59462, United States; Wendell Morrill, Montana State University, Dept. of Entomology, Bozeman, Montana 59717, United States; G.D. Kushnak, Montana State University, Western Triangle Agric. Research Center, P.O. Box 1474, Conrad, Montana 59425, United States; Phil L. Bruckner, Montana State University, Dept of Plant, Soil & Environmental Sciences, Leon Johnson Hall, Bozeman, Montana 59717-0312, United States; G.A. Taylor, Montana State University, Dept. of Plant, Soil & Environmental Sciences, Bozeman, Montana, United States; Don V. McVey, USDA, ARS, University of Minnesota, Cereal Rust Laboratory, St. Paul, Minnesota 55105, United States; G.R. Carlson, Montana State University, Northern Agric. Research Center, Havre, Montana 59501, United States; J.L. Eckhoff, Montana State University, Eastern Agric. Research Center, Sidney, Montana 59270, United States; D.W. Wichman, Montana State University, Central Agric. Research Center, Moccasin, Montana 59462, United States; H.F. Bowman, Montana State University, Dept. of Plant, Soil & Environmental Sciences, Bozeman, Montana 59717, United States; R.N. Stougaard, Northwestern Agric. Res. Ctr., Kalispell, Montana 59901, United States; E.A. Hockett, USDA, ARS, Montana State University, Plant and Soil Science Department, Bozeman, Montana 59717, United States; G.A. Taylor, Montana State University, Dept. of Plant, Soil & Environmental Sciences, Bozeman, Montana, United States; G.R. Carlson, Montana State University, Northern Agric. Research Center, Havre, Montana 59501, United States; J.L. Eckhoff, Montana State University, Eastern Agric. Research Center, Moccasin, Montana 59462, United States; D.W. Wichman, Montana State University, Central Agric. Research Center, Moccasin, Montana 59462, United States; H.F. Bowman, Montana State University, Dept. of Plant, Soil & Environmental Sciences, Bozeman, Montana 59717, United States; R.N. Stougaard, Northwestern Agric. Res. Ctr., Kalispell, Montana 59901, United States; J.E. Berg, Montana State University, Dept. of Plant, Soil & Environmental Sciences, Bozeman, Montana 59717, United States; K.A. Tilley, Kansas State University, Dept. of Grain Science & Industry, Manhattan, Kansas 66506, United States. Received 03/07/1996.
Cultivar. Pureline. "VANGUARD"; MTSF2238. CV-850. Pedigree - Lew/Tiber/Redwin. Solid-stemmed, medium-maturity hard red winter wheat with tolerance to feeding and cutting damage of the wheat stem sawfly (Cephus cinctus). Medium to low yield potential, intermediate height, and moderately weak straw strength. Winterhardiness marginal for Montana. White straw and chaff. Susceptible to prevalent races of *Puccinia graminis*, *Diuraphis noxia*, and *Tilletia controversa*. Coleoptile length long. Grain volume weight, protein content, and milling and baking characteristics acceptable for high-quality bread flour production. Heterogeneous for height and several morphological traits, containing up to 5% tall variants, 7.5% hollow-stemmed plants, 0.1% awnless plants, and 0.1% red-chaffed plants.

The following were developed by Charles N. Bollich, USDA-ARS, Rice Research, RT. 7, Box 999, Beaumont, Texas 77706, United States; Anna McClung, USDA, ARS, Rice Research Station, Route 7, Box 999, Beaumont, Texas 77713, United States; M.A. Marchetti, USDA-ARS, Rice Research Station, Texas A&M Experiment Station, Beaumont, Texas 77713, United States; B.D. Webb, USDA, ARS, Texas A&M Univ. Agric. Res. and Ext. Center, Rt. 7, Box 999, Beaumont, Texas 77713-8530, United States. Received 03/11/1996.

PI 593892. *Oryza sativa* L.

Unknown source. Received 03/08/1996.

PI 593893. *Humulus lupulus* L.


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PI 593894. **Cajanus cajan** (L.) Millsp.

The following were developed by Fred R. Miller, Texas A & M University, Department of Soil & Crop Science, College Station, Texas 77843-2474, United States. Received 10/31/1995.

PI 593895. **Sorghum bicolor** (L.) Moench
Breeding. A3TAM428. Pedigree - SC110-9-P1-1-2-P1-BK.

PI 593896. **Sorghum bicolor** (L.) Moench
Breeding. B3TAM428. Pedigree - SC110-9-P1-1-2-P1-BK.

PI 593897. **Sorghum bicolor** (L.) Moench

PI 593898. **Sorghum bicolor** (L.) Moench

PI 593899. **Sorghum bicolor** (L.) Moench
Breeding. A3Tx433. Pedigree - (Tx414*SC108-6-6-2-E2)-15-1-2-11-x-x.

PI 593900. **Sorghum bicolor** (L.) Moench
Breeding. B3TX433. Pedigree - (Tx414*SC108-6-6-2-E2)-15-1-2-11-x-x.

PI 593901. **Sorghum bicolor** (L.) Moench
Breeding. A3Tx434. Pedigree - (Tx414*SC108-6-6-2-E2)-15-2-3-6-3-6-l-x-x.

PI 593902. **Sorghum bicolor** (L.) Moench
Breeding. B3TX434. Pedigree - (Tx414*SC108-6-6-2-E2)-15-2-3-6-3-6-l-x-x.

PI 593903. **Sorghum bicolor** (L.) Moench
Breeding. A3Tx435. Pedigree - (Tx2816*Tx430)-1-4-7-4-BK-x-x.

PI 593904. **Sorghum bicolor** (L.) Moench
Breeding. B3TX435. Pedigree - (Tx2816*Tx430)-1-4-7-4-BK-x-x.
PI 593905. *Sorghum bicolor* (L.) Moench
Breeding. A3Tx436. Pedigree - ((SC120-6-sel*Tx7000)*Tx7000)-10-4-6-1-1-1-BK.

PI 593906. *Sorghum bicolor* (L.) Moench
Breeding. B3Tx436. Pedigree - ((SC120-6-sel*Tx7000)*Tx7000)-10-4-6-1-1-1-BK.

PI 593907. *Sorghum bicolor* (L.) Moench
Breeding. A3Tx2737. Pedigree - [TAM2554*[Tx2536*(Tx7000*SA7536-l)F3]]-3-2-5-BK.

PI 593908. *Sorghum bicolor* (L.) Moench
Breeding. B3Tx2737. Pedigree - [TAM2554*[TX2536*(Tx7000*SA7536-l)F3]]-3-2-5-BK.

PI 593909. *Sorghum bicolor* (L.) Moench
Breeding. A3Tx2817. Pedigree - SC170-6-5-1-E2-x-x-x (partially converted PI276837).

PI 593910. *Sorghum bicolor* (L.) Moench
Breeding. B3Tx2817. Pedigree - SC170-6-5-1-E2-x-x-x (partially converted PI276837).

PI 593911. *Sorghum bicolor* (L.) Moench
Breeding. A3SC103-12E. Pedigree - IS2403 BC3, F3 selection, and inbred 5+ generations. Selection from TAES-USDA Sorghum conversion program.

PI 593912. *Sorghum bicolor* (L.) Moench
Breeding. B3SC103-12E. Pedigree - IS2403 BC3, F3 selection, and inbred 5+ generations.

PI 593913. *Sorghum bicolor* (L.) Moench

PI 593914. *Sorghum bicolor* (L.) Moench
Breeding. B3SC326-6. Pedigree - IS3758 BC1, F3 selection, and inbred 5+ generations.

PI 593915. *Sorghum bicolor* (L.) Moench

PI 593916. *Sorghum bicolor* (L.) Moench
Breeding. B3SC599-6-9188. Pedigree - IS17459 (Rio) BC1, F3 selection, and inbred 5+ generations (early maturity selection).

PI 593917. *Sorghum bicolor* (L.) Moench

The following were collected by Karen A. Williams, USDA, ARS, Natl. Germplasm Resources Laboratory, Building 003, Room 400, BARC-West, Beltsville, Maryland 20705-2350, United States; David E. Williams, International Plant Genetic Resources Institute, Regional Office - Americas, CIAT, International Center for Tropical Agriculture, Cali, Colombia; Cesar Tapia Bastidas, Dept. Nacional de Recursos Fitogeneticos Y Biotechnologia, Instituto Nacional Autonomo de Investigaciones Agropecuarias, Estacion Experimental Sta. Catalina, Panamericana Sur km.17, Quito, Ecuador. Received 11/17/1995.

PI 593919. Capsicum annuum L.

PI 593920. Capsicum annuum L.

PI 593921. Capsicum chinense Jacq.

PI 593922. Capsicum chinense Jacq.

PI 593923. Capsicum chinense Jacq.
Landrace. WWT-1326; Aji. Collected 10/23/1995 in Ecuador. Latitude 0 deg. 4' 58'' N. Longitude 76 deg. 53' 57'' W. Elevation 445 m. Prov. Sucumbios, Canton Lago Agrio, Parroquia, Localidad Lago Agrio, Solar de un taller mecanico. To 1.6m tall. Leaves dark green, crinkled. Fruits globose with broad ribs, 1.5 cm long, 2 cm diameter, dark red when ripe. Flowers yellowish white, anthers white.

PI 593924. Capsicum sp.
Landrace. WWT-1336; Aji bravo; Imili uchu. Collected 10/16/1995 in Ecuador. Latitude 1 deg. 2' 19'' S. Longitude 67 deg. 34' 57'' W. Elevation 470 m. Prov. Napo, Canton Tena, Parroquia Misahualli,
Localidad Pusuno, house on river bank of Rio Napo. 1.6m tall. Flowers yellow-white, anthers purple. Fruits erect, elongate conical, erect, orange-red when ripe, 3 cm long. Very piquant.

PI 593925. Capsicum sp.

PI 593926. Capsicum chinense Jacq.

PI 593927. Capsicum sp.

PI 593928. Capsicum sp.
Landrace. WWT-1341; Boton uchu; Aji boton. Collected 10/26/1995 in Ecuador. Latitude 1 deg. 2' 19'' S. Longitude 67 deg. 34' 57'' W. Elevation 470 m. Prov. Napo, Canton Tena, Parroq. Misahualli, Localidad Pusuno, house on river bank of Rio Napo. 1.5m tall. Leaves wrinkled. Flowers yellow-white, purple stamens. Fruits pendant, blunt conical or heart shaped, 1.5 cm long, 1 cm diameter at base, orange-red when ripe. Piquant.

PI 593929. Capsicum annuum L.

PI 593930. Capsicum pubescens Ruiz Lopez & Pavon
PI 593931. Capsicum sp.
Cultivar. WWT-1371-B; Aji picante. Collected 11/03/1995 in Ecuador.
Latitude 3 deg. 41' 49'' S. Longitude 79 deg. 41' 12'' W. Elevation 1060 m. Provincia El Oro, Canton Pinas, Parroquia Pinas, Localidad Pinas.

PI 593932. Capsicum sp.
Cultivar. WWT-1372; Aji picante. Collected 11/05/1995 in Ecuador.
Latitude 3 deg. 41' 49'' S. Longitude 79 deg. 41' 12'' W. Elevation 1060 m. Provincia El Oro, Canton Pinas, Parroquia Pinas, Localidad Pinas.
Locally grown. Purchased in market. Fruits fusiform, 9-10cm long, 2-3cm wide, red when ripe.

PI 593933. Capsicum chinense Jacq.
Cultivar. WWT-1381; Aji de boton. Collected 11/04/1995 in Ecuador.
Latitude 1 deg. 3' 6'' S. Longitude 80 deg. 27' 4'' W. Elevation 15 m. Provincia Manabi, Canton Portoviejo, Parroquia Portoviejo, Localidad Portoviejo. Locally grown. Purchased in market. Fruits heart shaped, 3cm long, 2cm wide with 3-4 broad ribs. Orange-yellow when ripe. Moderately piquant.

The following were donated by David Spooner, University of Wisconsin, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706, United States; Agricultural Research Station, Legume Research Program, Rampur, Nepal. Received 05/11/1995.

PI 593934. Glycine max (L.) Merr.
Cultivated. Inbred. White (seti); SY 9501001.

PI 593935. Glycine max (L.) Merr.
Cultivated. Inbred. PK 327; SY 9501002.

PI 593936. Glycine max (L.) Merr.
Cultivated. Inbred. Hardy; SY 9501003.

The following were donated by Zhongtang Liu, Hejiang Agricultural Institute, No. 83 Anqing Road, Jiamusi, Heilongjiang 154007, China. Received 05/11/1995.

PI 593937. Glycine max (L.) Merr.
Cultivated. Inbred. Hei he No. 54; SY 9502001.

PI 593938. Glycine max (L.) Merr.
Cultivated. Inbred. He feng No. 34; SY 9502002.

PI 593939. Glycine max (L.) Merr.
Cultivated. Inbred. He feng No. 35; SY 9502003.

PI 593940. Glycine max (L.) Merr.
Cultivated. Inbred. He feng 7791; SY 9502004.
PI 593941. Glycine max (L.) Merr.  
Cultivated. Inbred. He feng 8719; SY 9502005.

PI 593942. Glycine max (L.) Merr.  
Cultivated. Inbred. He feng 9388; SY 9502006.

PI 593943. Glycine max (L.) Merr.  
Cultivated. Inbred. He feng 88851; SY 9502007.

The following were donated by Guang Yu Sun, Soybean Investigations, Land Reclamation and Ag. Sci., 156 Anaing Stree, Jiamusi, Heilongjiang 154007, China. Received 05/11/1995.

PI 593944. Glycine max (L.) Merr.  
Cultivated. Inbred. Ken nong No. 7; SY 9503001.

PI 593945. Glycine max (L.) Merr.  
Cultivated. Inbred. Ken nong No. 4; SY 9503002.

PI 593946. Glycine max (L.) Merr.  
Cultivated. Inbred. Ken feng No. 3; SY 9503003.

PI 593947. Glycine max (L.) Merr.  
Cultivated. Inbred. He feng No. 25; SY 9503004.

PI 593948. Glycine max (L.) Merr.  
Cultivated. Inbred. Ken 83-2921; SY 9503005.

PI 593949. Glycine max (L.) Merr.  

PI 593950. Glycine max (L.) Merr.  
Cultivated. Inbred. Ken 84-4009; SY 9503007.

PI 593951. Glycine max (L.) Merr.  
Cultivated. Inbred. JH-1; SY 9503008.

The following were donated by Guo Hua Hu, Hong Xinglong Research Institue, Agricultural Center, Heilongjiang Academy of Agricultural Reclamation Sciences, Youyi County, Heilongjiang 155811, China. Received 05/11/1995.

PI 593952. Glycine max (L.) Merr.  
Cultivated. Inbred. He feng No. 35; SY 9504001.

PI 593953. Glycine max (L.) Merr.  
Cultivated. Inbred. Sui nong No. 10; SY 9504002.

The following were donated by Weiguang Du, Soybean Institute, Heilongjiang Acad. of Ag. Sci., No. 368 Xuefu Road, Harbin, Heilongjiang 150086, China. Received 05/11/1995.

PI 593954. Glycine max (L.) Merr.
Cultivated. Inbred. Hei nong No. 37; SY 9505001.

The following were donated by Rui Zhong Zhang, Soybean Research Institute, Northeast Agricultural Univ., Harbin, Heilongjiang 150030, China. Received 05/11/1995.

PI 593955. Glycine max (L.) Merr.
Cultivated. Inbred. NEAC No. 187; SY 9506001.

PI 593956. Glycine max (L.) Merr.
Cultivated. Inbred. NEAC No. 190; SY 9506002.

PI 593957. Glycine max (L.) Merr.
Cultivated. Inbred. NEAC No. 593; SY 9506003.

The following were donated by Jincheng Luo, Soybean Institute, Jilin Academy of Ag. Science, Gongzhuling, Jilin 136100, China. Received 05/11/1995.

PI 593958. Glycine max (L.) Merr.
Cultivated. Inbred. GD 3229; Jilin No. 30; SY 9507001.

PI 593959. Glycine max (L.) Merr.
Cultivated. Inbred. Jilin No. 31; SY 9507002.

PI 593960. Glycine max (L.) Merr.
Cultivated. Inbred. Jilin No. 32; SY 9507003.

PI 593961. Glycine max (L.) Merr.
Cultivated. Inbred. GD 369; SY 9507004.

PI 593962. Glycine max (L.) Merr.
Cultivated. Inbred. GD 1596; SY 9507005.

PI 593963. Glycine max (L.) Merr.
Cultivated. Inbred. GD 2828; SY 9507006.

PI 593964. Glycine max (L.) Merr.
Cultivated. Inbred. GD 3009; SY 9507007.

PI 593965. Glycine max (L.) Merr.
Cultivated. Inbred. GD 3016; SY 9507008.

PI 593966. Glycine max (L.) Merr.
Cultivated. Inbred. GD 3106; SY 9507009.

PI 593967. Glycine max (L.) Merr.
Cultivated. Inbred. GD 3184; SY 9507010.

PI 593968. Glycine max (L.) Merr.
Cultivated. Inbred. GD 3245; SY 9507012.

PI 593969. Glycine max (L.) Merr.
Cultivated. Inbred. GD 3325; SY 9507013.
The following were donated by Kazue Shirai, Hokkaido Perfectural Genetic Resources, 363-2, Minami-Takinokawa, Takikawa, Hokkaido 073, Japan. Received 08/30/1995.

Cultivated. Inbred. Oosodeno mai; SY 9512001.

PI 593971. *Glycine max* (L.) Merr. 
Cultivated. Inbred. Kariyutaka; SY 9512002.

PI 593972. *Glycine max* (L.) Merr. 
Cultivated. Inbred. Suzumaru; SY 9512003.

Cultivated. Inbred. Toyokomachi; SY 9512004.

PI 593974. *Glycine max* (L.) Merr. 
Cultivated. Inbred. Toyomusume; SY 9512005.

Cultivated. Inbred. Tsurumusume; SY 9512006.

Cultivated. Inbred. Gokuwase chishima; SY 9512007.

Cultivated. Inbred. Rankoshi; SY 9512008.

Cultivated. Inbred. Sakamotowase; SY 9512009.

Cultivated. Inbred. Wasekosode; SY 9512010.

Cultivated. Inbred. Wasekosode; SY 9512011.

Cultivated. Inbred. Karafuto 1; SY 9512012.

PI 593982. *Glycine max* (L.) Merr. 
Cultivated. Inbred. SY 9512013.

Cultivated. Inbred. SY 9512014. Wild line received with *G. max* donations.

Unknown source. Received 12/15/1995.

Cultivated. Inbred. SY 9514001.

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Unknown source. Received 12/15/1995.

**PI 593985. Glycine max** (L.) Merr.
Cultivated. Inbred. SY 9514002.

Unknown source. Received 12/15/1995.

**PI 593986. Glycine max** (L.) Merr.
Cultivated. Inbred. SY 9514003.

Unknown source. Received 12/15/1995.

**PI 593987. Glycine max** (L.) Merr.
Cultivated. Inbred. SY 9514004.

Unknown source. Received 12/15/1995.

**PI 593988. Glycine max** (L.) Merr.
Cultivated. Inbred. SY 9514005.

Unknown source. Received 12/15/1995.

**PI 593989. Glycine max** (L.) Merr.
Cultivated. Inbred. SY 9514006.

Unknown source. Received 12/15/1995.

**PI 593990. Glycine max** (L.) Merr.
Cultivated. Inbred. SY 9514007.

Unknown source. Received 12/15/1995.

**PI 593991. Glycine max** (L.) Merr.
Cultivated. Inbred. 4266; Kwangheukdaedu; SY 9514008.

Unknown source. Received 12/15/1995.

**PI 593992. Glycine max** (L.) Merr.
Cultivated. Inbred. SY 9514009.

Unknown source. Received 12/15/1995.

**PI 593993. Glycine max** (L.) Merr.
Cultivated. Inbred. SY 9514010.
Unknown source. Received 12/15/1995.

PI 593994. Glycine max (L.) Merr.  
Cultivated. Inbred. SY 9514011.

Unknown source. Received 12/15/1995.

PI 593995. Glycine max (L.) Merr.  
Cultivated. Inbred. SY 9514012.

Unknown source. Received 12/15/1995.

PI 593996. Glycine max (L.) Merr.  
Cultivated. Inbred. Baemkong; SY 9514013.

Unknown source. Received 12/15/1995.

PI 593997. Glycine max (L.) Merr.  
Cultivated. Inbred. SY 9514014.

Unknown source. Received 12/15/1995.

PI 593998. Glycine max (L.) Merr.  
Cultivated. Inbred. SY 9514015.

Unknown source. Received 12/15/1995.

PI 593999. Glycine max (L.) Merr.  
Cultivated. Inbred. SY 9514016.

Unknown source. Received 12/15/1995.

PI 594000. Glycine max (L.) Merr.  
Cultivated. Inbred. SY 9514017.

Unknown source. Received 12/15/1995.

PI 594001. Glycine max (L.) Merr.  
Cultivated. Inbred. SY 9514018.

Unknown source. Received 12/15/1995.

PI 594002. Glycine max (L.) Merr.  
Cultivated. Inbred. SY 9514019.
PI 594003. Glycine max (L.) Merr.
Cultivated. Inbred. SY 9514020.

Unknown source. Received 12/15/1995.

PI 594004. Glycine max (L.) Merr.
Cultivated. Inbred. SY 9514021.

Unknown source. Received 12/15/1995.

PI 594005. Glycine max (L.) Merr.
Cultivated. Inbred. SY 9514022.

Unknown source. Received 12/15/1995.

PI 594006. Glycine max (L.) Merr.
Cultivated. Inbred. Junjeri-1; SY 9514023.

Unknown source. Received 12/15/1995.

PI 594007. Glycine max (L.) Merr.
Cultivated. Inbred. Junjeri-2; SY 9514024.

Unknown source. Received 12/15/1995.

PI 594008. Glycine max (L.) Merr.
Cultivated. Inbred. Junjeri-3; SY 9514025.

Unknown source. Received 12/15/1995.

PI 594009. Glycine max (L.) Merr.
Cultivated. Inbred. 4286; Daemadaedu; SY 9514026.

Unknown source. Received 12/15/1995.

PI 594010. Glycine max (L.) Merr.
Cultivated. Inbred. 4287; Jekpaunmokdaedu; SY 9514027.

Unknown source. Received 12/15/1995.

PI 594011. Glycine max (L.) Merr.
Cultivated. Inbred. 4291; Josaeng Heukchensuk; SY 9514028.

Unknown source. Received 12/15/1995.
PI 594012. Glycine max (L.) Merr.
Cultivated. Inbred. 4292; Heusatsangdu; SY 9514029.

Unknown source. Received 12/15/1995.

PI 594013. Glycine max (L.) Merr.
Cultivated. Inbred. 4299; Heukdaedusolib; SY 9514030.

Unknown source. Received 12/15/1995.

PI 594014. Glycine max (L.) Merr.
Cultivated. Inbred. 4300; Semogtae; SY 9514031.

Unknown source. Received 12/15/1995.

PI 594015. Glycine max (L.) Merr.
Cultivated. Inbred. 4307; Labdudu; SY 9514032.

Unknown source. Received 12/15/1995.

PI 594016. Glycine max (L.) Merr.
Cultivated. Inbred. 4315; Keundaedu; SY 9514033.

Unknown source. Received 12/15/1995.

PI 594017. Glycine max (L.) Merr.
Cultivated. Inbred. 4316; Chasolib; SY 9514034.

Unknown source. Received 12/15/1995.

PI 594018. Glycine max (L.) Merr.
Cultivated. Inbred. 4336; Jangdancha; SY 9514035.

Unknown source. Received 12/15/1995.

PI 594019. Glycine max (L.) Merr.
Cultivated. Inbred. 4337; Hamandaedu; SY 9514036.

Unknown source. Received 12/15/1995.

PI 594020. Glycine max (L.) Merr.
Cultivated. Inbred. Milyang 28; Samnamkong; SY 9514037.

Unknown source. Received 12/15/1995.

PI 594021. Glycine max (L.) Merr.
Cultivated. Inbred. Milyang 31; Keun-olkong; SY 9514038.

Unknown source. Received 12/15/1995.

PI 594022. Glycine max (L.) Merr.
Cultivated. Inbred. Milyang 41; Duyoukong; SY 9514039.

Unknown source. Received 12/15/1995.

PI 594023. Glycine max (L.) Merr.
Cultivated. Inbred. SY 9514040.

The following were developed by Kay H. Asay, USDA, ARS, Forage & Range Research Unit, Utah State University - UMC 6300, Logan, Utah 84322-6300, United States; N. Jerry Chatterton, USDA, ARS, Utah State University, Forage and Range Research Lab., Logan, Utah 84322-6300, United States; Richard Wang, USDA-ARS, Forage & Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; D.A. Johnson, USDA, ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States; Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States; W.H. Horton, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; S.A. Young, Utah State University, Plants, Soils, and Biometerology Department, Logan, Utah 84322-4820, United States. Received 04/08/1996.

PI 594024. Agropyron hybrid
Cultivar. "CD-II"; Hycrest-2. CV-24; PVP 9600240. Pedigree - Selected from Hycrest, which is a hybrid between induced tetraploid Agropyron cristatum and natural tetraploid Agropyron desertorum. Improved derivative of Hycrest. Selected for improved leafiness, vegetative vigor, and growth under cold temperatures. Excellent winter hardiness and resistance to drought, and noted for excellent stand-establishment vigor on harsh range sites. Produces significantly more forage under cold temperatures than Hycrest, and seedling vigor on a field site near Logan, Utah was significantly better than Hycrest. Produces abundant forage during the spring and early summer and recommended for semiarid range sites in the Intermountain Region and Great Plains receiving from 20 to 45cm annual precipitation at altitudes up to 2,200m.

The following were developed by Pioneer Hi-Bred International, Inc., United States. Received 04/16/1996.

PI 594025. Zea mays L. ssp. mays
Cultivar. "PHNG2". PVP 9600198.

PI 594026. Zea mays L. ssp. mays
Cultivar. "PH89B". PVP 9600199.

PI 594027. Zea mays L. ssp. mays
Cultivar. "PH56C". PVP 9600200.
PI 594028. Zea mays L. ssp. mays
Cultivar. "PH42B". PVP 9600201.

PI 594029. Zea mays L. ssp. mays
Cultivar. "PH38B". PVP 9600202.

PI 594030. Zea mays L. ssp. mays
Cultivar. "PH37C". PVP 9600203.

PI 594031. Zea mays L. ssp. mays

The following were developed by Del Monte Corporation, California, United States. Received 04/16/1996.

PI 594032. Capsicum annuum L.
Cultivar. "DMX 58-218". PVP 9600205.

PI 594033. Capsicum annuum L.

The following were developed by Cargill, Inc., United States. Received 04/16/1996.

PI 594034. Brassica napus L.
Cultivar. "YA307". PVP 9600207.

PI 594035. Brassica napus L.
Cultivar. "93GS34-179". PVP 9600208.

The following were developed by J.G. Boswell, P.O. Box 787, Corcoran, California 93212-0787, United States. Received 04/16/1996.

PI 594036. Gossypium hirsutum L.
Cultivar. "EL DORADO ACALA". PVP 9600209.

The following were developed by E.F. Burlingham & Sons, 1936 19th Avenue, P.O. Box 217, Forest Grove, Oregon 97116, United States. Received 04/16/1996.

PI 594037. Lolium perenne L.
Cultivar. "DIVINE". PVP 9600211.

PI 594038. Lolium perenne L.
Cultivar. "EXCEL". PVP 9600212.

PI 594039. Lolium perenne L.
Cultivar. "WIZARD". PVP 9600213.

The following were developed by Pure-Seed Testing, Inc., United States.
PI 594040. Festuca rubra L.
Cultivar. "FLYER II". PVP 9600214.

The following were developed by W-L Research, Inc, 7625 Brown Bridge Road, Highland, Maryland 20777, United States. Received 04/16/1996.

PI 594041. Medicago sativa L.
Cultivar. "WL 326 GZ". PVP 9600215.

The following were developed by Peterson Seed Company, Inc., P.O. Box 346, Savage, Minnesota 55378, United States. Received 04/16/1996.

PI 594042. Cichorium intybus L.
Cultivar. "INIA LE LACERTA". PVP 9600216.

The following were developed by AgriPro Biosciences, Inc., 806 North 2nd St., P.O. Box 30, Berthoud, Colorado 80513, United States. Received 04/16/1996.

Cultivar. Pureline. "GUNNER"; N92-2031. PVP 9600217. Pedigree - Selection from an F2 composite of at least 49 single crosses, primarily between Canadian CWRS types and US hard red spring types. Hard red spring, tall semidwarf variety adapted to the northern Hard Red Spring Wheat Region. Average yield potential, with exceptionally high test weights and high grain protein content.

The following were developed by AgriPro Seeds, R.R. #2, Box 411, Brookston, Indiana 47923, United States. Received 04/16/1996.

PI 594044. Triticum aestivum L., nom. cons.

The following were developed by Arnel Hallauer, Iowa State University, Department of Agronomy, Ames, Iowa 50011, United States; K.R. Lamkey, USDA, ARS, Field Crops Res. Unit, Ames, Iowa 50011, United States; P.R. White, Iowa State University, Dept. of Agronomy, Ames, Iowa 50011, United States. Received 04/10/1996.

PI 594045. Zea mays L. ssp. mays
Cultivar. Inbred. B102; (B85 x H992)-336; Ames 22787. PL-281. Pedigree - [(B85 x H99) x H99]-336-1-2-1-1-1-1-1-1. Released 04/08/1996. Good resistance to 1st-generation European corn borer (Ostrinia nubilalis) and early infection by grey leaf spot (Cercospora zeae-maydis). Good
pollen production, and silk emergence coincident with pollen shed. Ears have 12 to 14 rows of yellow dent kernels on white cobs. Performs better in crosses with lines having Iowa Stiff Stalk Synthetic germplasm.

PI 594046. Zea mays L. ssp. mays
Cultivar. Inbred. B103; CIMMYT Pool 41-C15-9; Ames 22788. PL-282. Pedigree - CIMMYT Pool 41-C15-9-1-1-1-1-1-1-1-1-1. Released 04/08/1996. Derived from Pool 41 (Gene Pool for the Temperate Region) developed by the International Maize and Wheat Improvement Center (CIMMYT). Flowers 4 to 7 days earlier than A632 with similar plant and ear heights. Ears have 14 to 16 rows of yellow flinty kernels on red cobs. Average root and stalk strength, above average resistance to 1st generation European corn borer (Ostrinia nubilalis), but susceptible to grey leaf spot (Cercospora zeae-maydis). Has similar cross performance in lines from Iowa Stiff Stalk Synthetic (BSSS) and non-BSSS sources.

PI 594047. Zea mays L. ssp. mays
Cultivar. Inbred. B104; BS13(S)C5-13; Ames 22789. PL-283. Pedigree - BS13(S)C5-13-1-1-2-1-1-1-1-1-1. Released 04/08/1996. Developed from BS13(S)C5, a strain of Iowa Stiff Stalk Synthetic after 12 cycles of recurrent selection. Has consistently had above average yield in crosses having primarily Lancaster Sure Crop germplasm. Flowers 2 to 4 days later than B73, but plant and ear heights are shorter than B73. Pollen production good, silk emergence coincident with pollen shed, ears have 12 to 14 rows of yellow dent kernels on pink cobs, and yield similar to that of B97. Maintains good plant health until physiological maturity. Maturity classification is AES800.

PI 594048. Zea mays L. ssp. mays
Cultivar. Inbred. B105; BSSS(R)C9-5; Ames 22790. PL-284. Pedigree - BSSS(R)C9-5-1-1-1-1-1-1-1-1-1-1-1. Released 04/08/1996. Developed from BSSS(R)C9-5, a strain of Iowa Stiff Stalk Synthetic that has been under reciprocal recurrent selection with Iowa Corn Borer Synthetic No. 1. Date of flowering and plant and ear heights are similar to B73. Silk emergence is delayed if heat and drought stress occur at flowering. Ears have 14 to 16 rows of yellow dent kernels on red cobs. Average root and stalk strength, average resistance to 1st-generation European corn borer (Ostrinia nubilalis), above-average resistance to grey leaf spot (Cercospora zeae-maydis), and average yield.

PI 594049. Zea mays L. ssp. mays
Cultivar. Inbred. B106; BS26-2-552; Ames 22791. PL-285. Pedigree - BS26-2-552-1-1-1-1-1-1-1-1-1-1-1-1-1-1. Released 04/08/1996. Developed from a Lancaster Sure Crop composite and was one of the lines intermated to form BS26. Flowering time similar to B73, Mo17, and B104. Pollen production above average, and silk emergence coincident with pollen shed. Ears have 10 to 12 rows of kernels on long, red cobs. Tends to have weak roots itself and in crosses. Good resistance to 1st-generation European corn borer (Ostrinia nubilalis), grey leaf spot (Cercospora zeae-maydis), and rust (Puccinia sorghi), and good stay green until physiological maturity. Maturity classification is AES800.

The following were developed by Tom Hoegemeyer, Hoegemeyer Hybrids, Route 2, Box 105, Hooper, Nebraska 68031, United States; C. O. Gardner, University of
PI 594050. Zea mays L. ssp. mays
Breeding. Inbred. N501. PL-239. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594051. Zea mays L. ssp. mays
Breeding. Inbred. N502. PL-240. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594052. Zea mays L. ssp. mays
Breeding. Inbred. N503. PL-241. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594053. Zea mays L. ssp. mays
Breeding. Inbred. N504. PL-242. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594054. Zea mays L. ssp. mays
Breeding. Inbred. N505. PL-243. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.
PI 594055. Zea mays L. ssp. mays
Breeding. Inbred. N506. PL-244. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and SI selection. Selection of full-sibs based upon grain yield; SI selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594056. Zea mays L. ssp. mays
Breeding. Inbred. N507. PL-245. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and SI selection. Selection of full-sibs based upon grain yield; SI selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594057. Zea mays L. ssp. mays
Breeding. Inbred. N508. PL-246. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and SI selection. Selection of full-sibs based upon grain yield; SI selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594058. Zea mays L. ssp. mays
Breeding. Inbred. N509. PL-247. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and SI selection. Selection of full-sibs based upon grain yield; SI selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594059. Zea mays L. ssp. mays
Breeding. Inbred. N510. PL-248. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and SI selection. Selection of full-sibs based upon grain yield; SI selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594060. Zea mays L. ssp. mays
Breeding. Inbred. N511. PL-249. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red
PI 594061. *Zea mays* L. *ssp. mays*
Breeding. Inbred. N512. PL-250. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594062. *Zea mays* L. *ssp. mays*
Breeding. Inbred. N513. PL-251. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594063. *Zea mays* L. *ssp. mays*
Breeding. Inbred. N514. PL-252. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594064. *Zea mays* L. *ssp. mays*
Breeding. Inbred. N515. PL-253. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

PI 594065. *Zea mays* L. *ssp. mays*
Breeding. Inbred. N516. PL-254. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate
cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.

PI 594066. Zea mays L. ssp. mays
Breeding. Inbred. N517. PL-255. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.

PI 594067. Zea mays L. ssp. mays
Breeding. Inbred. N518. PL-256. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.

PI 594068. Zea mays L. ssp. mays
Breeding. Inbred. N519. PL-257. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.

PI 594069. Zea mays L. ssp. mays
Breeding. Inbred. N520. PL-258. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.

PI 594070. Zea mays L. ssp. mays
Breeding. Inbred. N521. PL-259. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling
tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.

PI 594071. Zea mays L. ssp. mays
Breeding. Inbred. N523. PL-260. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.

PI 594072. Zea mays L. ssp. mays
Breeding. Inbred. N524. PL-261. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.

PI 594073. Zea mays L. ssp. mays
Breeding. Inbred. N525. PL-262. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.

PI 594074. Zea mays L. ssp. mays
Breeding. Inbred. N526. PL-263. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. Developed from a surviving plant following third freeze event. Adapted to central and southern Nebraska.
PI 594075. *Zea mays* L. ssp. *mays*

PI 594076. *Zea mays* L. ssp. *mays*

PI 594077. *Zea mays* L. ssp. *mays*
Breeding. Inbred. N530. PL-266. Pedigree - Inbred from Nebraska B synthetic following twelve cycles of full-sib recurrent selection to sub-optimal temperatures using growth chamber evaluations. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Adapted to central and southern Nebraska.

PI 594078. *Zea mays* L. ssp. *mays*

PI 594079. *Zea mays* L. ssp. *mays*

PI 594080. *Zea mays* L. ssp. *mays*

PI 594081. *Zea mays* L. ssp. *mays*
growth chamber evaluations. Adapted to central and southern Nebraska.

PI 594082. Zea mays L. ssp. mays
Breeding. Inbred. N536. PL-271. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594083. Zea mays L. ssp. mays
Breeding. Inbred. N537. PL-272. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594084. Zea mays L. ssp. mays
Breeding. Inbred. N538. PL-273. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594085. Zea mays L. ssp. mays
Breeding. Inbred. N539. PL-274. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594086. Zea mays L. ssp. mays

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Breeding. Inbred. N540. PL-275. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594087. Zea mays L. ssp. mays
Breeding. Inbred. N541. PL-276. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594088. Zea mays L. ssp. mays
Breeding. Inbred. N542. PL-277. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594089. Zea mays L. ssp. mays
Breeding. Inbred. N543. PL-278. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594090. Zea mays L. ssp. mays
Breeding. Inbred. N544. PL-279. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling
tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594091. Zea mays L. ssp. mays
Breeding. Inbred. N545. PL-280. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

The following were donated by National Clonal Germplasm Repository, W.R. Poage Pecan Field Station, 701 Woodson Road, Brownwood, Texas 76801, United States. Received 08/29/1984.

PI 594092. Malus micromalus Makino
Uncertain. GMAL 273.

PI 594093. Malus micromalus Makino
Uncertain. GMAL 275.

The following were donated by Bruce J. Parliman, USDA, ARS, Natl. Germplasm Resources Laboratory, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States; Hortus Botanicus Nationalis, Laboratorium Dendroflorae, Salaspils, Latvia. Received 06/19/1984.

PI 594094. Malus sieboldii (Regel) Rehder
Uncertain. GMAL 365.

The following were donated by USDA, ARS, U.S. National Arboretum, National Germplasm Repository, Washington, District of Columbia 20002, United States. Received 01/16/1986.

PI 594095. Malus orientalis Uglitzk.

The following were donated by National Clonal Germplasm Repository, W.R. Poage Pecan Field Station, 701 Woodson Road, Brownwood, Texas 76801, United States. Received 03/07/1986.
PI 594096. Malus micromalus Makino
Uncertain. GMAL 1497.

The following were donated by Norman F. Weeden, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456-0462, United States; Cheng Suozhan, Chinese Academy of Agric. Sciences, Institute of Pomology, China. Received 12/1986.

PI 594097. Malus kansuensis (Batalin) C. Schneider
Uncertain. GMAL 1875. Collected in China.

The following were collected by Norman F. Weeden, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456-0462, United States; Cheng Suozhan, Chinese Academy of Agric. Sciences, Institute of Pomology, China. Received 12/1986.

PI 594098. Malus hupehensis (Pampan.) Rehder
Uncertain. GMAL 1878. Collected in China.

PI 594099. Malus asiatica Nakai
Uncertain. GMAL 1879. Collected in China.

The following were donated by Norman F. Weeden, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456-0462, United States; Cheng Suozhan, Chinese Academy of Agric. Sciences, Institute of Pomology, China. Received 12/1986.

PI 594100. Malus spectabilis (Aiton) Borkh.
Uncertain. GMAL 1880. Collected in China.

The following were collected by Calvin R. Sperling, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 402, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; D. Eser; H.H. Gecit. Donated by USDA, ARS, U.S. National Arboretum, National Germplasm Repository, Washington, District of Columbia 20002, United States. Received 10/15/1986.

PI 594101. Malus orientalis Uglitzk.

The following were donated by Bruce J. Parliman, USDA, ARS, Natl. Germplasm Resources Laboratory, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States; Hortus Botanicus Pominianus Universitatis Kioviensis, Universitatis Kioviensis, Rue De Komintern, Kiev, Kiev 252032, Ukraine. Received 07/11/1986.
Uncertain. GMAL 1890.

The following were donated by T. Sanada, Fruit Tree Research Station, Fourth Lab. of Fruit Breeding, Yatabe, Tsukuba, Ibaraki, Japan. Received 03/30/1987.

Uncertain. GMAL 2175; Inuringo.

The following were donated by V. Vitkovskij, N.I. Vavilov All-Union Scientific, Institute of Plant Industry, 44 Herzen Str., Leningrad, Russian Federation. Received 05/01/1987.

Uncertain. GMAL 2251.

The following were collected by Norman F. Weeden, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456-0462, United States. Received 11/01/1988.


The following were donated by Zhen Long Yan, Beijing Botanical Garden, Institute of Botany, Academia Sinica, Beijing, China. Received 10/02/1989.

PI 594106. *Malus pumila* Miller  
Uncertain. GMAL 3223.

PI 594107. *Malus asiatica* Nakai  
Uncertain. GMAL 3226.

The following were donated by A.I. Campbell, Long Ashton Research Station, Long Ashton, Bristol, England BS1 9AF, United Kingdom. Received 03/31/1987.

PI 594108. *Malus domestica* Borkh.  
Uncertain. GMAL 2223; Medaille d'Or.

The following were developed by The Morton Arboretum, Lisle, Illinois 60532, United States. Donated by Jeff Crosby, Purdue University, Dept. of Botany & Plant Pathology, Lilly Hall of Life Sciences, West Lafayette, Indiana 47909, United States. Received 09/18/1987.

Uncertain. GMAL 2457; Microcarpa. Pedigree - Formerly identified by Morton Arboretum as 782-26. Fruit size 0.6". Resistant to Venturia
The following were donated by Jeff Crosby, Purdue University, Dept. of Botany & Plant Pathology, Lilly Hall of Life Sciences, West Lafayette, Indiana 47909, United States. Received 09/18/1987.

PI 594110. Malus baccata (L.) Borkh.
Uncertain. GMAL 2460; Jackii. Pedigree - Dg-R27T1 and 2 resembles the specific description given by Rehder in 1940. Introd. in 1905 by J.G. Jack. Fruit size 0.4". Resistant to Venturia inaequalis. Flower single, white, 35 mm dia. Fruit glossy, bright red, one of most attractive, long stems. Tree vigorous, upright habit.

The following were developed by Purdue University, Indiana Agr. Exp. Station, West Lafayette, Indiana 47907, United States. Donated by Rutgers Fruit Research Center, Cream Ridge, New Jersey 08514, United States. Received 08/29/1988.

PI 594111. Malus domestica Borkh.
Uncertain. GMAL 2875; Redfree. Fruit medium size, glossy with 90% bright red color. Smooth waxy, russet-free skin. Light flesh crisp and juicy, excellent flavor. Tree bears annually. Immune to scab and cedar-apple rust. Moderately resistant to fire blight and mildew. Ripens five days before Paulared, six weeks before Red Delicious. Uneven ripening, may require two pickings.


PI 594112. Malus halliana Koehne
Wild. GMAL 3143. Collected 1980 in China. Latitude 32 deg. N. Longitude 110 deg. E. Shennongia Forest District, northwestern part of Hubei Province, bounded on the west by Sichuan Province and on the south by the confluence of the Juichong and Dangyang Rivers. Complex topography of steep mountainous terrain with rich and varied flora (including relict families, genera and species).

The following were donated by Zhen Long Yan, Beijing Botanical Garden, Institute of Botany, Academia Sinica, Beijing, China. Received 10/02/1989.

PI 594113. Malus honanensis Rehder
Uncertain. GMAL 3238.

The following were collected by A. Guerrero. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.
PI 594114. Capsicum annuum L.
Landrace. 10370; BG3278. Collected in Zacatecas, Mexico. Mulato type.

The following were collected by Salvador Montes. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.

PI 594115. Capsicum annuum L.
Landrace. 10424; BG3535. Collected in Mexico.

The following were collected by Javier Salinas, C.P.A.E. Bajio, Km. 6 Carreterra Celaya Sn. Miguel de Allende, A.P.D.O. Postal No. 112, Celaya, Guanajuato, Mexico. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.

PI 594116. Capsicum annuum L.
Cultivar. 10446; Ancho la California. Collected in Mexico. Ancho type.

The following were collected by L. Perez. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.

PI 594117. Capsicum annuum L.
Landrace. 10416; BG116. Collected in Mexico.

PI 594118. Capsicum annuum L.
Cultivar. 10156; Djuljunika Shipka.

PI 594119. Capsicum annuum L.
Uncertain. 10205; BG39. Collected in Mexico.

The following were collected by Jose Laborde, Guanajuato 117, Celaya, Guanajuato GTO 38040, Mexico. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.

PI 594120. Capsicum annuum L.
Landrace. 10208; BG116. Collected in Mexico.

PI 594121. Capsicum annuum L.
Landrace. 10245; BG1515. Collected in Mexico.

PI 594122. Capsicum annuum L.
Landrace. 10268; BG1649. Collected in Nayarit, Mexico.
PI 594123. Capsicum annuum L.  

PI 594124. Capsicum annuum L.  
Landrace. 10276; BG1671. Collected in Mexico. De arbol type.

PI 594125. Capsicum annuum L.  

PI 594126. Capsicum annuum L.  
Uncertain. 10270; BG1817. Collected in Tamaulipas, Mexico. Piquin type.

The following were collected by V. Zamudio. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.

PI 594127. Capsicum annuum L.  
Landrace. 10315; BG2604. Collected in Puebla, Mexico.

The following were collected by Jose Laborde, Guanajuato 117, Celaya, Guanajuato GTO 38040, Mexico. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.

PI 594128. Capsicum annuum L.  
Landrace. 10318; BG2724. Collected in Nayarit, Mexico.

PI 594129. Capsicum annuum L.  
Landrace. 10322; BG2729. Collected in Nayarit, Mexico.

PI 594130. Capsicum annuum L.  
Landrace. 10331; BG2764. Collected in Nayarit, Mexico.

PI 594131. Capsicum annuum L.  
Uncertain. 10335; BG2794. Collected in Nayarit, Mexico.

PI 594132. Capsicum annuum L.  
Uncertain. 10380; BG3302. Collected in Michoacan, Mexico.

PI 594133. Capsicum annuum L.  

The following were collected by M.M. Gonzalez, Sector Publico Agro. Y De Alimentacion, Inst. De Ciencia Y Tecnologia Agricolas, Avenida Reforma 8-60, Zona 9 Edificio, Guatemala. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.

PI 594134. Capsicum annuum L.  
The following were collected by T. W. Box, College of Natural Resources, Utah State University, Logan, Utah, United States. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.

PI 594135. Capsicum annuum L.

PI 594136. Capsicum baccatum L.
Wild. 20013; Vll-256-1. Collected in Hungary.

PI 594137. Capsicum baccatum L.
Landrace. 20024; Aji Blanco. Collected in Russian Federation.

PI 594138. Capsicum baccatum L.
Landrace. 20025; Aji Blanco. Collected in Russian Federation.

PI 594139. Capsicum chinense Jacq.
Landrace. 30034; Red Habanero. Collected in Belize. Habanero type.

PI 594140. Capsicum frutescens L.
Wild. 40007; SA 308. Collected in Bolivia.

PI 594141. Capsicum eximium Hunz.

Unknown source. Received 05/01/1996.
PI 594142. Glycine max (L.) Merr.

The following were donated by T.E. Carter, USDA, ARS, North Carolina State University, 3127 Ligon Street Box 7631, Raleigh, North Carolina 27695-7631, United States; S. Miyazaki, Natl. Inst. of Agrobiological Resources, Kannondai, Tsukuba, Ibaraki, Japan. Received 05/01/1996.

PI 594143. Glycine max (L.) Merr.
  Cultivated. Pureline. 33076; NIAR 00033076; Aki Sengoku; SY 9602001.

PI 594144. Glycine max (L.) Merr.
  Cultivated. Pureline. 33205; NIAR 00033205; Akishirome; SY 9602002.

PI 594145. Glycine max (L.) Merr.
  Cultivated. Pureline. 33095; NIAR 00033095; Akiyoshi; SY 9602003.

PI 594146. Glycine max (L.) Merr.
  Cultivated. Pureline. 30955; NIAR 00030955; Ani; SY 9602004.

PI 594147. Glycine max (L.) Merr.
  Cultivated. Pureline. 33099; NIAR 00033099; Aso Aogari; SY 9602005.

PI 594148. Glycine max (L.) Merr.
  Cultivated. Pureline. 33069; NIAR 00033069; Aso Masari; SY 9602006.

PI 594149. Glycine max (L.) Merr.
  Cultivated. Pureline. 33172; NIAR 00033172; Aso Musume; SY 9602007.

PI 594150. Glycine max (L.) Merr.
  Cultivated. Pureline. 31522; NIAR 00031522; Aze Minori; SY 9602008.

PI 594151. Glycine max (L.) Merr.
  Cultivated. Pureline. 31753; NIAR 00031753; Bon Minori; SY 9602009.

PI 594152. Glycine max (L.) Merr.
  Cultivated. Pureline. 32766; NIAR 00032766; Cha Sengoku 81; SY 9602010.

PI 594153. Glycine max (L.) Merr.
  Cultivated. Pureline. 33171; NIAR 00033171; Chizuka Ibaraki 1*; SY 9602011.

PI 594154. Glycine max (L.) Merr.
  Cultivated. Pureline. 30669; NIAR 00030669; Chougetsu; SY 9602012.

PI 594155. Glycine max (L.) Merr.
  Cultivated. Pureline. 31482; NIAR 00031482; Choutan; SY 9602013.

PI 594156. Glycine max (L.) Merr.
  Cultivated. Pureline. 30540; NIAR 00030540; Chusei Hadaka; SY 9602014.

PI 594157. Glycine max (L.) Merr.
  Cultivated. Pureline. 32675; NIAR 00032675; Chuu Teppou; SY 9602015.
PI 594158. Glycine max (L.) Merr.
Cultivated. Pureline. 54756; NIAR 00054756; Chuusei Hikarikoru; SY 9602016.

PI 594159. Glycine max (L.) Merr.
Cultivated. Pureline. 30949; NIAR 00030949; Daruma Masari; SY 9602017.

PI 594160. Glycine max (L.) Merr.
Cultivated. Pureline. 31360; NIAR 00031360; Dewa Musume; SY 9602018.

PI 594161. Glycine max (L.) Merr.
Cultivated. Pureline. 32237; NIAR 00032237; Enrei; SY 9602019.

PI 594162. Glycine max (L.) Merr.
Cultivated. Pureline. 33018; NIAR 00033018; Fuji Musume; SY 9602020.

PI 594163. Glycine max (L.) Merr.
Cultivated. Pureline. 32542; NIAR 00032542; Fuji Otome; SY 9602021.

PI 594164. Glycine max (L.) Merr.
Cultivated. Pureline. 32235; NIAR 00032235; Fujimijiro; SY 9602022.

PI 594165. Glycine max (L.) Merr.
Cultivated. Pureline. 32540; NIAR 00032540; Fukumejiro; SY 9602023.

PI 594166. Glycine max (L.) Merr.
Cultivated. Pureline. 30628; NIAR 00030628; Fukunagaha; SY 9602024.

PI 594167. Glycine max (L.) Merr.
Cultivated. Pureline. 31361; NIAR 00031361; Fukushirome (Touhoku 41); SY 9602025.

PI 594168. Glycine max (L.) Merr.
Cultivated. Pureline. 33204; NIAR 00033204; Fukuyutaka; SY 9602026.

PI 594169. Glycine max (L.) Merr.
Cultivated. Pureline. 31463; NIAR 00031463; Fusanari; SY 9602027.

PI 594170. Glycine max (L.) Merr.
Cultivated. Pureline. 30957; NIAR 00030957; Geden Shirazu; SY 9602028.

PI 594171. Glycine max (L.) Merr.
Cultivated. Pureline. 30958; NIAR 00030958; Geden Shirazu 1; SY 9602029.

PI 594172. Glycine max (L.) Merr.
Cultivated. Pureline. 33154; NIAR 00033154; Gogaku; SY 9602030.

PI 594173. Glycine max (L.) Merr.
Cultivated. Pureline. 32078; NIAR 00032078; Hanayome Ibaraki 1; SY 9602031.

PI 594174. Glycine max (L.) Merr.
Cultivated. Pureline. 31196; NIAR 00031196; Hato Goroshi 12; SY 9602032.
PI 594175. Glycine max (L.) Merr.  
Cultivated. Pureline. 30952; NIAR 00030952; Hatsukari; SY 9602033.

PI 594176. Glycine max (L.) Merr.  
Cultivated. Pureline. 32983; NIAR 00032983; Higo Musume; SY 9602034.

PI 594177. Glycine max (L.) Merr.  
Cultivated. Pureline. 74536; NIAR 00074536; Himeshirazu; SY 9602035.

PI 594178. Glycine max (L.) Merr.  
Cultivated. Pureline. 30636; NIAR 00030636; Himeyutaka; SY 9602036.

PI 594179. Glycine max (L.) Merr.  
Cultivated. Pureline. 30486; NIAR 00030486; Hokkai Hadaka; SY 9602037.

PI 594180. Glycine max (L.) Merr.  
Cultivated. Pureline. 30484; NIAR 00030484; Hon Iku 65; SY 9602038.

PI 594181. Glycine max (L.) Merr.  
Cultivated. Pureline. 33073; NIAR 00033073; Hougyoku; SY 9602039.

PI 594182. Glycine max (L.) Merr.  
Cultivated. Pureline. 32131; NIAR 00032131; Houjaku; SY 9602040.

PI 594183. Glycine max (L.) Merr.  
Cultivated. Pureline. 30499; NIAR 00030499; Hourai; SY 9602041.

PI 594184. Glycine max (L.) Merr.  
Cultivated. Pureline. 74159; NIAR 00074159; Hourei; SY 9602042.

PI 594185. Glycine max (L.) Merr.  
Cultivated. Pureline. 33173; NIAR 00033173; Hyuuga; SY 9602043.

PI 594186. Glycine max (L.) Merr.  
Cultivated. Pureline. 30992; NIAR 00030992; Iwate 1*; SY 9602044.

PI 594187. Glycine max (L.) Merr.  
Cultivated. Pureline. 31239; NIAR 00031239; Iwate 2; SY 9602045.

PI 594188. Glycine max (L.) Merr.  
Cultivated. Pureline. 30990; NIAR 00030990; Iwate Yagi 1; SY 9602046.

PI 594189. Glycine max (L.) Merr.  
Cultivated. Pureline. 32868; NIAR 00032868; Iyo Daizu; SY 9602047.

PI 594190. Glycine max (L.) Merr.  
Cultivated. Pureline. 30511; NIAR 00030511; Karafuto 1; SY 9602048.

PI 594191. Glycine max (L.) Merr.  
Cultivated. Pureline. 31533; NIAR 00031533; Kariha Takiya; SY 9602049.

PI 594192. Glycine max (L.) Merr.  
Cultivated. Pureline. 30478; NIAR 00030478; Karikachi; SY 9602050.

PI 594193. Glycine max (L.) Merr.
Cultivated. Pureline. 31329; NIAR 00031329; Karumai; SY 9602051.

PI 594194. Glycine max (L.) Merr.
Cultivated. Pureline. 31763; NIAR 00031763; Kimusume Ibaraki 1; SY 9602052.

PI 594195. Glycine max (L.) Merr.
Cultivated. Pureline. 30703; NIAR 00030703; Kingen; SY 9602053.

PI 594196. Glycine max (L.) Merr.
Cultivated. Pureline. Kinshu (Spec.); SY 9602054.

PI 594197. Glycine max (L.) Merr.
Cultivated. Pureline. 30554; NIAR 00030554; Kitahomare; SY 9602055.

PI 594198. Glycine max (L.) Merr.
Cultivated. Pureline. 30637; NIAR 00030637; Kitakomachi; SY 9602056.

PI 594199. Glycine max (L.) Merr.
Cultivated. Pureline. 30482; NIAR 00030482; Kitami Nagaha; SY 9602057.

PI 594200. Glycine max (L.) Merr.
Cultivated. Pureline. 30497; NIAR 00030497; Kitami Shiro; SY 9602058.

PI 594201. Glycine max (L.) Merr.
Cultivated. Pureline. 30530; NIAR 00030530; Kitamusume; SY 9602059.

PI 594202. Glycine max (L.) Merr.
Cultivated. Pureline. 31234; NIAR 00031234; Kizukuri Zairai; SY 9602060.

PI 594203. Glycine max (L.) Merr.
Cultivated. Pureline. 33016; NIAR 00033016; Kogane Daizu; SY 9602061.

PI 594204. Glycine max (L.) Merr.
Cultivated. Pureline. 30513; NIAR 00030513; Kogane Jiro; SY 9602062.

PI 594205. Glycine max (L.) Merr.
Cultivated. Pureline. 31766; NIAR 00031766; Kokeshi Jiro; SY 9602063.

PI 594206. Glycine max (L.) Merr.
Cultivated. Pureline. 33673; NIAR 00033673; Kokuiku 44; SY 9602064.

PI 594207. Glycine max (L.) Merr.
Cultivated. Pureline. 30627; NIAR 00030627; Komamusume; SY 9602065.

PI 594208. Glycine max (L.) Merr.
Cultivated. Pureline. 74956; NIAR 00074956; Kosuzu; SY 9602066.

PI 594209. Glycine max (L.) Merr.
Cultivated. Pureline. 31458; NIAR 00031458; Kou 103*; SY 9602067.

PI 594210. Glycine max (L.) Merr.
Cultivated. Pureline. 30657; NIAR 00030657; Koshurei 235; SY 9602068.

PI 594211. Glycine max (L.) Merr.
Cultivated. Pureline. 30737; NIAR 00030737; Kuma; SY 9602069.

**PI 594212. Glycine max** (L.) Merr.
Cultivated. Pureline. 32346; NIAR 00032346; Kuro Daizu; SY 9602070.

**PI 594213. Glycine max** (L.) Merr.
Cultivated. Pureline. 33127; NIAR 00033127; Kuro Sengoku; SY 9602071.

**PI 594214. Glycine max** (L.) Merr.
Cultivated. Pureline. 33565; NIAR 00033565; Mansoukin; SY 9602072.

**PI 594215. Glycine max** (L.) Merr.
Cultivated. Pureline. 32977; NIAR 00032977; Matsuura; SY 9602073.

**PI 594216. Glycine max** (L.) Merr.
Cultivated. Pureline. Mikawashima (Spec.); SY 9602074.

**PI 594217. Glycine max** (L.) Merr.
Cultivated. Pureline. 30449; NIAR 00030449; Misao; SY 9602075.

**PI 594218. Glycine max** (L.) Merr.
Cultivated. Pureline. 32231; NIAR 00032231; Misuzu Daizu; SY 9602076.

**PI 594219. Glycine max** (L.) Merr.
Cultivated. Pureline. 32673; NIAR 00032673; Miyagi Oojiro; SY 9602077.

**PI 594220. Glycine max** (L.) Merr.
Cultivated. Pureline. 31029; NIAR 00031029; Miyagi Shirome; SY 9602078.

**PI 594221. Glycine max** (L.) Merr.
Cultivated. Pureline. 31762; NIAR 00031762; Miyashiro*; SY 9602079.

**PI 594222. Glycine max** (L.) Merr.
Cultivated. Pureline. 30979; NIAR 00030979; Mutsu Mejiro; SY 9602080.

**PI 594223. Glycine max** (L.) Merr.
Cultivated. Pureline. 30981; NIAR 00030981; Mutsu Shiratama; SY 9602081.

**PI 594224. Glycine max** (L.) Merr.
Cultivated. Pureline. 30485; NIAR 00030485; Nagaha Jiro; SY 9602082.

**PI 594225. Glycine max** (L.) Merr.
Cultivated. Pureline. 32048; NIAR 00032048; Nagano 1; SY 9602083.

**PI 594226. Glycine max** (L.) Merr.
Cultivated. Pureline. 32649; NIAR 00032649; Nakasennari; SY 9602084.

**PI 594227. Glycine max** (L.) Merr.
Cultivated. Pureline. 31357; NIAR 00031357; Nanbu Shirome; SY 9602085.

**PI 594228. Glycine max** (L.) Merr.
Cultivated. Pureline. 31208; NIAR 00031208; Nangun Takedate; SY 9602086.

**PI 594229. Glycine max** (L.) Merr.
Cultivated. Pureline. 32232; NIAR 00032232; Nasu Shirome; SY 9602087.
PI 594230. Glycine max (L.) Merr.
Cultivated. Pureline. 32623; NIAR 00032623; Nattou Kotsu; SY 9602088.

PI 594231. Glycine max (L.) Merr.
Cultivated. Pureline. 30818; NIAR 00030818; Nema Shirazu; SY 9602089.

PI 594232. Glycine max (L.) Merr.
Cultivated. Pureline. 31461; NIAR 00031461; Nezumi Saya; SY 9602090.

PI 594233. Glycine max (L.) Merr.
Cultivated. Pureline. 32278; NIAR 00032278; Nourin 1*; SY 9602091.

PI 594234. Glycine max (L.) Merr.
Cultivated. Pureline. 32020; NIAR 00032020; Nourin 2; SY 9602092.

PI 594235. Glycine max (L.) Merr.
Cultivated. Pureline. 32020; NIAR 00032020; Nourin 2 &; SY 9602093.

PI 594236. Glycine max (L.) Merr.
Cultivated. Pureline. 32279; NIAR 00032279; Nourin 3*; SY 9602094.

PI 594237. Glycine max (L.) Merr.
Cultivated. Pureline. 30947; NIAR 00030947; Nourin 4; SY 9602095.

PI 594238. Glycine max (L.) Merr.
Cultivated. Pureline. 30947; NIAR 00030947; Nourin 4 &; SY 9602096.

PI 594239. Glycine max (L.) Merr.
Cultivated. Pureline. 30948; NIAR 00030948; Nourin 5*; SY 9602097.

PI 594240. Glycine max (L.) Merr.
Cultivated. Pureline. 32184; NIAR 00032184; Ogura Daizu; SY 9602098.

PI 594241. Glycine max (L.) Merr.
Cultivated. Pureline. 33041; NIAR 00033041; Oka Daizu; SY 9602099.

PI 594242. Glycine max (L.) Merr.
Cultivated. Pureline. 31754; NIAR 00031754; Oku Mejiro; SY 9602100.

PI 594243. Glycine max (L.) Merr.
Cultivated. Pureline. 31212; NIAR 00031212; Oku Shirome; SY 9602101.

PI 594244. Glycine max (L.) Merr.
Cultivated. Pureline. 30515; NIAR 00030515; Okuhara 1+; SY 9602102.

PI 594245. Glycine max (L.) Merr.
Cultivated. Pureline. 30515; NIAR 00030515; Okuhara 1-B; SY 9602103.

PI 594246. Glycine max (L.) Merr.
Cultivated. Pureline. 31771; NIAR 00031771; Oni Hadaka Sai 1; SY 9602104.

PI 594247. Glycine max (L.) Merr.
Cultivated. Pureline. 30936; NIAR 00030936; Oodate 1 (Take 16)*; SY 9602105.
PI 594248. Glycine max (L.) Merr.  
Cultivated. Pureline. 33044; NIAR 00033044; Ooita Aki Daizu 2; SY 9602106.

PI 594249. Glycine max (L.) Merr.  
Cultivated. Pureline. 31058; NIAR 00031058; Oojiro 1; SY 9602107.

PI 594250. Glycine max (L.) Merr.  
Cultivated. Pureline. 76831; NIAR 00076831; Ootsuru; SY 9602108.

PI 594251. Glycine max (L.) Merr.  
Cultivated. Pureline. 30517; NIAR 00030517; Ooyachi 2; SY 9602109.

PI 594252. Glycine max (L.) Merr.  
Cultivated. Pureline. 33153; NIAR 00033153; Orihime; SY 9602110.

PI 594253. Glycine max (L.) Merr.  
Cultivated. Pureline. 30492; NIAR 00030492; Oo Shoume; SY 9602111.

PI 594254. Glycine max (L.) Merr.  
Cultivated. Pureline. 33564; NIAR 00033564; Ouhoushu; SY 9602112.

PI 594255. Glycine max (L.) Merr.  
Cultivated. Pureline. 30926; NIAR 00030926; Ouu 13; SY 9602113.

PI 594256. Glycine max (L.) Merr.  
Cultivated. Pureline. 30819; NIAR 00030819; Raiden; SY 9602114.

PI 594257. Glycine max (L.) Merr.  
Cultivated. Pureline. 31149; NIAR 00031149; Raikou; SY 9602115.

PI 594258. Glycine max (L.) Merr.  
Cultivated. Pureline. 30917; NIAR 00030917; Rikuu 27; SY 9602116.

PI 594259. Glycine max (L.) Merr.  
Cultivated. Pureline. 31503; NIAR 00031503; Sado Mame; SY 9602117.

PI 594260. Glycine max (L.) Merr.  
Cultivated. Pureline. 33017; NIAR 00033017; Sayohime; SY 9602118.

PI 594261. Glycine max (L.) Merr.  
Cultivated. Pureline. 31342; NIAR 00031342; Shika 4; SY 9602119.

PI 594262. Glycine max (L.) Merr.  
Cultivated. Pureline. 31451; NIAR 00031451; Shin 1; SY 9602120.

PI 594263. Glycine max (L.) Merr.  
Cultivated. Pureline. 31452; NIAR 00031452; Shin 3; SY 9602121.

PI 594264. Glycine max (L.) Merr.  
Cultivated. Pureline. 31750; NIAR 00031750; Shin Mejiro; SY 9602122.

PI 594265. Glycine max (L.) Merr.  
Cultivated. Pureline. 30643; NIAR 00030643; Shinroku; SY 9602123.
PI 594266. Glycine max (L.) Merr.
Cultivated. Pureline. 32943; NIAR 00032943; Shiro Daizu 3; SY 9602124.

PI 594267. Glycine max (L.) Merr.
Cultivated. Pureline. 32299; NIAR 00032299; Shiro Hachikoku 2; SY 9602125.

PI 594268. Glycine max (L.) Merr.
Cultivated. Pureline. 31220; NIAR 00031220; Shiro Higo; SY 9602126.

PI 594269. Glycine max (L.) Merr.
Cultivated. Pureline. 32543; NIAR 00032543; Shiro Sennari; SY 9602127.

PI 594270. Glycine max (L.) Merr.
Cultivated. Pureline. 30489; NIAR 00030489; Shiro Tsuru No Ko; SY 9602128.

PI 594271. Glycine max (L.) Merr.
Cultivated. Pureline. 31172; NIAR 00031172; Shirobana 1; SY 9602129.

PI 594272. Glycine max (L.) Merr.
Cultivated. Pureline. 31138; NIAR 00031138; Shiroge 9; SY 9602130.

PI 594273. Glycine max (L.) Merr.
Cultivated. Pureline. 31768; NIAR 00031768; Shirohana Sai 1; SY 9602131.

PI 594274. Glycine max (L.) Merr.
Cultivated. Pureline. 32236; NIAR 00032236; Shiromeuyutaka; SY 9602132.

PI 594275. Glycine max (L.) Merr.
Cultivated. Pureline. 30465; NIAR 00030465; Shirosaya; SY 9602133.

PI 594276. Glycine max (L.) Merr.
Cultivated. Pureline. 33031; NIAR 00033031; Shirosaya 1; SY 9602134.

PI 594277. Glycine max (L.) Merr.
Cultivated. Pureline. 30693; NIAR 00030693; Shirosota; SY 9602135.

PI 594278. Glycine max (L.) Merr.
Cultivated. Pureline. 32234; NIAR 00032234; Shirotae; SY 9602136.

PI 594279. Glycine max (L.) Merr.
Cultivated. Pureline. 30479; NIAR 00030479; Shisei; SY 9602137.

PI 594280. Glycine max (L.) Merr.
Cultivated. Pureline. 32250; NIAR 00032250; Shoufuku; SY 9602138.

PI 594281. Glycine max (L.) Merr.
Cultivated. Pureline. 32389; NIAR 00032389; Souga Zairai; SY 9602139.

PI 594282. Glycine max (L.) Merr.
Cultivated. Pureline. 30638; NIAR 00030638; Suzuhime; SY 9602140.

PI 594283. Glycine max (L.) Merr.
Cultivated. Pureline. 74953; NIAR 00074953; Suzukari; SY 9602141.

PI 594284. Glycine max (L.) Merr.
Cultivated. Pureline. 74285; NIAR 00074285; Suzumaru; SY 9602142.

PI 594285. Glycine max (L.) Merr.
Cultivated. Pureline. 74952; NIAR 00074952; Suzuyutaka; SY 9602143.

PI 594286. Glycine max (L.) Merr.
Cultivated. Pureline. 74955; NIAR 00074955; Tachikogane; SY 9602144.

PI 594287. Glycine max (L.) Merr.
Cultivated. Pureline. 74158; NIAR 00074158; Tachinagaha; SY 9602145.

PI 594288. Glycine max (L.) Merr.
Cultivated. Pureline. 31752; NIAR 00031752; Tachi Suzunari; SY 9602146.

PI 594289. Glycine max (L.) Merr.
Cultivated. Pureline. 31554; NIAR 00031554; Takiya; SY 9602147.

PI 594290. Glycine max (L.) Merr.
Cultivated. Pureline. 32233; NIAR 00032233; Tamahikari; SY 9602149.

PI 594292. Glycine max (L.) Merr.
Cultivated. Pureline. 32650; NIAR 00032650; Tamahomare; SY 9602150.

PI 594293. Glycine max (L.) Merr.
Cultivated. Pureline. 31749; NIAR 00031749; Tamamusume; SY 9602151.

PI 594294. Glycine max (L.) Merr.
Cultivated. Pureline. 30999; NIAR 00030999; Tamatsukuri; SY 9602152.

PI 594295. Glycine max (L.) Merr.
Cultivated. Pureline. 32674; NIAR 00032674; Tanrei; SY 9602153.

PI 594296. Glycine max (L.) Merr.
Cultivated. Pureline. 30638; NIAR 00030638; Tokachi Kuro; SY 9602154.

PI 594297. Glycine max (L.) Merr.
Cultivated. Pureline. 30516; NIAR 00030516; Tokachi Nagaha; SY 9602155.

PI 594298. Glycine max (L.) Merr.
Cultivated. Pureline. 30480; NIAR 00030480; Tokachi Shiro; SY 9602156.

PI 594299. Glycine max (L.) Merr.
Cultivated. Pureline. 30532; NIAR 00030532; Toshi Dai 7910; SY 9602157.

PI 594300. Glycine max (L.) Merr.
Cultivated. Pureline. 58916; NIAR 00058916; Toyokomachi; SY 9602158.

PI 594301. Glycine max (L.) Merr.
Cultivated. Pureline. 30641; NIAR 00030641; Toyomusume; SY 9602159.
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PI 594320. Glycine max (L.) Merr.
Cultivated. Pureline. 30630; NIAR 00030630; Yuuzuru; SY 9602178.

The following were developed by Harry C. Minor, University of Missouri-Columbia, Department of Agronomy, 214 Waters Hall, Columbia, Missouri 65211, United States; William Stegmeier, Fort Hays Experiment Station, 1232 240th Avenue, Hays, Kansas 67601, United States; Charlie L. Rife, Kansas State University, Department of Agronomy, 2004 Throckmorton Plant Science Center, Manhattan, Kansas 66506-5501, United States; Dick L. Auld, Texas Tech University, Department of Plant and Soil Sciences, P.O. Box 4122, Lubbock, Texas 79409-2122, United States; David D. Baltensperger, University of Nebraska, Panhandle Res. & Ext. Center, 4502 Avenue I, Scottsbluff, Nebraska 69361-4939, United States; Duane L. Johnson, Colorado State University, Dept. of Agronomy, Fort Collins, Colorado 80523, United States; W.F. Heer, Kansas State University, Kansas Agric. Exp. Station, Dept. of Agronomy, Manhattan, Kansas, United States; H.D. Sunderman, Northwest Res.-Ext. Center, Kansas State Univ., Hutchinson, Kansas 67501, United States; J.P. Salgado, Kansas State University, Dept. of Agronomy, Manhattan, Kansas 66506, United States. Received 04/19/1996.

PI 594321. Brassica napus L.
Breeding. Pureline. KS3579. GP-5. Pedigree - WRER12 / Jet Neuf. Winter rapeseed with significantly improved winter survival for conditions of the Great Plains. During the 1993-94 growing season, averaged 88% winter survival compared with 30% for Ceres. During 1994-95, averaged 90% winter survival compared with 81% for Ceres. Tested throughout the Great Plains and has either been the best surviving line or has not been significantly different. Seed has low erucic acid and high glucosinolate contents. Average 10cm shorter, 6 days earlier to 50% bloom date, 85% of the yield, and 1% less oil content compared with Ceres.

The following were developed by Jim Myers, University of Idaho, Research & Extension Center, 3793 North, 3600 East, Kimberly, Idaho 83341, United States; M.W. Lancaster, University of Idaho, Kimberly Res. and Ext. Ctr., 3793 North 3600 East, Kimberly, Idaho 83341, United States; K. Stewart-Williams, University of Idaho, Kimberly Res. and Ext. Ctr., 3793 North 3600 East, Kimberly, Idaho 83341, United States; J.J. Kolar, University of Idaho, Kimberly Res. and Ext. Ctr., 3793 North 3600 East, Kimberly, Idaho 83341, United States; R.E. Hayes, University of Idaho, Kimberly Res. and Ext. Ctr., 3793 North 3600 East, Kimberly, Idaho 83341, United States. Received 04/19/1996.

PI 594322. Phaseolus vulgaris L.

PI 594323. Phaseolus vulgaris L.

PI 594324. Phaseolus vulgaris L.
Cultivar. Pureline. "UI 911"; 83B11. CV-136. Pedigree - Midnight/07055. Growth habit type II, 36 cm average plant height with 40 cm vine. Seed size 18.8 gm 100 seed-1. 1 gene resistance to BCMV. Moderately resistant to Beet Curly Top Virus. Resistant to midwest rust strains, escapes white mold infection and is moderately susceptible to common blight. Also moderately resistant to Northwest root rot complex. 93 days to maturity where check Midnight matures in 100 d. Flowers, stems, and pods purple at maturity.

The following were developed by Jim Beaver, University of Puerto Rico, Mayaguez Camp, Department of Agronomy & Soils, P. O. Box 5000, Mayaguez, Puerto Rico; James R. Steadman, University of Nebraska, Department of Plant Pathology, 406 Plant Science Hall, Lincoln, Nebraska 68583, United States; Matt Silbernagel, USDA, ARS, Vegetable Crop Production, IAREC, P.O. Box 30, Prosser, Washington 99350, United States; G.F. Freytag, USDA-ARS, National Seed Storage Laboratory, 1111 South Mason Street, Fort Collins, Colorado 80521-4500, United States; Phil Miklas, USDA, ARS, Irrigated Agric. Research & Extension Ctr., 24106 North Bunn Road, Prosser, Washington 99350, United States. Received 04/24/1996.

PI 594325. Phaseolus vulgaris L.
Breeding. Pureline. TARS-VR-1s. GP-173. Pedigree - BAT338//IVT 7233/IVT 7214/3/TARS-253A/4/L-227-1. Bean common mosaic virus (BCMV) resistant navy bean. Combines dominant and recessive bc-3 resistance genes to BCMV with high yield potential, semi-upright, short-vine to long-vine growth habits (Types 2a and 2b), and resistance to bean rust (Uromyces appendiculatus). Yield potential, plant architecture (growth habit), seed quality, and rust resistance superior to the moderate yield potential, prostrate Type III growth habit, elongated and flattened kidney-shaped seed, and rust susceptibility of the white-seeded dry bean lines TARS-IM-1 and TARM-IM-2 released in 1986 with the same bc-3-protected I gene resistance to BCMV.

PI 594326. Phaseolus vulgaris L.
Breeding. Pureline. TARS-VR-7s. GP-174. Pedigree - BAT338//IVT 7233/IVT 7214/3/TARS-144B/4/L-227-1. Bean common mosaic virus (BCMV) resistant navy bean. Combines dominant and recessive bc-3 resistance genes to BCMV with high yield potential, semi-upright, short-vine to long-vine growth habits (Types 2a and 2b), and resistance to bean rust (Uromyces appendiculatus). Yield potential, plant architecture (growth habit), seed quality, and rust resistance superior to the moderate yield potential, prostrate Type III growth habit, elongated and flattened kidney-shaped seed, and rust susceptibility of the white-seeded dry bean lines TARS-IM-1 and TARM-IM-2 released in 1986 with the same bc-3-protected I gene resistance to BCMV.
PI 594327. Phaseolus vulgaris L.
Breeding. Pureline. TARS-VR-8s. GP-175. Pedigree - BAT338//IVT 7233/IVT 7214/3/L-227-1/4/L-227-1. Bean common mosaic virus (BCMV) resistant navy bean. Combines dominant and recessive bc-3 resistance genes to BCMV with high yield potential, semi-upright, short-vine to long-vine growth habits (Types 2a and 2b), and resistance to bean rust (Uromyces appendiculatus). Yield potential, plant architecture (growth habit), seed quality, and rust resistance superior to the moderate yield potential, prostrate Type III growth habit, elongated and flattened kidney-shaped seed, and rust susceptibility of the white-seeded dry bean lines TARS-IM-1 and TARM-IM-2 released in 1986 with the same bc-3-protected I gene resistance to BCMV.

The following were developed by K. B. Singh, Int. Center For Agricultural Research in the Dry Areas, P.O. Box 5466, Aleppo, Syria; M. C. Saxena, Int. Center for Agricultural Research in the Dry Areas, P.O. Box 5466, Aleppo, Syria; R.S. Malhotra, Int. Center for Agricultural Research in the Dry Areas, P.O. Box 5466, Aleppo, Syria. Received 05/08/1996.

PI 594328. Cicer arietinum L.
Breeding. FLIP91-178C. GP-168. Pedigree - ILC136/FLIP84-18C//FLIP84-78C. Late flowering and maturity. Plant height 34 cm. Growth habit semi-erect. Compound leaves. 100 seed weight, 40 g. Seed color beige, shape rams-head, surface owl, seed protein content 18.5%. Resistant to fusarium wilt (Fusarium oxysporum f.sp. ciceri), ascochyta blight (Ascochyta rabiei), and tolerant to cold. Susceptible to leaf miner (Liriomyza cicerina), bruchids (Callosobruchus chinensis), and cyst nematode (Heterodera ciceri). Resistant to iron deficiency and pod dehiscence.

PI 594329. Cicer arietinum L.
Breeding. FLIP93-53C. GP-169. Pedigree - UC27/FLIP84-78C. Early flowering and maturity. Plant height > 50 cm. Growth habit semi-erect. Compound leaves. 100 seed weight, 33 g. Seed color beige, shape rams-head, surface owl, seed protein content 19.6%. Resistant to fusarium wilt (Fusarium oxysporum f.sp. ciceri), ascochyta blight (Ascochyta rabiei), and tolerant to cold. Susceptible to leaf miner (Liriomyza cicerina), bruchids (Callosobruchus chinensis), and cyst nematode (Heterodera ciceri). Resistant to iron deficiency and pod dehiscence.

PI 594330. Cicer arietinum L.
Breeding. FLIP93-98C. GP-170. Pedigree - UC27/FLIP84-78C. Early flowering and maturity. Plant height > 50 cm. Growth habit semi-erect. Compound leaves. 100 seed weight, 36 g. Seed color beige, shape rams-head, surface owl, seed protein content 19.8%. Resistant to fusarium wilt (Fusarium oxysporum f.sp. ciceri), ascochyta blight (Ascochyta rabiei), and tolerant to cold. Susceptible to leaf miner (Liriomyza cicerina), bruchids (Callosobruchus chinensis), and cyst nematode (Heterodera ciceri). Resistant to iron deficiency and pod dehiscence.
The following were developed by K. B. Singh, Int. Center For Agricultural Research in the Dry Areas, P.O. Box 5466, Aleppo, Syria; M. C. Saxena, Int. Center for Agricultural Research in the Dry Areas, P.O. Box 5466, Aleppo, Syria; S. Weigand, Int. Center for Agricultural Research in the Dry Areas, Germplasm Program, P.O. Box 5466, Aleppo, Syria. Received 05/08/1996.

PI 594331. Cicer echinospermum P. Davis
Breeding. Population. ILWC 39. GP-171. Collected in Turkey. 20km east of Siverek, Diyarbakir. Pedigree - Wild collected accession from Turkey. Flowering and maturity late. Plant height 4.5cm. Growth habit prostrate. Compound leaves with pink flowers. 100-seed weight 11.4g. Seed color dark brown, shape angular with spiny seed coat. Seed protein content 19.1%. Resistant to fusarium wilt (Fusarium oxysporum), leaf miner (Liriomyza cicerina), and bruchids (Callosobruchus chinensis). Susceptible to ascochyta blight (Ascochyta rabiei) and cyst nematode (Heterodera ciceri). Tolerant to cold. Susceptible to pod dehiscence.

PI 594332. Cicer echinospermum P. Davis
Breeding. Pureline. ILWC 181. GP-172. Collected in Turkey. South-east near Diyarbakir. Pedigree - Wild collected accession from Turkey. Flowering and maturity late. Plant height 6.5cm. Growth habit prostrate. Compound leaves with pink flowers. 100-seed weight 12.8g. Seed color dark brown, shape angular with spiny seed coat. Seed protein content 19%. Resistant to fusarium wilt (Fusarium oxysporum) and bruchids (Callosobruchus chinensis). Susceptible to ascochyta blight (Ascochyta rabiei), leaf miner (Liriomyza cicerina) and cyst nematode (Heterodera ciceri). Tolerant to cold. Susceptible to pod dehiscence.

The following were developed by New York State Agricultural Experiment Station, New York, United States. Donated by Bruce I. Reisch, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456-0462, United States. Received 03/1985.

PI 594333. Vitis hybrid
Uncertain. GVIT 27; Suffolk Red. Pedigree - Fredonia / Russian Seedless 136 (Black Monukka) Crossed in 1935. Selected in 1941. Cluster medium-large, long cylindrical, loose to scraggily when no ringing or gibberellin treatment applied. Berry size medium, round, skin bright red, attractive. Flesh melting, meaty, sweet, quality very good. Seedless, ripens early, before Delaware. Vine not sufficiently hardy for colder areas.

The following were developed by Francois Baco. Donated by Bruce I. Reisch, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456-0462, United States. Received 03/1985.

PI 594334. Vitis hybrid
Vine rampant, canes long. Leaves resemble V. riparia. Very good resistance to downy mildew, somewhat susceptible to powdery mildew. Buds out and blossoms very early. Must be pruned long to be productive. Growth cycle short. Best adapted to region of short growing season. Useful for arbor-type plantings. Wine highly colored, heavy, bitter, requires long age to improve.

The following were donated by Bruce I. Reisch, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456-0462, United States. Received 03/1985.

**PI 594335. Vitis hybrid**
Uncertain. GVIT 79; Teleki 5C. Pedigree - V. berlandieri / V. riparia. Female. Hungarian rootstock.

**PI 594336. Vitis hybrid**
Uncertain. GVIT 357; Seibel 29. Collected in France.

**PI 594337. Vitis hybrid**
Uncertain. GVIT 470; Einset Seedless.

**PI 594338. Vitis sp.**
Uncertain. GVIT 661; Dog Ridge.

**PI 594339. Vitis hybrid**
Uncertain. GVIT 860; Viognier.

The following were donated by USDA, ARS, University of California, National Germplasm Repository, Davis, California 95616, United States. Received 04/25/1988.

**PI 594340. Vitis hybrid**
Uncertain. GVIT 1068; Seibel 14664. Collected in France.

**PI 594341. Vitis hybrid**
Uncertain. GVIT 1069; Seibel 4986. Collected in France.

The following were donated by Bruce I. Reisch, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456-0462, United States. Received 02/01/1989.

**PI 594342. Vitis hybrid**
Uncertain. GVIT 1216; Early Red. Collected in China.

**PI 594343. Vitis hybrid**
Uncertain. GVIT 1217; Red Banana. Collected in China.

The following were donated by Charles Putensen, 1906 350th Street, Spencer, Iowa 51301-7456, United States. Received 11/28/1989.

**PI 594344. Vitis riparia** Michaux
The following were donated by R. Eibach, Bundesforschungsanstalt fur Rebenzucht un, 6741 Siebeldingen uber Landau/Pfalz, Geilweilerhof, Germany. Received 03/27/1990.

PI 594345. Vitis hybrid
Uncertain. GVIT 1379; Stepnyak.

PI 594346. Vitis hybrid
Uncertain. GVIT 1380; Karmrajat.

The following were donated by Herb C. Barrett, USDA, ARS, US Horticultural Research Laboratory, 2120 Camden Road, Orlando, Florida 32803, United States. Received 01/10/1992.

PI 594347. Vitis hybrid
Uncertain. GVIT 1442; Russian Seedless.

The following were donated by David Cain, Sun World, 16350 Driver Road, P.O. Box 80298, Bakersfield, California 93380-0298, United States. Received 01/16/1992.

PI 594348. Vitis sp.
Uncertain. GVIT 1467; C-166-043. Collected in China.

Unknown source. Received 02/02/1994.

PI 594349. Vitis hybrid
Uncertain. GVIT 1541.

The following were donated by Clay Weeks, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 03/13/1995.

PI 594350. Prunus cerasus L.
Uncertain. DPRU 23; GPRU 59.

PI 594351. Prunus cerasus L.
Uncertain. DPRU 29; GPRU 60.

The following were developed by Genecorp, Inc., United States. Received 05/08/1996.

PI 594352. Glycine max (L.) Merr.
Cultivar. "HT551STS". PVP 9600219.

PI 594353. Glycine max (L.) Merr.
Cultivar. "FFR439". PVP 9600220.
The following were developed by Pioneer Hi-Bred International, Inc., United States. Received 05/08/1996.

PI 594354. Sorghum bicolor (L.) Moench
Cultivar. "PHWIABQE". PVP 9600221.

PI 594355. Sorghum bicolor (L.) Moench
Cultivar. "PHBICGQF". PVP 9600222.

The following were developed by Pure-Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon 97032, United States. Received 05/08/1996.

PI 594356. Dactylis glomerata L.
Cultivar. "PST-850". PVP 9600223.

The following were developed by Cebeco Zaden B.V., Netherlands. Received 05/08/1996.

PI 594357. Pisum sativum L.
Cultivar. "ASTINA". PVP 9600224.

PI 594358. Pisum sativum L.
Cultivar. "DELTA". PVP 9600225.

PI 594359. Pisum sativum L.
Cultivar. "SWING". PVP 9600226.

PI 594360. Pisum sativum L.
Cultivar. "ESPACE". PVP 9600227.

The following were developed by Lofts Seed, Inc., United States. Received 05/08/1996.

PI 594361. Poa pratensis L.
Cultivar. "PRINCETON P-105". PVP 9600228.

The following were developed by Ferry-Morse Seed Company, United States. Received 05/08/1996.

PI 594362. Phaseolus vulgaris L.
Cultivar. "RHAPSODY". PVP 9600229.

PI 594363. Phaseolus vulgaris L.
Cultivar. "VALD'OR". PVP 9600230.

The following were developed by Svalof Weibull AB, Sweden. Received 05/08/1996.
PI 594364. Pisum sativum L. 
Cultivar. "CARNEVAL". PVP 9600231.

PI 594365. Pisum sativum L. 
Cultivar. "GRANDE". PVP 9600232.

PI 594366. Pisum sativum L. 
Cultivar. "HIGHLIGHT". PVP 9600233.

PI 594367. Pisum sativum L. 
Cultivar. "MAJORET". PVP 9600234.

The following were developed by USDA, NRCS, Big Flats Plant Materials Center, Box 360, RD #1, Rt. 352, Corning, New York 14830-0360, United States. Donated by Paul Salon, USDA, NRCS, Big Flats Plant Materials Center, Box 360A, Corning, New York 14830, United States. Received 05/15/1996.

PI 594368. Cephalanthus occidentalis L. 
Breeding. 9051750. Pedigree - Composite of seed collected from native stands. 9026820 Crawford Co., PA; 9026824 Mason Co., WV; 9028215 Wayne Co., NY; 9028620 Crawford Co., PA; and 9028621 Crawford Co., PA. For use in wetland situations, tolerant of periodic flooding. To be used on impoundment sites subject to fluctuating water levels, for food and cover for wildlife. Adapted to fine and coarse soils. Very tolerant of flooding. Area of adaptation New Brunswick to Florida, west to southern Minnesota, Arizona, and central California.

PI 594369. Cephalanthus occidentalis L. 
Breeding. 9051765. Pedigree - Self pollination of accession 9028621 collected from native stand in Crawford Co., PA. For use in wetland situations, tolerant of periodic flooding. To be used on impoundment sites subject to fluctuating water levels, for food and cover for wildlife. Adapted to fine and coarse soils. Very tolerant to flooding. Area of adaptation New Brunswick to Florida, west to southern Minnesota, Arizona, and central California.

PI 594370. Populus hybrid 
Cultivated. "SPIKE"; 9051487. Pedigree - Popular deltoides x P. nigra. (P. deltoides parent originated from seed grown from a U.S. Provenance trial grown in Belgium #S4-231, the origin is unknown. The P. nigra parent is from Wagenigen, Holland). Leaves delto rhomboid, apex finely acuminate, base straight or broadly cuneate on the long shoot of mature trees, upper surface yellowish-green, leaf margin coarsely serrate. Trunk long, straight, and cylindrical, crown relatively narrow and open with ascending slender branches. For use as windbreak and screens for farmstead. For biomass and fuel weed production. Adapted to sandy loam soils, and clay loam. Area of adaptation New Hampshire, to northern Florida, central Texas and West to Kansas.

PI 594371. Castanea pumila (L.) Miller 
Cultivated. 9051770. Pedigree - Synthetic of accessions 9002902 collected in Floyd Co., VA, 9002905 and 9002906 collected in Mercer Co., WV, and 2102068 collected in Bland Co., VA. For use as wildlife food and cover, and component of mitigation plantings for wildlife on a variety...
of disturbed sites. Adapted to sandy loam or clay soils. Area of adaptation Georgia to Texas and north to New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Missouri and most of Arkansas.

The following were developed by Robert E. Allan, USDA-ARS, Dept. of Crop & Soil Science, 209 Johnson Hall, Pullman, Washington 99164, United States. Received 05/15/1996.

PI 594372. Triticum aestivum L., nom. cons.
Breeding. Pureline. WA 7752; ARS 969; NSGC 6132. Pedigree - Tres/Madsen//Tres. Soft white winter wheat (club type). Semidwarf with awned compact spikes, midseason maturity, white straw and chaff. Kernels white, soft, short to mid-long, humped, germ small. Moderate resistance to strawbreaker foot rot, leaf rust, powdery mildew, and partial tolerance to Cephalosporium stripe. Contains HMW glutenin subunits of null (Glu 1A), 6 (Glu 1B), and 2+12 (Glu 1D). Club wheat milling, flour and baking quality rates satisfactory to excellent.

The following were developed by Seed Research of Oregon Inc.. Received 05/08/1996.

PI 594373. Festuca ovina var. glauca (Lam.) Koch
Cultivar. "SR 3200". PVP 9500302.

The following were donated by Phil Lindgren, Seed Research of Oregon, Inc., P.O. Box 1416, Corvallis, Oregon 97333, United States. Received 02/14/1996.

PI 594374. Agrostis canina L.
Cultivar. "SR 7200"; W6 17689. PVP 9500303.

The following were developed by John Bodger & Sons Company, United States. Received 05/08/1996.

PI 594375. Catharanthus roseus (L.) G. Don
Cultivar. "HEAT WAVE GRAPE". PVP 9600235.

PI 594376. Catharanthus roseus (L.) G. Don
Cultivar. "HEAT WAVE ORCHID". PVP 9600236.

PI 594377. Catharanthus roseus (L.) G. Don
Cultivar. "HEAT WAVE PEPPERMINT". PVP 9600237.

PI 594378. Catharanthus roseus (L.) G. Don
Cultivar. "HEAT WAVE PINK". PVP 9600238.

The following were developed by Campbell Soup Company, United States. Received 05/08/1996.

PI 594379. Capsicum annuum L.
PI 594380. Arachis hypogaea L.
   Cultivar. "FLAVOR RUNNER 458". PVP 9600242.

The following were developed by Asgrow Seed Company, United States. Received 05/08/1996.

PI 594381. Glycine max (L.) Merr.
   Cultivar. "A2247". PVP 9600244.

PI 594382. Glycine max (L.) Merr.
   Cultivar. "A2833". PVP 9600245.

PI 594383. Glycine max (L.) Merr.
   Cultivar. "A3244". PVP 9600246.

PI 594384. Glycine max (L.) Merr.

PI 594385. Glycine max (L.) Merr.
   Cultivar. "A3704". PVP 9600248.

PI 594386. Glycine max (L.) Merr.
   Cultivar. "A5848". PVP 9600249.

PI 594387. Glycine max (L.) Merr.
   Cultivar. "A5944". PVP 9600250.

The following were developed by Idaho Seed Bean Company, Inc., Idaho, United States. Received 05/08/1996.

PI 594388. Phaseolus vulgaris L.
   Cultivar. "ASPEN". PVP 9600251.

The following were developed by Asgrow Seed Company, United States. Received 05/08/1996.

PI 594389. Phaseolus vulgaris L.
   Cultivar. "CARLO". PVP 9600252.

PI 594390. Phaseolus vulgaris L.
   Cultivar. "NICELO". PVP 9600253.

PI 594391. Phaseolus vulgaris L.
   Cultivar. "ZODIAC". PVP 9600254.
The following were donated by Randall L. Nelson, USDA-ARS, 1101 West Peabody Drive, Room 180 EASB, Urbana, Illinois 61801, United States; Ruzhen Chang, Chinese Academy of Agricultural Sciences, Institute of Crop Germplasm Resources, Beijing, China. Received 05/10/1996.

PI 594392. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 11414; Wu he qi tou huang; SY 9605032.

PI 594393. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 11417; Shui niu pi; SY 9605033.

PI 594394. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 11425; 1012 Yuan huang; SY 9605034.

PI 594395. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 11458; Lu zhuang da hei dou; SY 9605035.

The following were developed by G.W. Pepin, Pickseed West, Inc., P.O. Box 888, Tangent, Oregon, United States; C.R. Funk, Hubbard Seed and Supply Company, P.O. Box 310, Hubbard, Oregon 97032, United States; R.E. Engel, Rutgers University, New Brunswick, New Jersey 08903, United States; W.K. Dickson, New Jersey Agr. Exp. Sta., Cook College, Rutgers University, Plant Science Department, New Brunswick, New Jersey 08903, United States. Donated by International Seeds Inc., P.O. Box 168, Halsey, Oregon 97348, United States. Received 1979.

PI 594396. Poa trivialis L.  
Cultivar. "SABRE". CV-18; PVP 7700104. Pedigree - Derived from 10 clones selected from close-cut lawns, tennis courts and golf course putting greens from in northeastern U.S. Produces denser turf with slower rate of vertical growth and darker green color than other roughstalk bluegrass. Rapid germination, good seedling vigor, excellent winterhardiness, tolerance of cool shade and wet soil, ability to grow at low temperatures and the lack of heat and drought tolerance characteristic of the species.

The following were donated by Randall L. Nelson, USDA-ARS, 1101 West Peabody Drive, Room 180 EASB, Urbana, Illinois 61801, United States; Ruzhen Chang, Chinese Academy of Agricultural Sciences, Institute of Crop Germplasm Resources, Beijing, China. Received 05/10/1996.

PI 594397. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 20047; 87-74; SY 9605424.

PI 594398. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 20049; 87-32; SY 9605425.

PI 594399. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 20051; 85-23-9; SY 9605426.

PI 594400. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 20053; 87-10; SY 9605427.
PI 594401. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20056; 88-35; SY 9605428.

PI 594402. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20058; 87-72-1; SY 9605429.

PI 594403. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20060; 85-125-1; SY 9605430.

PI 594404. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20062; 85-57; SY 9605431.

PI 594405. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20064; 86-36; SY 9605432.

PI 594406. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20067; 25-1; SY 9605433.

PI 594407. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20069; 32-25; SY 9605434.

PI 594408. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20074; He yin yi hao; SY 9605435.

PI 594409. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20076; 86-8-39; SY 9605436.

PI 594410. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20078; Liu yue zha; SY 9605437.

PI 594411. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20080; Wan dou yuan; SY 9605438.

PI 594412. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20084; Shi dian huang dou; SY 9605439.

PI 594413. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20088; Ba yue bai; SY 9605440.

PI 594414. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20100; Xiao li dou; SY 9605441.

PI 594415. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20130; Jiu yue xiao dou; SY 9605442.

PI 594416. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20137; Tang chi xiao huang dou; SY 9605443.

PI 594417. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20148; Tou tuo da dou; SY 9605444.

PI 594418. Glycine max (L.) Merr.
   Cultivated. Pureline. ZDD 20150; Ye xi xiao li huang; SY 9605445.

PI 594419. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20160; Cha zhuang huang dou; SY 9605446.

PI 594420. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20166; Niu mao huang; SY 9605447.

PI 594421. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20177; Da du huang dou; SY 9605448.

PI 594422. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20185; Yang guang huang dou; SY 9605449.

PI 594423. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20193; Dong yuan dou; SY 9605450.

PI 594424. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20196; Ai jiao huang; SY 9605451.

PI 594425. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20201; Xiao cao huang dou; SY 9605452.

PI 594426. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20221; Tie jiao huang; SY 9605453.

PI 594427. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20228; Ba yue mang; SY 9605454.

PI 594428. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20243; Bai hua qing; SY 9605455.

PI 594429. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20246; Feng wo qing; SY 9605456.

PI 594430. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20284; Guang qian qing dou; SY 9605457.

PI 594431. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20289; Chang pu qing dou; SY 9605458.

PI 594432. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20299; Zheng nong wan qing dou; SY 9605459.

PI 594433. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 20344; Hua yan quan dou; SY 9605460.

PI 594434. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12387; Xiao bai mao zao; SY 9605036.

PI 594435. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12400; Shi yue huang; SY 9605037.

PI 594436. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12423; Jiang se dou; SY 9605038.

PI 594437. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12846; Wan yuan ba yue dou; SY 9605039.
PI 594438. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12847; Tong jiang huang dou; SY 9605040.

PI 594439. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12856; Guang han liu yue huang; SY 9605041.

PI 594440. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12865; Chong qing qi yue huang; SY 9605042.

PI 594441. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12872; Qiong lai huang mao zi; SY 9605043.

PI 594442. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12887; Han yuan hong hua chi dou zi; SY 9605044.

PI 594443. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12893; Wan yuan tian kan dou; SY 9605045.

PI 594444. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12894; Shi fang ba jiao qi yue huang; SY 9605046.

PI 594445. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12902; Han yuan qian jin qing pi dou; SY 9605047.

PI 594446. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12903; Mei shan lu pi dou; SY 9605048.

PI 594447. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12906; Shi fang ba jiao cha dou; SY 9605049.

PI 594448. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12907; Guang han hei dou; SY 9605050.

PI 594449. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12917; Han yuan shuang xi you dou zi; SY 9605051.

PI 594450. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12921; Wen chuan qing pi dou; SY 9605052.

PI 594451. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 12998; Liu yue bao; SY 9605484.

PI 594452. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13012; Huang dou; SY 9605485.

PI 594453. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13029; Liu yue huang; SY 9605486.

PI 594454. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13036; Da huang dou; SY 9605487.
PI 594455. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13047; Bao ji mu dou; SY 9605488.

PI 594456. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13055; Xiao jin huang; SY 9605489.

PI 594457. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13078; Liu yue zao; SY 9605490.

PI 594458. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13079; Huang ke zi; SY 9605491.

PI 594459. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13085; Zao dou zi; SY 9605492.

PI 594460. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13102; Liu yue huang; SY 9605493.

PI 594461. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13108; Da bai shui dou; SY 9605494.

PI 594462. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13110; He dong huang dou; SY 9605495.

PI 594463. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13120; Ba jiao qi yue huang; SY 9605496.

PI 594464. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13131; Chun huang dou -2; SY 9605497.

PI 594465. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13154; Zao ji mu rou dou; SY 9605498.

PI 594466. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13172; Hua qiao hei dou; SY 9605499.

PI 594467. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13194; Zi pi dou; SY 9605500.

PI 594468. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13422; Chi dou zi; SY 9605053.

PI 594469. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13462; Huang ke zi; SY 9605054.

PI 594470. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13487; Zao dou zi; SY 9605055.

PI 594471. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13526; Da bai dou; SY 9605056.

PI 594472. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13569; He shao xiao huang ke; SY 9605057.
PI 594473. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13570; Da huang ke; SY 9605058.

PI 594474. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13571; Huang ke dou; SY 9605059.

PI 594475. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13573; Ping chuan houng dou-3; SY 9605060.

PI 594476. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13582; Xiao bai mao zao; SY 9605061.

PI 594477. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13595; Qing pi dou; SY 9605062.

PI 594478. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13598; Zao houng dou -2; SY 9605063.

PI 594479. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13599; Lu lan zi -1; SY 9605064.

PI 594480. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13600; Lu dou; SY 9605065.

PI 594481. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13601; Zao houng dou -2; SY 9605066.

PI 594482. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13602; Qing pi dou -1; SY 9605067.

PI 594483. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13605; Qing pi dou; SY 9605068.

PI 594484. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13607; Lu lan zi -1; SY 9605069.

PI 594485. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13615; Lu dou; SY 9605070.

PI 594486. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13618; Lu lan zi -2; SY 9605071.

PI 594487. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13622; Lu houng dou; SY 9605072.

PI 594488. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13624; Qing pi dou; SY 9605073.

PI 594489. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13639; Xiao bai shui dou -1; SY 9605074.

PI 594490. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13644; Chuan xin lu; SY 9605075.

PI 594491. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13645; Qing pi dou; SY 9605076.

PI 594492. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13656; Qing pi dou; SY 9605077.

PI 594493. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13661; Wa wu luowu; SY 9605078.

PI 594494. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13668; Ping chuan lu dou; SY 9605079.

PI 594495. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13669; He shao huang dou -2; SY 9605080.

PI 594496. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13703; Xiao hei dou; SY 9605081.

PI 594497. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13722; Za se huang dou -3; SY 9605082.

PI 594498. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13724; Hei se zao dou zi; SY 9605083.

PI 594499. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13727; Luo ma aluo; SY 9605084.

PI 594500. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13737; Hei dou; SY 9605085.

PI 594501. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13739; Hei dou zi; SY 9605086.

PI 594502. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13741; Gao shan hei dou; SY 9605087.

PI 594503. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13743; Mu gu hei chi huang dou; SY 9605088.

PI 594504. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13750; Zong dou; SY 9605089.

PI 594505. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13763; Niu mao huang dou-1; SY 9605090.

PI 594506. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13777; Jiang se dou; SY 9605091.

PI 594507. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13778; Jiang se dou; SY 9605092.

PI 594508. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13784; Jiang se dou; SY 9605093.

PI 594509. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13795; Zong se zao dou zi; SY 9605094.
PI 594510. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13796; Huang dou-2; SY 9605095.

PI 594511. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13813; Wei cheng he dou; SY 9605096.

PI 594512. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13815; Bian zi jiang se dou; SY 9605097.

PI 594513. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13823; Hua mei dou; SY 9605098.

PI 594514. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13824; Hua lian dou; SY 9605099.

PI 594515. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13825; Hua lian dou; SY 9605100.

PI 594516. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 13826; Hua lian dou; SY 9605101.

PI 594517. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6385; San ming bai dou; SY 9605001.

PI 594518. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6387; Jiang le huang dou; SY 9605002.

PI 594519. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6396; Long yan huang dou; SY 9605003.

PI 594520. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6399; Jian yang da huang dou; SY 9605004.

PI 594521. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6402; Shao wu hong hua dou; SY 9605005.

PI 594522. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6405; Shun chang huang pi jia dou; SY 9605006.

PI 594523. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6409; Pu cheng ma dou; SY 9605007.

PI 594524. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6411; San ming ai jiao qing; SY 9605008.

PI 594525. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6415; Jiang le da qing dou; SY 9605009.

PI 594526. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6416; Jian ning qing dou; SY 9605010.

PI 594527. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6428; Chang ting wu chang qing dou; SY 9605011.
PI 594528. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 6430; Long yan ai jiao dou; SY 9605012.

PI 594529. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 6431; Long yan yi gong bao; SY 9605013.

PI 594530. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 6432; Long yan qing pi bai hua dou; SY 9605014.

PI 594531. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 6433; Pu tian lu xie; SY 9605015.

PI 594532. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 6435; Shun chang qi ping pi dou; SY 9605016.

PI 594533. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 6436; Zheng he qing dou; SY 9605017.

PI 594534. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 6445; Zhang ping chi ren wu; SY 9605018.

PI 594535. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 6447; Zhou ning lao shu mu; SY 9605019.

PI 594536. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14185; Sha xian huang pi xiao dou; SY 9605102.

PI 594537. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14186; Jian ning xiao huang dou; SY 9605103.

PI 594538. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14187; Min hou bai sha wan dou; SY 9605104.

PI 594539. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14189; Shun chang yi gong bao; SY 9605105.

PI 594540. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14190; Bai qiu 1 hao; SY 9605106.

PI 594541. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14191; Ming qiu 3 hao; SY 9605107.

PI 594542. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14196; Ming xi ai jiao hong hua dou; SY 9605108.

PI 594543. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14197; Sha xian cheng jiang lou qing; SY 9605109.

PI 594544. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14201; Bai sha qing pi dou; SY 9605110.

PI 594545. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 14202; Xia pu da dou; SY 9605111.
PI 594546. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14211; Long jiang hei dou; SY 9605112.

PI 594547. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6463; Shang rao xiao huang zhu; SY 9605020.

PI 594548. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6480; Heng feng gui zi dou; SY 9605021.

PI 594549. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14273; Ba yue huang; SY 9605113.

PI 594550. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14277; Jiu yue huang; SY 9605114.

PI 594551. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14281; Bai mao dou; SY 9605115.

PI 594552. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14287; Ba yue bao tian dou; SY 9605116.

PI 594553. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14301; Xi dou zi; SY 9605117.

PI 594554. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14304; Huang pi tian dou; SY 9605118.

PI 594555. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14315; Chou yi wo; SY 9605119.

PI 594556. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14319; Su mao zuang; SY 9605120.

PI 594557. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14328; Lao shu dou; SY 9605121.

PI 594558. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14329; Ba yue huang; SY 9605122.

PI 594559. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14330; Da li huang dou; SY 9605123.

PI 594560. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14368; Xia shui huang; SY 9605124.

PI 594561. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14369; Xia shui huang; SY 9605125.

PI 594562. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14370; Qing pi dou; SY 9605126.

PI 594563. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14386; Ai jiao tian dou; SY 9605127.
Cultivated. Pureline. ZDD 14410; Du gu dou; SY 9605128.

Cultivated. Pureline. ZDD 14411; Gao gan tian dou; SY 9605129.

Cultivated. Pureline. ZDD 14423; Ji an huang dou; SY 9605130.

Cultivated. Pureline. ZDD 14425; Sui dao huang; SY 9605131.

Cultivated. Pureline. ZDD 14426; Ba yue huang; SY 9605132.

Cultivated. Pureline. ZDD 14427; Shi cheng da huang dou; SY 9605133.

Cultivated. Pureline. ZDD 14428; Xiao huang dou; SY 9605134.

Cultivated. Pureline. ZDD 14432; Wu ju dou; SY 9605135.

PI 594572. *Glycine max* (L.) Merr.  
Cultivated. Pureline. ZDD 14433; Luo han dou; SY 9605136.

Cultivated. Pureline. ZDD 14435; Lu pi dou; SY 9605137.

Cultivated. Pureline. ZDD 14447; Qing pi tian dou; SY 9605138.

Cultivated. Pureline. ZDD 14454; Qi du qing pi dou; SY 9605139.

Cultivated. Pureline. ZDD 14476; Cha dou; SY 9605140.

Cultivated. Pureline. ZDD 14605; Yue yang huang dou; SY 9605141.

Cultivated. Pureline. ZDD 14609; Li xian bai huang dou; SY 9605142.

Cultivated. Pureline. ZDD 14610; Zhong he tian cheng dou; SY 9605143.

Cultivated. Pureline. ZDD 14611; Chang de xiao huang dou; SY 9605144.

Cultivated. Pureline. ZDD 14613; Jiang ba liu yue huang; SY 9605145.

Cultivated. Pureline. ZDD 14615; Shi men da bai li; SY 9605146.

PI 594583. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14616; Shi men xiao bai li; SY 9605147.

PI 594584. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14625; An hua yun yi zao; SY 9605148.

PI 594585. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14628; An hua chi huang dou (bing); SY 9605149.

PI 594586. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14631; Bao jing niu mao huang (jia); SY 9605150.

PI 594587. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14637; Yong shun da bai li; SY 9605151.

PI 594588. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14644; Long shan mao ping huang dou; SY 9605152.

PI 594589. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14648; Qian yang huang dou; SY 9605153.

PI 594590. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14657; Cheng bu jiu yue dou; SY 9605154.

PI 594591. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14662; Sui ning ba yue huang (jia); SY 9605155.

PI 594592. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14665; Shi yue xiao huang dou; SY 9605156.

PI 594593. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14666; Zhen shang huang dou; SY 9605157.

PI 594594. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14682; Da tong huang dou; SY 9605158.

PI 594595. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14684; Ba yue da huang dou (jia); SY 9605159.

PI 594596. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14705; Feng huang chi qing pi dou; SY 9605160.

PI 594597. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14718; Ning yuan ba yue huang; SY 9605161.

PI 594598. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14719; Shi yue qing dou; SY 9605162.

PI 594599. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14722; Chang de chun hei dou; SY 9605163.
PI 594600. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14723; Shi men hei huang dou; SY 9605164.

PI 594601. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14741; Tao jiang hong dou; SY 9605165.

PI 594602. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14742; Bao jing cha huang dou; SY 9605166.

PI 594603. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 14745; Long shan cha huang dou; SY 9605167.

PI 594604. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6569; Niu mao dou; SY 9605461.

PI 594605. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6584; Qi yue dou; SY 9605462.

PI 594606. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6585; Feng ding dou; SY 9605463.

PI 594607. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6592; Huang ke dou; SY 9605464.

PI 594608. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6594; Bie huang dou; SY 9605465.

PI 594609. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6601; Ba yue huang; SY 9605466.

PI 594610. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6604; Bai dou; SY 9605467.

PI 594611. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6606; Xiao huang dou; SY 9605468.

PI 594612. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6612; Hei ke bai dou; SY 9605469.

PI 594613. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6617; Hua mu wan dou; SY 9605470.

PI 594614. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6621; Ba yue huang; SY 9605471.

PI 594615. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6627; Liu yue zao; SY 9605472.

PI 594616. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6637; Liu yue zao; SY 9605473.

PI 594617. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6646; Qi chuan dou; SY 9605474.

PI 594618. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6651; Qi yue dou; SY 9605475.

PI 594619. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 6653; Sheng lian zao; SY 9605476.

PI 594620. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 6655; Da bai shui dou; SY 9605477.

PI 594621. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 6672; Da lu dou; SY 9605478.

PI 594622. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 6687; Da hei dou; SY 9605479.

PI 594623. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 6693; Da hei dou; SY 9605480.

PI 594624. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 6720; Zong zi; ZDD 6731; Leng sha dou; SY 9605481.

PI 594625. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15701; Liu yue huang -1; SY 9605168.

PI 594626. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15792; Xia kou bai shui dou -1; SY 9605169.

PI 594627. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15797; Lu pi dou -1; SY 9605170.

PI 594628. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15801; Xiao hua lian; SY 9605171.

PI 594629. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15839; Xiao huang pi dou; SY 9605172.

PI 594630. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15855; Xiao li dou; SY 9605173.

PI 594631. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15861; Yan he huang dou; SY 9605174.

PI 594632. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15862; Yan he huang dou -1; SY 9605175.

PI 594633. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15872; Qing huang za dou -5; SY 9605176.

PI 594635. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15873; Qing huang za dou -6; SY 9605177.

PI 594636. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 15874; Qing huang za dou -12; SY 9605178.
PI 594637. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15886; Huang ke dou -8; SY 9605179.

PI 594638. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15891; Huang ke dou -13; SY 9605180.

PI 594639. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15911; Mi mi dou -6; SY 9605181.

PI 594640. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15914; Mi mi dou -9; SY 9605182.

PI 594641. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15915; Mi mi dou -10; SY 9605183.

PI 594642. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15920; Mi mi dou -15; SY 9605184.

PI 594643. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15926; Ba yue huang -4; SY 9605185.

PI 594644. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15937; Qi yue dou; SY 9605186.

PI 594645. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15955; Liu yue zao dou -2; SY 9605187.

PI 594646. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15959; Wu zui zao dou -1; SY 9605188.

PI 594647. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15961; Wu zui zao dou -3; SY 9605189.

PI 594648. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15964; Wu zui zao dou -6; SY 9605190.

PI 594649. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15969; Wu zui zao dou -11; SY 9605191.

PI 594650. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15970; Wu zui zao dou -12; SY 9605192.

PI 594651. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15972; Wu zui zao dou -14; SY 9605193.

PI 594652. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15979; Xi huang zao dou -2; SY 9605194.

PI 594653. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15991; Mi dou -2; SY 9605195.

PI 594654. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15993; Liu yue dou; SY 9605196.
PI 594655. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 15995; Liu yue dou -2; SY 9605197.

PI 594656. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16000; Liu yue dou -2; SY 9605198.

PI 594657. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16001; Liu yue dou -3; SY 9605199.

PI 594658. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16002; Liu yue ba; SY 9605200.

PI 594659. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16003; Liu yue ba -1; SY 9605201.

PI 594660. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16005; Liu yue dou -1; SY 9605202.

PI 594661. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16007; Liu yue dou -3; SY 9605203.

PI 594662. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16010; Liu yue dou -6; SY 9605204.

PI 594663. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16013; Bai shui dou -2; SY 9605205.

PI 594664. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16016; E shui zao -2; SY 9605206.

PI 594665. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16033; Liu yue mang -3; SY 9605207.

PI 594666. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16035; Liu yue mang -5; SY 9605208.

PI 594667. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16046; Jiang kou huang dou -4; SY 9605209.

PI 594668. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16048; Huang dou zi; SY 9605210.

PI 594669. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16052; Liu yue mang; SY 9605211.

PI 594670. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16055; Huang dou -2; SY 9605212.

PI 594671. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16064; Liu yue mang -2; SY 9605213.

PI 594672. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16065; Liu yue mang -3; SY 9605214.

PI 594673. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16071; Jiang kou qing pi dou -8; SY 9605215.

PI 594674. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16073; Qing pi dou; SY 9605216.

PI 594675. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16075; Huang dou -1; SY 9605217.

PI 594676. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16078; Huang dou -4; SY 9605218.

PI 594677. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16081; Huang dou -7; SY 9605219.

PI 594678. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16092; Huang dou -1; SY 9605220.

PI 594679. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16094; Huang dou -3; SY 9605221.

PI 594680. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16110; Huang dou -2; SY 9605222.

PI 594681. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16111; Huang dou; SY 9605223.

PI 594682. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16129; Liu yue ba; SY 9605224.

PI 594683. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16138; Liu yue ba -10; SY 9605225.

PI 594684. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16139; Liu yue ba -11; SY 9605226.

PI 594685. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16162; Zao huang dou -1; SY 9605227.

PI 594686. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16182; Zao huang dou; SY 9605228.

PI 594687. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16217; Liu yue dou; SY 9605229.

PI 594688. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16272; Liu yue huang -1; SY 9605230.

PI 594689. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16277; Za dou -1; SY 9605231.

PI 594690. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16278; Za dou -2; SY 9605232.

PI 594691. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16308; Niu mao dou -10; SY 9605233.
PI 594692. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16314; Zao douzi -3; SY 9605234.

PI 594693. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16316; Zao douzi -5; SY 9605235.

PI 594694. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16321; Bai shui dou -4; SY 9605236.

PI 594695. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16351; Niu mao dou -4; SY 9605237.

PI 594696. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16363; Hua mian dou; SY 9605238.

PI 594697. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16367; Xing shan bai shui dou; SY 9605239.

PI 594698. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16368; Huang dou -13; SY 9605240.

PI 594699. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16406; Huang dou -1; SY 9605241.

PI 594700. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16466; Qing huang za dou -7; SY 9605242.

PI 594701. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16468; Qing huang za dou -10; SY 9605243.

PI 594702. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16489; Liu yue bao -6; SY 9605244.

PI 594703. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16499; Qing pi dou -1; SY 9605245.

PI 594704. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16500; Qing pi dou -2; SY 9605246.

PI 594705. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16501; Qing pi dou -3; SY 9605247.

PI 594706. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16511; Qing pi dou; SY 9605248.

PI 594707. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16583; Da hei dou; SY 9605249.

PI 594708. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16592; Liu yue bao -8; SY 9605250.

PI 594709. Glycine max (L.) Merr. 
Cultivated. Pureline. ZDD 16598; Hei dou -2; SY 9605251.
PI 594710. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16625; Zong zi dou; SY 9605252.

PI 594711. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16642; Qing huang za dou -3; SY 9605253.

PI 594712. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16646; Liu yue dou -17; SY 9605254.

PI 594713. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 16649; Huang dou -12; SY 9605255.

PI 594714. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6732; Ni ba dou; SY 9605483.

PI 594715. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6755; Da ke houang; SY 9605022.

PI 594716. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6760; Guang dou; SY 9605023.

PI 594717. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6763; Liu cheng shi yue houang; SY 9605024.

PI 594718. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6766; Si yue houang; SY 9605025.

PI 594719. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6773; Bai zhi dou; SY 9605026.

PI 594720. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6779; Dou gu; SY 9605027.

PI 594721. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6782; Bei shan ba yue dou; SY 9605028.

PI 594722. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6795; Qing si liang dou; SY 9605029.

PI 594723. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6802; He xian hei dou; SY 9605030.

PI 594724. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 6808; Tian ji dou; SY 9605031.

PI 594725. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17009; Quan zhou xiao houang dou; SY 9605256.

PI 594726. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17011; Ban jin dou; SY 9605257.

PI 594727. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17022; 77-27; SY 9605258.

PI 594728. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17023; 4469; SY 9605259.

PI 594729. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17027; Ji wo dou; SY 9605260.

PI 594730. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17029; Ba yue qing; SY 9605261.

PI 594731. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17032; Shi yue huang; SY 9605262.

PI 594732. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17035; Huan jiang gao gan huang dou; SY 9605263.

PI 594733. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17040; Huan jiang bai jia huang dou; SY 9605264.

PI 594734. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17057; Ba ma zhong huang dou; SY 9605265.

PI 594735. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17060; Du an di su huang dou; SY 9605266.

PI 594736. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17065; Gun long dou; SY 9605267.

PI 594737. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17066; Zhong tuan huang dou; SY 9605268.

PI 594738. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17075; Long lin long huo huang dou; SY 9605269.

PI 594739. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17076; Jin zhong shan da huang dou; SY 9605270.

PI 594740. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17078; Le ye lu hua dou; SY 9605271.

PI 594741. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17091; Tian yang huang dou; SY 9605272.

PI 594742. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17093; Hua huang dou; SY 9605273.

PI 594743. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17095; Teng huang dou; SY 9605274.

PI 594744. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17096; Na zhen huang dou; SY 9605275.

PI 594745. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17104; Shi yue huang; SY 9605276.
PI 594746. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17105; Da gao chan; SY 9605277.

PI 594747. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17107; Shang lin zao shu feng wo dou; SY 9605278.

PI 594748. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17109; Tian deng ben di zhong; SY 9605279.

PI 594749. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17119; Fu sui ben di dou; SY 9605280.

PI 594750. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17134; Long zhou ben di wan huang dou; SY 9605281.

PI 594751. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17138; Long zhou dong feng dou; SY 9605282.

PI 594752. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17143; Ning ming hai yuan ben di huan; SY 9605283.

PI 594753. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17150; Hei qi da dou; SY 9605284.

PI 594754. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17152; Ji wo dou; SY 9605285.

PI 594755. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17167; Liu yue huang dou; SY 9605286.

PI 594756. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17175; Bai peng qing pi dou; SY 9605287.

PI 594757. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17176; Lin xi wan huang dou; SY 9605288.

PI 594758. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17183; Xiao ke qing; SY 9605289.

PI 594759. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17185; Miao huang ba yue qing; SY 9605290.

PI 594760. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17189; Gou jiao huang dou; SY 9605291.

PI 594761. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17190; Ding an qing pi dou; SY 9605292.

PI 594762. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17192; Tian yang qing dou; SY 9605293.

PI 594763. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17202; De bao qing; SY 9605294.

PI 594764. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17211; Bai se xuan 3-2; SY 9605295.

PI 594765. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17218; Hei huang dou; SY 9605296.

PI 594766. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17221; Tian hei dou; SY 9605297.

PI 594767. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17231; Zhao ping hei dou; SY 9605298.

PI 594768. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17245; Wu ming hei ke huang dou; SY 9605299.

PI 594769. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17246; Luo wei qing dou; SY 9605300.

PI 594770. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17249; Fu sui chang ping hei dou; SY 9605301.

PI 594771. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17266; Ning ming ai jiao hei dou; SY 9605302.

PI 594772. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17270; Fu bei tai wei da hei dou; SY 9605303.

PI 594773. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17278; Fu sui qu li dou; SY 9605304.

PI 594774. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17280; Bao gong dou; SY 9605305.

PI 594775. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17284; Xi huang dou; SY 9605306.

PI 594776. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17296; Bai ri dou; SY 9605307.

PI 594777. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17306; Liu yue huang; SY 9605308.

PI 594778. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17307; Zao dou zi; SY 9605309.

PI 594779. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17310; Zao bai dou; SY 9605310.

PI 594780. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17317; Zao bai dou; SY 9605311.

PI 594781. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17321; Er bai dou; SY 9605312.
PI 594782. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17323; Xiao li dou; SY 9605313.

PI 594783. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17326; Huang dou; SY 9605314.

PI 594784. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17327; Xiao li huang dou; SY 9605315.

PI 594785. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17330; Ben di huang dou; SY 9605316.

PI 594786. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17331; Xiao huang dou; SY 9605317.

PI 594787. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17333; Huang dou; SY 9605318.

PI 594788. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17335; Da zao dou; SY 9605319.

PI 594789. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17336; Za huang dou; SY 9605320.

PI 594790. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17338; Hua lian dou; SY 9605321.

PI 594791. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17341; Hua pi dou; SY 9605322.

PI 594792. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17342; Xiao lu dou; SY 9605323.

PI 594793. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17345; Da gun bai dou; SY 9605324.

PI 594794. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17346; Xiao bai dou; SY 9605325.

PI 594795. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17347; Yao ren bai dou; SY 9605326.

PI 594796. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17359; Xi bai dou; SY 9605327.

PI 594797. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17360; Da huang dou; SY 9605328.

PI 594798. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17363; Huang dou; SY 9605329.

PI 594799. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17364; Huang dou; SY 9605330.
PI 594800. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17365; Tuo liang huang dou; SY 9605331.

PI 594801. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17367; Er huang zao dou; SY 9605332.

PI 594802. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17368; Da huang zao dou; SY 9605333.

PI 594803. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17375; Huang dou; SY 9605334.

PI 594804. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17382; Xi bai dou; SY 9605335.

PI 594805. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17386; Huang pi dou; SY 9605336.

PI 594806. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17389; Gao jiao huang dou; SY 9605337.

PI 594807. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17392; Huang dou; SY 9605338.

PI 594808. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17395; Xiao bai mao dou; SY 9605339.

PI 594809. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17396; Bai mao dou; SY 9605340.

PI 594810. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17397; Xiao huang mao dou; SY 9605341.

PI 594811. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17399; Huang dou; SY 9605342.

PI 594812. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17400; Huang pi dou; SY 9605343.

PI 594813. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17401; Huang pi dou; SY 9605344.

PI 594814. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17403; Da huang dou; SY 9605345.

PI 594815. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17404; Xiao huang dou; SY 9605346.

PI 594816. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17405; Da huang dou; SY 9605347.

PI 594817. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17411; Liu yue huang; SY 9605348.

PI 594818. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17412; Bai mao zi qi yue huang; SY 9605349.

PI 594819. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17413; Qi yue huang; SY 9605350.

PI 594820. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17414; Jiu yue huang; SY 9605351.

PI 594821. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17416; Xi la dou; SY 9605352.

PI 594822. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17418; Xi huang dou; SY 9605353.

PI 594823. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17420; Bai huang dou; SY 9605354.

PI 594824. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17425; Huang dou; SY 9605355.

PI 594825. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17426; Huang dou; SY 9605356.

PI 594826. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17428; Xiao bai dou; SY 9605357.

PI 594827. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17430; Bai dou zi; SY 9605358.

PI 594828. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17431; Lu huang dou; SY 9605359.

PI 594829. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17437; Lu dou; SY 9605360.

PI 594830. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17442; Lu huang dou; SY 9605361.

PI 594831. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17445; Lu huang dou; SY 9605362.

PI 594832. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17446; Lu dou; SY 9605363.

Cultivated. Pureline. ZDD 17447; Cai yuan dou; SY 9605364.

PI 594834. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17450; Wu yue bai dou; SY 9605365.

PI 594835. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17453; Da bai dou; SY 9605366.

PI 594836. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17459; Lu huang dou; SY 9605367.
PI 594837. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17460; Xi bai dou; SY 9605368.

PI 594838. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17465; Xi lu dou; SY 9605369.

PI 594839. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17467; Huang dou; SY 9605370.

PI 594840. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17471; Xiao huang dou; SY 9605371.

PI 594841. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17475; Xiao bai mao dou; SY 9605372.

PI 594842. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17476; Qing pi huang dou; SY 9605373.

PI 594843. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17485; Xiao lu dou; SY 9605374.

PI 594844. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17489; Mian dian lu huang dou; SY 9605375.

PI 594845. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17534; Xiao hei dou; SY 9605376.

PI 594846. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17537; Hei dou; SY 9605377.

PI 594847. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17541; Xiao hei dou; SY 9605378.

PI 594848. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17543; Xiao hei dou; SY 9605379.

PI 594849. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17544; Xiao hei dou; SY 9605380.

PI 594850. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17547; Jiu yue huang; SY 9605381.

PI 594851. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17549; Zao hei dou; SY 9605382.

PI 594852. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17552; Chun duo luo zi se dou; SY 9605383.

PI 594853. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17553; Song zi dou; SY 9605384.

PI 594854. Glycine max (L.) Merr.  
Cultivated. Pureline. ZDD 17554; Song zi dou; SY 9605385.
PI 594855. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17555; Song zi dou; SY 9605386.

PI 594856. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17559; Cha huang dou; SY 9605387.

PI 594857. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17560; Huang pi dou; SY 9605388.

PI 594858. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17562; Huang pi dou zi; SY 9605389.

PI 594859. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17565; Zao huang dou; SY 9605390.

PI 594860. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17566; Da zong dou; SY 9605391.

PI 594861. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17569; Da lu dou; SY 9605392.

PI 594862. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17572; Cha huang dou; SY 9605393.

PI 594863. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17573; Da zong pi dou; SY 9605394.

PI 594864. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17575; Yang yan dou; SY 9605395.

PI 594865. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17577; Er bai dou; SY 9605396.

PI 594866. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17578; Zong se dou; SY 9605397.

PI 594867. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17581; Lu huang dou; SY 9605398.

PI 594868. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17582; Huang dou; SY 9605399.

PI 594869. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17584; Huo shao dou; SY 9605400.

PI 594870. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17586; Ben di huang dou; SY 9605401.

PI 594871. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17592; Hou zi dou; SY 9605402.

PI 594872. Glycine max (L.) Merr.
  Cultivated. Pureline. ZDD 17593; Bao shan da dou; SY 9605403.

PI 594873. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17595; Hu pi huang dou; SY 9605404.

PI 594874. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17596; Hu pi huang dou; SY 9605405.

PI 594875. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17597; Hu pi dou; SY 9605406.

PI 594876. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17601; Hu pi dou; SY 9605407.

PI 594877. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17602; Fu pi dou; SY 9605408.

PI 594878. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17603; Xiao hong dou; SY 9605409.

PI 594879. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17607; Huo shao dou; SY 9605410.

PI 594880. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17610; Song zi dou; SY 9605411.

PI 594881. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17611; Yang yan dou; SY 9605412.

PI 594882. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17613; Hei da dou; SY 9605413.

PI 594883. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17615; De hong xuan 8; SY 9605414.

PI 594884. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17619; He pi huang dou; SY 9605415.

PI 594885. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17621; Song zi dou; SY 9605416.

PI 594886. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17623; Zao huang dou; SY 9605417.

PI 594887. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17627; Yang yan dou; SY 9605418.

PI 594888. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17628; Lu dou; SY 9605419.

PI 594889. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17629; Yang dou; SY 9605420.

PI 594890. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17633; Wu yun dou; SY 9605421.

PI 594891. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 17634; Da dou; SY 9605422.
PI 594892. *Glycine max* (L.) Merr.
Cultivated. Pureline. ZDD 17635; Huang dou; SY 9605423.

Received 05/10/1996.


Received 05/10/1996.


Received 05/10/1996.


The following were donated by R.L. Cooper, USDA-ARS, Ohio State University, 1680 Madison, Wooster, Ohio 44691-4096, United States; Cheng Xu, Department of Science & Technology, Ministry of Agriculture, Beijing, China. Received 05/10/1996.

Cultivated. Pureline. ZDD 756; SY 9604001.

Cultivated. Pureline. ZDD 929; SY 9604002.

Cultivated. Pureline. ZDD 3733; SY 9604003.

Cultivated. Pureline. ZDD 3879; SY 9604004.

PI 594902. *Glycine max* (L.) Merr.
Cultivated. Pureline. ZDD 4403; SY 9604005.
PI 594903. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 4568; SY 9604006.

PI 594904. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 5827; SY 9604007.

PI 594905. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 5842; SY 9604008.

PI 594906. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 5852; SY 9604009.

PI 594907. Glycine max (L.) Merr.
Cultivated. Pureline. ZDD 5893; SY 9604010.

Unknown source. Received 06/1995.

PI 594908. Glycine max (L.) Merr.
Cultivated. Pureline. SY 9603001.

The following were developed by G.L.C. Musa, Northwest Agricultural Research Center, (CIANO-INIFAP-SAGAR), Yaqui Valley Agric. Exp. Stn., Ciudad Obregon, Sonora CP 85000, Mexico; Sergio Munoz-Valenzuela, Northwest Agricultural Research Center, (CIANO-INIFAP-SAGAR), N.E. Borlaug KM 12, Ciudad Obregon, Sonora, Mexico; F. Ochoa-Burgos, Northwest Agricultural Research Center, (CIANO-INIFAP-SAGAR), Apartado Postal 515, Ciudad Obregon, Sonora, Mexico. Received 04/29/1996.

PI 594909. Sesamum indicum L.
Breeding. RIO MAYO 93. CV-8. Pedigree - Teras 77/Iguala 296. Begins flowering about 50 d after planting and reaches physiological maturity at 100 d. Mature plant height average 140 cm. Height of first capsules 65 cm. Seed white, averaging 3.1 mm long and 1.9 mm wide, weight averages 3.0 g 1000-1 and test weight 60.5 kg hL-1, average of 458 g kg-1 oil, 249 g kg-1 protein, and 76 g kg-1 carbohydrates. Fatty acid content of oil fraction averages 427 g kg-1 oleic acid, 436 g kg-1 linoleic acid, 95 g kg-1 palmitic acid, 42 g kg-1 stearic acid, and iodine number of 111.6.

The following were developed by Lee Panella, USDA, ARS, Colorado State University, Sugarbeet Research, Crops Research Lab., Fort Collins, Colorado 80536-2083, United States; Earl G. Ruppel, USDA-ARS, Crops Research Laboratory, 1701 Center Avenue, Fort Collins, Colorado 80526, United States. Received 05/02/1996.

PI 594910. Beta vulgaris L.
Breeding. FC 721; 9310SHO. GP-185. Pedigree - Genetic male-sterile plants from a synthetic (5% F3 of (SL202MM x (US201 x CTRMM)) x SL122-Omm, 27% of C817, and 16% of SP5832-0; all crossed to FC701 (52%) / C718 (male parent). Diploid, monogerm, O-type (maintainer line) resistant to root and crown rot (R. solani AG-2-2). Relatively
homogenous, easy bolting, moderately tolerant to curly top virus. Moderate resistance to Cercospora leaf spot (Cercospora beticola). Segregates for green hypocotyl (39%). O-type (maintainer line) of its CMS equivalent, FC721CMS, which is the BC10 with C718CMS as the nonrecurrent parent.

PI 594911. Beta vulgaris L.
Breeding. FC 721 CMS; 931005H01. GP-186. Pedigree - BC10 of FC721 with C718CMS as the nonrecurrent parent. Cytoplasmic-genetic male sterile equivalent of FC721. Diploid, monogerm, O-type (cms) resistant to root and crown rot (R. solani AG-2-2). Relatively homogenous, easy bolting, moderately tolerant to the curly top virus. Moderate resistance to Cercospora leaf spot (Cercospora beticola). Segregates for green hypocotyl (39%).

The following were developed by Jim Dobson, Georgia Mountain Exp. Station, P.O. Box 925, Blairsville, Georgia 30512, United States; Ronny R. Duncan, University of Georgia, Georgia Agricultural Exp. Station, Department of Agronomy, Griffin, Georgia 30223-1797, United States; Wayne W. Hanna, USDA, ARS, Coastal Plains Experiment Station, P.O. Box 748, Tifton, Georgia 31793, United States; D.S. Thompson, Georgia Mountain Exp. Station, Route 1, Box 1005, Blairsville, Georgia 30512, United States. Received 05/02/1996.

PI 594912. Eremochloa ophiuroides (Munro) Hackel
Cultivar. "TifBlair"; TC312. CV-184; PVP 9600255. Pedigree - Common centipedegrass seed was recurrently irradiated with 12 Kr Cobalt 60 gamma radiation for 3 generations beginning in 1977. In each generation 1500 plants were spaced on 0.3m centers in isolation and allowed to interpollinate. Quality, color, and greenup characteristics similar to common centipedegrass under favorable growing conditions. Grows more rapidly, more vigorous, and better quality than common centipedegrass. Growth reduced 5% on a soil with pH 4.3 compared to pH 5.2, while growth of common centipedegrass reduced 35% on the same soils. Produces more stolons that grow faster and more leaves than common centipedegrass. First seed-propagated commercial centipedegrass cultivar with a known pedigree.

The following were developed by Joseph H. Bouton, University of Georgia, Department of Crop & Soil Sciences, 3111 Plant Sciences Building, Athens, Georgia 30602, United States; R.N. Gates, USDA, ARS, Coastal Plain Exp. Sta., Tifton, Georgia 31793, United States; P.R. Utley, Coastal Plain Exp. Sta., Animal Sci. Dept., Tifton, Georgia 31793, United States; D.T. Wood, University of Georgia, Dept. of Crop and Soil Sciences, Athens, Georgia 30602, United States. Received 05/06/1996.

PI 594913. Medicago sativa L. ssp. sativa
Cultivar. "ABT 805"; GA-FL77-S2. CV-194. Pedigree - Synthetic variety with 90 parent clones selected from Florida 77-S. Intended for use in the Southeastern region of the United States for grazing, hay, silage, and dehy production. Tested in Georgia and California. After intensive grazing, showed plant survival equal to Alfagraze. Fall dormancy similar to Moapa 69. Flower color of Syn 1 approximately 86% purple and 14% variegated. High resistance to Fusarium wilt and Southern root-knot
nematode. Resistance to Phytophthora root rot and spotted alfalfa aphid. Moderate resistance to anthracnose (race 1), bacterial wilt, Verticillium wilt, and stem nematode.

PI 594914. Medicago sativa L. ssp. sativa

The following were developed by Michael McConkey, Edible Landscaping, P.O. Box 77, Afton, Virginia 22920, United States. Donated by Ahmed Zahoor, Plant Introduction and Genetic Resources, Pakistan Agriculture Research Center, P.O. Box 1031, Islamabad, Pakistan. Received 02/03/1986.

PI 594915. Morus alba L.

The following were donated by Arkansas Agr. Exp. Sta., Arkansas, United States. Received 1971.

PI 594916. Lupinus albus L.
Cultivar. "HOPE". CV-4.

The following were developed by Herbert W. Ohm, Purdue University, Agronomy Department, 1150 Lilly Hall, West Lafayette, Indiana 47907-1150, United States; Keith Perry, Purdue University, Department of Botany and Plant Pathology, 1155 Lilly Hall of Life Sciences, West Lafayette, Indiana 47907-1155, United States; H.C. Sharma, Purdue University, Dept. of Agronomy, West Lafayette, Indiana 47906, United States. Received 05/07/1996.

PI 594917. Triticum aestivum L., nom. cons.
Breeding. Pureline. P29. GP-541. Pedigree - Abe/Thinopyrum intermedium//Compton/3/PB1401Al-43/4/Caldwell. A chromosome substitution line, resistant to barley yellow dwarf viruses (BYDV) strains P-PAV and MAV conditioned by a gene(s) on a chromosome from Thinopyrum intermedium that replaced chromosome 7D. Substitution determined by chromosome pairing and RFLP analyses. Similar to commercial wheat cultivars in yield. In a replicated trial, grain yield was 3551 kg ha-1 compared to 3591 kg ha-1 of Caldwell check, indicating no yield disadvantage of the alien chromosome substitution. Cold tolerance similar to Caldwell, awnless, 9 cm taller and 5 d later than Caldwell. Resistant to Puccinia
recondita, susceptible to Erysiphe graminis common in Indiana, and susceptible to Hessian fly biotype L.

The following were developed by Solomon Kibite, Agriculture Canada, Research Station, Bag Service 5000, Lacombe, Alberta T0C 1S0, Canada. Received 03/21/1996.

**PI 594918. Avena sativa** L.
Cultivar. Pureline. "AC MUSTANG"; OT766. CV-340. Pedigree - Cascade/Fraser. Dual purpose (grain/silage) spring oat with high grain yield, good lodging resistance and desirable agronomic features. Yields about 5.7% more than Cascade, and about 9.7% more than Dumont. Medium-late maturing and ripens about 1 d earlier than Dumont. High test weight and kernel weight, and higher percentage of plump kernels than Cascade and Dumont. Averages about 3 cm taller than Cascade and equal to Cascade and better than Dumont in lodging resistance. Resistant to Victoria blight, moderately resistant to smut. Moderately susceptible to barley yellow dwarf virus, and susceptible to crown rust and stem rust.

The following were developed by C.R. Funk, New Jersey Agricultural Experiment Station, Rutger University, Cook College, New Brunswick, New Jersey 08903, United States; J.M. Johnson-Cicalese, University of Nebraska-Lincoln, 377 Plant Science, Lincoln, Nebraska 68583-0724, United States; R.F. Bara, New Jersey Agr. Exp. Sta., Rutgers University, Cook College, New Brunswick, New Jersey 08903, United States; W.K. Dickson, New Jersey Agr. Exp. Sta., Cook College, Rutgers University, Plant Science Department, New Brunswick, New Jersey 08903, United States; V.G. Lehman, Lofts Seed, Inc., P.O. Box 146, Bound Brook, New Jersey 08805, United States; Richard H. Hurley, Lofts Seed, Inc., 347 Elizabeth Avenue, Suite 101, Somerset, New Jersey 08873, United States; Dirk A. Smith, New Jersey Agricultural Experiment Station, Plant Science Dept., Cook College, Rutgers Univ., New Brunswick, New Jersey 08903, United States. Received 05/24/1996.

**PI 594919. Poa pratensis** L.
Cultivar. Apomictic. "EAGLETON"; Eagleton 1425. CV-50; PVP 9600277. Pedigree - Single, highly apomictic plant selected from the grounds of Woodland, home of the Eagleton Institute, Douglas College Campus, Rutgers University, New Brunswick, NJ. Leafy, turf-type with attractive medium-green color, medium-fine leaves, and moderately slow rate of vertical growth. Produces dependable, aggressive, persistent turf of medium high density with good summer performance. Good resistance to stripe smut (Ustilago striiformis) and dollar spot (Sclerotinia homoeocarpa). Moderate resistance to leaf spot and melting-out (Drechslera poae).

The following were developed by R.S. Albrechtsen, Utah Agr. Exp. Sta., Utah State University, Dept. of Plant Science, Logan, Utah 84322-4820, United States; David Hole, Utah State University, Plants, Soils, & Biometeorology Dept., UMC 4820 AGSCI 334, Logan, Utah 84322-4820, United States; S.A. Young, Utah State University, Plants, Soils, and Biometerorology Department, Logan, Utah 84322-4820, United States; S.M. Clawson, Utah State University, Dept. of Plants, Soils, and Biometeorology, Logan, Utah 84322-4820, United
PI 594920. Triticum aestivum L., nom. cons.

The following were developed by Don F. Salmon, Alberta Agriculture, Field Crops Section, 5718-56 Avenue, Lacombe, Alberta TOC 1S0, Canada; R.R. Duggan, Alberta Agriculture Field Crops Res., Cereal Breeding Program, Postal Bag 47, Lacombe, Alberta T0C 1S0, Canada; Jim Helm, Alberta Agriculture, Field Crop Development Centre, 5030 50 Street, Lacombe, Alberta T4L 1W8, Canada; Manuel Cortez, Alberta Agriculture, Food and Rural Development, Field Crop Development Centre, Lacombe, Alberta T4L 1W8, Canada; Patricia E. Jedel, Alberta Agriculture, Field Crop Development Centre, 5050-50 Street, Lacombe, Alberta T4L 1W8, Canada. Received 05/24/1996.

PI 594921. X Triticosecale sp.

The following were developed by Vincent R. Pantalone, USDA-ARS, North Carolina State University, 3127 Lingon Street, Raleigh, North Carolina 27607, United States; T.E. Carter, USDA, ARS, North Carolina State University, 3127 Lingon Street Box 7631, Raleigh, North Carolina 27695-7631, United States; Joe W. Burton, USDA-ARS, North Carolina State University, Department of Crop Science, Raleigh, North Carolina 27695-7631, United States; Cecilia Bianchi-Hall, USDA, ARS, North Carolina State University, Dept. of Crop Science, Raleigh, North Carolina 27695-7620, United States; E.B. Huie, USDA, ARS, North Carolina State Univ., Dept. of Crop Science, Raleigh, North Carolina 27695-7631, United States; F.S. Farmer, USDA, ARS, North Carolina State University, Dept. of Crop Sci., Raleigh, North Carolina 27695-7631, United States. Received 05/13/1996.

PI 594922. Glycine max (L.) Merr.
Cultivar. Pureline. "Graham". CV-352; PVP 9700001. Pedigree - N77-114 x Pixie. Maturity group V with high yield. Flowers purple, gray pubescence, determinate growth habit. Yellow seed, buff hila (but exhibits a range in color depending upon environment), average seed
weight of 15.9 g/100 seed. Resistance to soybean mosaic virus, and to frog eye leaf spot. Susceptible to meloidigyne incognita, meloidigyne arenaria, heterodera glycines, sudden death syndrome, and stem canker. First public cultivar with midwestern x southern pedigree in maturity group V.


PI 594923. Arachis hypogaea L.
Breeding. Pureline. ICGV 87165; CS 9. GP-78. Pedigree - A interspecific derivative of PI 261942 (A. hypogaea subsp. fastigiata var. fastigiata) x A. cardenasii. Virginia bunch type with alternate branching and no flowers on main stem. Leaves small, elliptic, green. 8-12 primary branches and 14-25 secondary branches. Matures in about 117 days during the rainy season in India. Slightly reticulated pods with moderate ridges and beaks. Pods two to one-seeded with average meat content of 60%. Seeds red, with 100-seed weight of 41g and contain 46% oil (at 5% moisture) and 22% protein. Resistant to rust (Puccinia arachidis) and late leaf spot (Phaeosariopsis personata) and moderately resistant to bacterial wilt (Pseudomonas solanaceum) and tobacco caterpillar (Spodoptera litura).

The following were collected by Shirley A. Graham, Kent State University, Dept. of Biological Sciences, Kent, Ohio 44242-0001, United States. Donated by S. Graham, Kent State University, Dept. Biological Science, Kent, Ohio 44141-0001, United States. Received 04/11/1988.

PI 594924. Cuphea ramosissima Pohl ex Koehne
Wild. Graham 938; Ames 8336. Collected in Minas Gerais, Brazil.
Elevation 600 m. 12 km S of Medina, MG on BR116. In a seep on a granitic bald dome.

PI 594925. Cuphea aequipetala Cav.
Elevation 2300 m. 2 km SW of Puebla-Veracruz border on Acultcingo-Azumbilla road. Margins of low oak woods. Plants spreading, prostrate to decumbent.

The following were collected by Steven J. Knapp, Oregon State University, Department of Crop & Soil Science, Crop Science Building, Corvallis, Oregon 97331, United States. Received 01/12/1989.
PI 594926. Cuphea tolucaea Peyr.
Wild. 8228621; TL029; Ames 10145. Collected 08/22/1986 in Mexico.
Elevation 2366 m. Up cobblestone road that turns off from the road to
Tenancingo off Hwy 13.

PI 594927. Cuphea tolucaea Peyr.
Wild. 8248639; TL044; Ames 10159. Collected 08/24/1986 in Mexico.
Elevation 2109 m. Roadside, 30 km west of Patzcuaro on Hwy 14.

The following were collected by S. Graham, Kent State University, Dept.
Biological Science, Kent, Ohio 44141-0001, United States. Received

PI 594928. Cuphea decandra Aiton f.
Elevation 850 m. 27 km NW junction of Ruta al Atlantico at El Rancho and
Salama Road, near Los Leones. Dept. Baja Verapaz.

The following were developed by Oregon State University, Oregon Agriculture
Experiment Station, Corvallis, Oregon 97331, United States. Donated by Steven
J. Knapp, Oregon State University, Department of Crop & Soil Science, Crop
Science Building, Corvallis, Oregon 97331, United States. Received
05/22/1990.

PI 594929. Cuphea wrightii A. Gray var. wrightii
Breeding. WR007; Ames 13777.

The following were developed by Jardin Botanique de l'Universite et de la
Ville, Institut de Sciences Naturelles, Faculte des Sciences, Besancon, Doubs
F-25000, France. Donated by Myra Manoah, Ministry of Agriculture, The Volcani
Center, The Israel Gene Bank for Agricultural Crops, Bet Dagan, Israel.
Received 03/01/1991.

PI 594930. Cuphea lanceolata Aiton f.
Cultivated. Israel Gene Bank 44-938; Ames 14947.

The following were developed by Botanischer Garten der Universitat Leipzig,
Linnestrasse 1, Leipzig, Germany. Donated by Myra Manoah, Ministry of
Agriculture, The Volcani Center, The Israel Gene Bank for Agricultural Crops,
Bet Dagan, Israel. Received 03/01/1991.

PI 594931. Cuphea lanceolata Aiton f.
Cultivated. Israel Gene Bank 48-628; Ames 14951.

The following were collected by William W. Roath, USDA, ARS, Iowa State
University, Regional Plant Introduction Station, Ames, Iowa 50011, United
States; G. Pedralli, EMBRAPA-CENARGEN, Brasilia, Brazil. Donated by Centro
Nacional de Recursos Geneticos, Empresa Brasileira de Pesquisa, Agropecuaria,
Brasilia, Federal District, Brazil. Received 05/06/1991.
PI 594932. Cuphea carthagenensis (Jacq.) J. F. Macbr.

The following were donated by William W. Roath, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011, United States; Holub Garden & Greenhouses, R.R. 2, Ames, Iowa, United States. Received 05/01/1991.

PI 594933. Cuphea hyssopifolia Kunth
Cultivated. Ames 15634. Note that this accession may be protected.

The following were collected by William W. Roath, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011, United States; Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011, United States; Alvaro Campos, Universidad National Autonoma de Mexico, Department of Botany, Mexico City, Federal District, Mexico; Roger G. Fuentes-Granados, North Central Regional Plant Intro. Stn., ISU, Ames, IA 50011. Received 10/19/1993.

PI 594934. Cuphea lanceolata Aiton f.

PI 594935. Cuphea lanceolata Aiton f.

PI 594936. Cuphea lanceolata Aiton f.

PI 594937. Cuphea lanceolata Aiton f.
PI 594938. *Cuphea lanceolata* Aiton f.

PI 594939. *Cuphea lanceolata* Aiton f.

PI 594940. *Cuphea lanceolata* Aiton f.

PI 594941. *Cuphea lanceolata* Aiton f.

PI 594942. *Cuphea lanceolata* Aiton f.

PI 594943. *Cuphea lanceolata* Aiton f.

PI 594944. *Cuphea lanceolata* Aiton f.

PI 594945. *Cuphea lanceolata* Aiton f.

PI 594946. Cuphea lanceolata Aiton f.

PI 594947. Cuphea lanceolata Aiton f.

PI 594948. Cuphea lanceolata Aiton f.


The following were collected by William W. Roath, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011, United States; Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011, United States; Alvaro Campos, Universidad National Autonoma de Mexico, Department of Botany, Mexico City, Federal District, Mexico; Roger G. Puentes-Granados, North Central Regional Plant Intro. Stn., ISU, Ames, IA 50011. Donated by William W. Roath, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011, United States; Alvaro Campos, Universidad National Autonoma de Mexico, Department of Botany, Mexico City, Federal District, Mexico. Received 10/19/1993.

PI 594950. Cuphea lanceolata Aiton f.
Wild. RWCF 57; Ames 21546. Collected 10/12/1993 in Zacatecas, Mexico.
Latitude 22 deg. 41' N. Longitude 103 deg. 41' W. Elevation 2060 m. 

The following were collected by Roger Fuentes-Granados, Iowa State 
University, Department of Agronomy, Room 2101 Agronomy, Ames, Iowa 50011, 
United States; William W. Roath, USDA, ARS, Iowa State University, Regional 
Plant Introduction Station, Ames, Iowa 50011, United States; Mark P. 
Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction 
Station, Ames, Iowa 50011, United States; Alvaro Campos, Universidad National 
Autonoma de Mexico, Department of Botany, Mexico City, Federal District, 
Mexico. Donated by William W. Roath, USDA, ARS, Iowa State University, 
Regional Plant Introduction Station, Ames, Iowa 50011, United States; Mark P. 
Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction 
Station, Ames, Iowa 50011, United States; Alvaro Campos, Universidad National 
Autonoma de Mexico, Department of Botany, Mexico City, Federal District, 
Mexico. Received 10/19/1993.

PI 594951. Cuphea wrightii A. Gray var. wrightii 
Wild. RWCF 28; Ames 21547. Collected 10/06/1993 in Guanajuato, Mexico. 
Latitude 20 deg. 53' N. Longitude 100 deg. 51' W. Elevation 2050 m. Road 
edge, ca. 0.8 km SW inters. road to Guanajuato from Presa Allende. 
Unimproved road. Extends to below collection site for Ames 21537. Near 
Canada de La Virgen. Rocky. Assoc. with Gomphrena, Tagetes, Acacia, 

PI 594952. Cuphea wrightii A. Gray var. wrightii 
Wild. RWCF 32; Ames 21548. Collected 10/06/1993 in Guanajuato, Mexico. 
Latitude 20 deg. 51' N. Longitude 100 deg. 31' W. Elevation 2180 m. Ca. 
200 m W Guanajuato-Queretaro border on hwy fm San Miguel Allende to 
Queretaro. Near Hda. Las Mojas. Limestone outcropping. Assoc. with 
Ipomoea, Eupatorium, Tagetes, Cuphea aequipetala. Plants moderate. 
Photo 4/23.

PI 594953. Cuphea wrightii A. Gray var. wrightii 
Wild. RWCF 34; Ames 21549. Collected 10/06/1993 in Queretaro, Mexico. 
Latitude 20 deg. 22' N. Longitude 100 deg. 5' W. Elevation 2010 m. 
Roadside, 3 km S Galindo on road to Amealco. Near Galindo. In rocks, 
rocky sandy soil. Assoc. with Gomphrena, Salvia, Opuntia, Sanvitalia 
procumbens. Plants moderate.

PI 594954. Cuphea wrightii var. alba S. Graham 
Wild. RWCF 35; Ames 21550. Collected 10/06/1993 in Queretaro, Mexico. 
Latitude 20 deg. 22' N. Longitude 100 deg. 5' W. Elevation 2010 m. 
Roadside, 3 km S Galindo on road to Amealco. Near Galindo. In rocks, 
rocky sandy soil. Assoc. with Sanvitalia procumbens, Opuntia, under 
Acacia. Plants large. Lower petals white.

PI 594955. Cuphea wrightii A. Gray var. wrightii 
Latitude 21 deg. 6' N. Longitude 101 deg. 26' W. Elevation 2120 m. Ca. 5 
km ENE Comanjilla on road to Arperos. Near Comanjilla. Scrubby pasture 
in rocks. Assoc. with Zinnia peruviana, Eryngium, Tagetes, Acacia. 
Plants large, scattered. Photo 5/6-7.
PI 594956. *Cuphea wrightii* A. Gray var. wrightii

The following were developed by Bereich Botanik und Arboretum des Museums für Naturkunde, der Humboldt Univ. zu Berlin, 1195 Berlin, Spatstr. 80/81, Berlin, Germany. Donated by Myra Manoah, Ministry of Agriculture, The Volcani Center, The Israel Gene Bank for Agricultural Crops, Bet Dagan, Israel. Received 06/27/1994.

PI 594957. *Cuphea lanceolata* Aiton f.
Cultivated. Israel Gene Bank #56-591; Ames 22117.

The following were donated by Jardin Botanique, Nancy, France; Myra Manoah, Ministry of Agriculture, The Volcani Center, The Israel Gene Bank for Agricultural Crops, Bet Dagan, Israel. Received 09/01/1994.

PI 594958. *Cuphea lanceolata* Aiton f.
Cultivar. 855; Ames 22236.

PI 594959. *Cuphea procumbens* Cav.
Cultivar. 856; Ames 22237.

The following were developed by USDA, ARS Forage and Pasture, Building 005, BARC-West, Beltsville, Maryland 20705, United States. Donated by Austin Campbell, USDA, ARS, BA, Bldg. 001, Room 339, BARC-West, Beltsville, Maryland 20705, United States. Received 03/15/1987.

PI 594960. *Cuphea lanceolata* Aiton f.
Cultivated. LANA01; Ames 22286. Non-sticky lanceolata. Glandular trichomes not present.

The following were donated by Oliver W. Norvell, Carnegie Institute of Washington, Stanford, California, United States. Received 04/22/1952.

PI 594961. *Capsicum frutescens* L.
1SCA. Collected in Guatemala. Selection from PI 200729.

The following were collected by Dan Parfitt, University of California, Department of Pomology, Davis, California 95616, United States; George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Developed by Gregory M. Levin, Turkmenian Experimental Station, Plant Genetic Resources, Labortory of Subtropical Fruits, Garrygala, Turkmenistan. Received 09/08/1995.

PI 594962. *Punica granatum* L.
Turkmenistan Experimental Station of Plant Genetic Resources, Garrygala. Pedigree - Sel. by G.M. Levin (Kara-kala Experimental Station, VIR). Sweet, soft seeded type. Ripens in August. Name means super early.

The following were collected by Dan Parfitt, University of California, Department of Pomology, Davis, California 95616, United States; George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Developed by A.D. Strebkova, Kara-kala Experimental Station, VIR, Turkmenistan; O.F. Mizgiryova, Kara-kala Experimental Station, VIR, Turkmenistan; N. Zaktrager, Kara-kala Experimental Station, VIR, Turkmenistan. Received 09/08/1995.

**PI 594963. Punica granatum** L.


**PI 594964. Punica granatum** L.


The following were collected by Dan Parfitt, University of California, Department of Pomology, Davis, California 95616, United States; George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 09/08/1995.

**PI 594965. Punica granatum** L.


The following were collected by Dan Parfitt, University of California, Department of Pomology, Davis, California 95616, United States; George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Developed by A.D. Strebkova, Kara-kala Experimental Station, VIR, Turkmenistan. Received 09/08/1995.

**PI 594966. Punica granatum** L.

Cultivated. "DOTCH LEGRELLEY". Collected 09/08/1995 in Turkmenistan. Turkmenistan Experimental Station of Plant Genetic Resources, Garrygala. Pedigree - Sel. by A.D. Strebkova (Kara-kala Experimental Station, VIR). Flowers double, red-white.

The following were collected by Dan Parfitt, University of California, Department of Pomology, Davis, California 95616, United States; George A. White, USDA, ARS, National Germplasm Repository, University of California,
PI 594967. Punica granatum L.

PI 594968. Punica granatum L.


PI 594969. Arachis hypogaea L.

PI 594970. Arachis hypogaea L.

PI 594971. Arachis hypogaea L.

PI 594972. Arachis hypogaea L.
Breeding. ICGV 87378. GP-82. Pedigree - Mass selection from germplasm
line Kanto No. 40 (also known as ICG 7261 and EC 123074). Spanish type with fresh seed dormancy. Growth habit erect with sequential branching, and elliptical light green leaves. Pods mainly two-seeded, medium to large in size with slight to moderate beak, moderate constriction and slight reticulation. Seeds with tan colored testae. Seed weight 51-53g 100 seed-1.

PI 594973. Arachis hypogaea L.

The following were donated by USDA, SCS, Georgia Agr. Exp. Station, Georgia, United States. Received 1965.

PI 594974. Lupinus bicolor Lindley
Uncertain. W6 7125; NSL 22657; AM-2.

The following were donated by USDA, ARS, Idaho Agr. Exp. Sta., Idaho, United States. Received 1965.

PI 594975. Astragalus cicer L.
Uncertain. W6 7090; NSL 34748; CICAR. Collected in Sweden.

The following were donated by Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1970.

PI 594976. Guizotia abyssinica (L. f.) Cass.
Uncertain. W6 3448; NSL 73276; PI 243914XPI 248882-894(BLEND). Collected in India.

The following were donated by Welsh Plant Breeding Station, Genetic Resources Unit, Aberystwyth, Dyfed, Wales, United Kingdom. Received 09/03/1991.

PI 594977. Dactylis glomerata L.
Wild. ABY-BC 5456.82; W6 9067. Collected in France. Latitude 43 deg. 52' N. Longitude 5 deg. 23' E. Elevation 300 m. Apt.

PI 594978. Dactylis glomerata L.
Wild. ABY-BC 5457.82; W6 9068. Collected in France. Latitude 43 deg. 51' N. Longitude 5 deg. 35' E. Elevation 500 m. Cereste.

PI 594979. Dactylis glomerata L.
Wild. ABY-BC 5462.81; W6 9069. Collected in France. Latitude 44 deg. 28' N. Longitude 6 deg. 13' E. Espinasses.

PI 594980. Dactylis glomerata L.
Wild. ABY-BC 5469.66; W6 9070. Collected in France. Latitude 44 deg.
PI 594981. Dactylis glomerata L.
Wild. ABY-BC 5482.80; W6 9072. Collected in Italy. Latitude 44 deg. 21' N. Longitude 9 deg. 13' E. Elevation 90 m. Rapallo.

PI 594982. Dactylis glomerata L.
Wild. ABY-BC 5487.66; W6 9074. Collected in Italy. Latitude 43 deg. 36' N. Longitude 12 deg. 13' E. Elevation 1044 m. Trabaria, Bocca (Pass).

PI 594983. Dactylis glomerata L.
Wild. ABY-BC 5653.67; W6 9075. Collected in Spain. Latitude 42 deg. 29' N. Longitude 8 deg. 44' W. Elevation 244 m. Meis.

PI 594984. Dactylis glomerata L.
Wild. ABY-BC 5666.67; W6 9076. Collected in Spain. Latitude 42 deg. 49' N. Longitude 6 deg. 30' W. Elevation 610 m. Paramo Del Sil.

PI 594985. Dactylis glomerata L.

PI 594986. Dactylis glomerata L.
Wild. ABY-BC 5670.67; W6 9078. Collected in Spain. Latitude 43 deg. 21' N. Longitude 5 deg. 8' W. Elevation 122 m. Cangas De Onis.

PI 594987. Dactylis glomerata L.
Wild. ABY-BC 6529.72; W6 9080.

PI 594988. Dactylis glomerata L.
Wild. ABY-BC 6905.80; W6 9081. Collected in Spain. Latitude 42 deg. 15' N. Longitude 8 deg. 13' W. Elevation 400 m. Melon.

PI 594989. Dactylis glomerata L.

PI 594990. Dactylis glomerata L.

PI 594991. Dactylis glomerata L.
Wild. ABY-BC 6912.79; W6 9084. Collected in Spain. Latitude 42 deg. 28' N. Longitude 8 deg. 16' W. Elevation 650 m. Beariz.

PI 594992. Dactylis glomerata L.
Wild. ABY-BC 6916.80; W6 9086. Collected in Spain. Latitude 42 deg. 32' N. Longitude 8 deg. 19' W. Elevation 690 m. Vilapouca.

PI 594993. Dactylis glomerata L.
Wild. ABY-BC 6918.80; W6 9087. Collected in Spain. Latitude 42 deg. 40' N. Longitude 8 deg. 6' W. Elevation 640 m. Lalin.

PI 594994. Dactylis glomerata L.
Wild. ABY-BC 6920.80; W6 9088. Collected in Spain. Latitude 42 deg. 32'
N. Longitude 8 deg. 6' W. Elevation 680 m. Irijo.

PI 594995. Dactylis glomerata L.
Wild. ABY-BC 6957.80; W6 9109. Collected in Spain. Latitude 42 deg. 42' N. Longitude 7 deg. 46' W. Elevation 480 m. Taboada.

PI 594996. Dactylis glomerata L.

PI 594997. Dactylis glomerata L.

PI 594998. Dactylis glomerata L.

PI 594999. Dactylis glomerata L.
Wild. ABY-BC 6965.80; W6 9113. Collected in Spain. Latitude 42 deg. 28' N. Longitude 7 deg. 15' W. Elevation 420 m. Quiroga.

PI 595000. Dactylis glomerata L.
Wild. ABY-BC 6967.79; W6 9114. Collected in Spain. Latitude 42 deg. 20' N. Longitude 7 deg. 15' W. Elevation 950 m. Puebla De Trives.

PI 595001. Dactylis glomerata L.
Wild. ABY-BC 6969.80; W6 9116. Collected in Spain. Latitude 42 deg. 34' N. Longitude 7 deg. 23' W. Elevation 570 m. Puebla Del Brollon.

PI 595002. Dactylis glomerata L.

PI 595003. Dactylis glomerata L.
Wild. ABY-BC 6978.80; W6 9118. Collected in Spain. Latitude 42 deg. 15' N. Longitude 7 deg. 49' W. Elevation 650 m. Taboadela.

PI 595004. Dactylis glomerata L.
Wild. ABY-BC 7003.80; W6 9119. Collected in Spain. Latitude 42 deg. 28' N. Longitude 8 deg. 16' W. Elevation 650 m. Beariz.

PI 595005. Dactylis glomerata L.
Wild. ABY-BC 7006.80; W6 9120. Collected in Spain. Latitude 42 deg. 23' N. Longitude 8 deg. 15' W. Elevation 600 m. Avion.

PI 595006. Dactylis glomerata L.
Wild. ABY-BC 7007.80; W6 9121. Collected in Spain. Latitude 42 deg. 23' N. Longitude 8 deg. 15' W. Elevation 600 m. Avion.

PI 595007. Dactylis glomerata L.
Wild. ABY-BC 7008.80; W6 9122. Collected in Spain. Latitude 42 deg. 15' N. Longitude 8 deg. 13' W. Elevation 400 m. Melon.

PI 595008. Dactylis glomerata L.
Wild. ABY-BC 7010.79; W6 9123. Collected in Spain. Latitude 43 deg. 21' N. Longitude 7 deg. 29' W. Elevation 550 m. Abadin.

PI 595009. Dactylis glomerata L.
Wild. ABY-BC 7045.80; W6 9125. Collected in Wales, United Kingdom. Latitude 52 deg. 29' N. Longitude 4 deg. 3' W. Elevation 15 m. Borth.

PI 595010. Dactylis glomerata L.
Wild. ABY-BC 7046.80; W6 9126. Collected in Wales, United Kingdom. Latitude 52 deg. 25' N. Longitude 3 deg. 55' W. Elevation 150 m. Goginan.

PI 595011. Dactylis glomerata L.
Wild. ABY-BC 7047.80; W6 9127. Collected in Wales, United Kingdom. Latitude 52 deg. 25' N. Longitude 4 deg. 5' W. Elevation 270 m. Aberystwyth.

PI 595012. Dactylis glomerata L.
Wild. ABY-BC 7050.81; W6 9129. Collected in Wales, United Kingdom. Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 400 m. Ponterwyd.

PI 595013. Dactylis glomerata L.
Wild. ABY-BC 7051.81; W6 9130. Collected in Wales, United Kingdom. Latitude 52 deg. 25' N. Longitude 3 deg. 55' W. Goginan.

PI 595014. Dactylis glomerata L.
Wild. ABY-BC 6944.79; W6 9148. Collected in Spain. Latitude 42 deg. 56' N. Longitude 7 deg. 25' W. Elevation 520 m. Corgo.

PI 595015. Dactylis glomerata L.
Wild. ABY-BC 6946.80; W6 9149. Collected in Spain. Latitude 43 deg. 5' N. Longitude 7 deg. 15' W. Elevation 680 m. Fontao.

PI 595016. Dactylis glomerata L.
Wild. ABY-BC 6964.79; W6 9151. Collected in Spain. Latitude 42 deg. 31' N. Longitude 7 deg. 37' W. Elevation 550 m. Panton.

PI 595017. Festuca arundinacea Schreber
Wild. ABY-BN 759.71; W6 9172. Collected in Italy. Latitude 44 deg. 5' N. Longitude 7 deg. 48' E. Elevation 1250 m. Mendatica.

PI 595018. Festuca pratensis Hudson
Wild. ABY-BF 951.73; W6 9196. Collected in Switzerland. Latitude 46 deg. 35' N. Longitude 6 deg. 56' E. Elevation 860 m. Semesales.

PI 595019. Festuca pratensis Hudson
Wild. ABY-BF 982.78; W6 9198.

PI 595020. Festuca pratensis Hudson
Wild. ABY-BF 1057.75; W6 9199. Collected in Italy. Latitude 44 deg. 12' N. Longitude 8 deg. 2' E. Elevation 1380 m. Caressio.

PI 595021. Festuca pratensis Hudson
Wild. ABY-BF 1068.78; W6 9200. Collected in Italy. Latitude 44 deg. 9'
N. Longitude 7 deg. 34' E. Elevation 1300 m. Colle Di Tende.

PI 595022. Festuca pratensis Hudson
Wild. ABY-BF 1075.75; W6 9201. Collected in Italy. Latitude 44 deg. 12' N. Longitude 7 deg. 34' E. Elevation 950 m. Limone Piemonte.

PI 595023. Festuca pratensis Hudson
Wild. ABY-BF 1084.75; W6 9202. Collected in Belgium. Latitude 51 deg. 2' N. Longitude 4 deg. 10' E. Elevation 10 m. Baasrode.

PI 595024. Festuca pratensis Hudson
Wild. ABY-BF 1086.75; W6 9203. Collected in Belgium. Latitude 49 deg. 53' N. Longitude 5 deg. 33' E. Elevation 480 m. Juseret.

PI 595025. Festuca pratensis Hudson
Wild. ABY-BF 1099.76; W6 9204. Collected in Italy. Latitude 45 deg. 52' N. Longitude 9 deg. 53' E. Elevation 420 m. Ponte Nossa.

PI 595026. Festuca pratensis Hudson

PI 595027. Festuca pratensis Hudson

PI 595028. Festuca pratensis Hudson
Wild. ABY-BF 1202.81; W6 9208. Collected in Romania. Latitude 47 deg. 50' N. Longitude 26 deg. 3' E. Elevation 410 m. Dornesti.

PI 595029. Festuca pratensis Hudson
Wild. ABY-BF 1203.81; W6 9209. Collected in Romania. Latitude 47 deg. 37' N. Longitude 26 deg. 18' E. Elevation 350 m. Suceava.

PI 595030. Festuca pratensis Hudson
Wild. ABY-BF 1205.81; W6 9211. Collected in Romania. Latitude 47 deg. 37' N. Longitude 26 deg. 18' E. Elevation 300 m. Suceava.

PI 595031. Festuca pratensis Hudson
Wild. ABY-BF 1208.81; W6 9212. Collected in Romania. Latitude 47 deg. 56' N. Longitude 23 deg. 53' E. Elevation 450 m. Sighet.

PI 595032. Festuca pratensis Hudson
Wild. ABY-BF 1209.81; W6 9213. Collected in Romania. Latitude 47 deg. 56' N. Longitude 23 deg. 53' E. Sighet.

PI 595033. Festuca pratensis Hudson
Wild. ABY-BF 1210.81; W6 9214. Collected in Romania. Latitude 45 deg. 51' N. Longitude 25 deg. 48' E. Elevation 600 m. Sfintu Gheorghe.

PI 595034. Festuca pratensis Hudson
Wild. ABY-BF 1211.82; W6 9215. Collected in Romania. Latitude 45 deg. 20' N. Longitude 25 deg. 33' E. Elevation 1575 m. Sinaia.

PI 595035. Festuca pratensis Hudson
Wild. ABY-BF 1224.82; W6 9216. Collected in Norway. Latitude 58 deg. 17' N. Longitude 6 deg. 40' E. Elevation 75 m. Flekkefjord.

PI 595036. Festuca pratensis Hudson

PI 595037. Festuca pratensis Hudson
Wild. ABY-BF 1231.82; W6 9222. Collected in Norway. Latitude 61 deg. 8' N. Longitude 8 deg. 33' E. Elevation 525 m. Grindaheim.

PI 595038. Festuca pratensis Hudson
Wild. ABY-BF 1233.82; W6 9223. Collected in Norway. Latitude 61 deg. 52' N. Longitude 9 deg. 10' E. Elevation 500 m. Vagamo.

PI 595039. Festuca pratensis Hudson
Wild. ABY-BF 1235.82; W6 9224. Collected in Norway. Latitude 61 deg. 19' N. Longitude 9 deg. 51' E. Elevation 825 m. Svatsum.

PI 595040. Festuca pratensis Hudson
Wild. ABY-BF 1237.82; W6 9226. Collected in Norway. Latitude 61 deg. 30' N. Longitude 10 deg. 12' E. Elevation 325 m. Ringebu.

PI 595041. Festuca pratensis Hudson
Wild. ABY-BF 1241.82; W6 9227. Collected in Norway. Latitude 60 deg. 50' N. Longitude 9 deg. 33' E. Elevation 880 m. Bagn.

PI 595042. Festuca pratensis ssp. apennina (De Notaris) Hegi
Wild. ABY-BF 1064.D76; W6 9232. Collected in Italy. Latitude 44 deg. 9' N. Longitude 7 deg. 34' E. Elevation 1340 m. Colle Di Tende.

PI 595043. Lolium perenne L.
Wild. ABY-BA 9792.81; W6 9306. Collected in Wales, United Kingdom. Latitude 52 deg. 23' N. Longitude 3 deg. 51' W. Elevation 300 m. Devil's Bridge.

PI 595044. Lolium perenne L.
Wild. ABY-BA 9798.82; W6 9311. Collected in Wales, United Kingdom. Latitude 51 deg. 57' N. Longitude 3 deg. 53' W. Elevation 100 m. Llangadog.

PI 595045. Lolium perenne L.
Wild. ABY-BA 9800.80; W6 9312. Collected in Wales, United Kingdom. Latitude 51 deg. 57' N. Longitude 3 deg. 34' W. Elevation 250 m. Sennybridge.

PI 595046. Lolium perenne L.
Wild. ABY-BA 9802.80; W6 9313. Collected in Wales, United Kingdom. Latitude 51 deg. 57' N. Longitude 3 deg. 34' W. Elevation 250 m. Sennybridge.

PI 595047. Lolium perenne L.
Wild. ABY-BA 9803.80; W6 9314. Collected in Wales, United Kingdom. Latitude 51 deg. 46' N. Longitude 3 deg. 38' W. Elevation 350 m. Glynneath.
PI 595048. Festuca fenas Lagasca
Wild. ABY-BN 1221.86; FRA001; W6 9180. Collected in France.

PI 595049. Festuca ovina L.
Wild. ABY-BL 2652.83; W6 9190. Collected in Wales, United Kingdom. Latitute 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 442 m. Ponterwyd.

PI 595050. Festuca ovina L.
Wild. ABY-BL 2653.83; W6 9191. Collected in Wales, United Kingdom. Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 351 m. Ponterwyd.

PI 595051. Festuca ovina L.
Wild. ABY-BL 2678.83OP; W6 9192. Collected in Wales, United Kingdom. Latitude 53 deg. 19' N. Longitude 3 deg. 49' W. Elevation 150 m. Llandudno.

PI 595052. Festuca ovina L.

PI 595053. Festuca pratensis Hudson
Wild. ABY-BF 1226.82; W6 9218. Collected in Norway. Latitude 58 deg. 53' N. Longitude 5 deg. 36' E. Elevation 25 m. Sola.

PI 595054. Festuca pratensis ssp. apennina (De Notaris) Hegi
Wild. ABY-BF 1066.D76; W6 9234. Collected in Italy. Latitude 44 deg. 9' N. Longitude 7 deg. 34' E. Elevation 1320 m. Colle Di Tende.

PI 595055. Festuca pratensis ssp. apennina (De Notaris) Hegi
Wild. ABY-BF 1079.E76; W6 9237. Collected in Italy. Latitude 44 deg. 33' N. Longitude 9 deg. 27' E. Elevation 1560 m. S. Stefano D'Aveto.

PI 595056. Festuca rubra L.
Wild. ABY-BL 2666.83; W6 9239. Collected in Norway. Latitude 60 deg. 50' N. Longitude 9 deg. 33' E. Elevation 880 m. Bagn.

PI 595057. Festuca rubra L.
Wild. ABY-BL 2668.83; W6 9241. Collected in Ireland. Latitude 51 deg. 36' N. Longitude 8 deg. 32' W. Elevation 50 m. Insale, Old Head of.

PI 595058. Festuca arundinacea Schreber

PI 595059. Festuca ovina L.
Wild. ABY-BL 2643.83; W6 9183. Collected in Wales, United Kingdom. Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 427 m. Ponterwyd.

PI 595060. Festuca ovina L.
Wild. ABY-BL 2644.83; W6 9184. Collected in Wales, United Kingdom.
Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 475 m. Ponterwyd.

PI 595061. Festuca ovina L.
Wild. ABY-BL 2645.83; W6 9185. Collected in Wales, United Kingdom.
Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 834 m. Ponterwyd.

PI 595062. Festuca ovina L.
Wild. ABY-BL 2648.83; W6 9187. Collected in Wales, United Kingdom.
Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 460 m. Ponterwyd.

PI 595063. Festuca ovina L.
Wild. ABY-BL 2650.83; W6 9188. Collected in Wales, United Kingdom.
Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 381 m. Ponterwyd.

PI 595064. Dactylis glomerata L.
Wild. ABY-BC 5449.81; W6 9065. Collected in France. Latitude 44 deg.
15' N. Longitude 2 deg. 50' E. Elevation 975 m. Viarouges.

PI 595065. Dactylis glomerata L.
Wild. ABY-BC 5401.81; W6 9060. Collected in France. Latitude 44 deg.
21' N. Longitude 2 deg. 34' E. Elevation 700 m. Rodez.

PI 595066. Dactylis glomerata L.
Wild. ABY-BC 5403.81; W6 9061. Collected in France. Latitude 44 deg.
21' N. Longitude 2 deg. 34' E. Elevation 750 m. Rodez.

PI 595067. Dactylis glomerata L.
Wild. ABY-BC 5445.81; W6 9062. Collected in France. Latitude 44 deg.
41' N. Longitude 2 deg. 50' E. Elevation 1040 m. Laguiole.

PI 595068. Dactylis glomerata L.
Wild. ABY-BC 5447.81; W6 9063. Collected in France. Latitude 24 deg.
42' N. Longitude 24 deg. 42' E. Elevation 800 m. Pont-De-Salars.

PI 595069. Lolium multiflorum Lam.
Wild. ABY-BB 1670.78; W6 9254. Collected in Italy. Latitude 44 deg. 39' N. Longitude 7 deg. 29' E. Elevation 350 m. Saluzzo.

PI 595070. Festuca arundinacea Schreber
Wild. ABY-BN 764.71; W6 9173. Collected in Italy. Latitude 44 deg. 2' N. Longitude 7 deg. 52' E. Elevation 1387 m. Rezzo.

PI 595071. Festuca arundinacea Schreber
Wild. ABY-BN 767.71; W6 9174. Collected in Italy. Latitude 46 deg. 29' N. Longitude 10 deg. 17' E. Elevation 1250 m. Bormio.

PI 595072. Festuca arundinacea Schreber
Wild. ABY-BN 1179.82; W6 9178. Collected in Romania. Latitude 47 deg. 12' N. Longitude 27 deg. 0' E. Elevation 150 m. Tirgu Frumos.

PI 595073. Festuca pratensis ssp. apennina (De Notaris) Hegi
Wild. ABY-BF 1070.B76; W6 9235. Collected in Italy. Latitude 44 deg. 9' N. Longitude 7 deg. 34' E. Elevation 1160 m. Colle Di Tende.

PI 595074. Festuca pratensis ssp. apennina (De Notaris) Hegi
Wild. ABY-BF 1078.D76; W6 9236. Collected in Italy. Latitude 44 deg. 33' N. Longitude 9 deg. 27' E. Elevation 1600 m. S. Stefano D'Aveto.

PI 595075. Lolium multiflorum Lam.
Wild. ABY-BB 1274.69; W6 9244. Collected in Italy. Latitude 45 deg. 19' N. Longitude 9 deg. 30' E. Elevation 83 m. Lodi.

PI 595076. Lolium multiflorum Lam.
Wild. ABY-BB 1658.78; W6 9248. Collected in Italy. Latitude 45 deg. 11' N. Longitude 7 deg. 43' E. Leini.

PI 595077. Agrostis sp.
Wild. ABY-BR 1245.82; W6 9053. Collected in England, United Kingdom. Latitude 53 deg. 39' N. Longitude 3 deg. 1' W. Elevation 5 m. Southport.

PI 595078. Agrostis sp.
Wild. ABY-BR 1249.82; W6 9054. Collected in Wales, United Kingdom. Latitude 53 deg. 16' N. Longitude 3 deg. 54' W. Penmaenmawr.

PI 595079. Cynosurus cristatus L.
Wild. ABY-BG 525.81; W6 9056. Collected in Wales, United Kingdom. Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 152 m. Ponterwyd.

PI 595080. Cynosurus cristatus L.
Wild. ABY-BG 526.81; W6 9057. Collected in Wales, United Kingdom. Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 137 m. Ponterwyd.

The following were developed by William Schapaugh, Kansas State University, Department of Agronomy, Throckmorton Hall, Manhattan, Kansas 66506, United States. Received 06/27/1996.


The following were donated by Stebbins Genetic Collection, Davis, California, United States. Received 1970.

PI 595082. Dactylis glomerata L.
Genetic. NSL 80047; TRIODE. Collected in Sweden.

PI 595083. Dactylis glomerata L.
Genetic. NSL 80045; TANDUS II. Collected in Sweden.

The following were developed by James E. Irvine, Texas A&M University System, Agricultural Experiment Station, Soil & Crop Sciences Department, Weslaco, Texas 78596-8399, United States; Benjamin L. Legendre, USDA, ARS, U.S.
The following were developed by Mark E. Sorrells, Cornell University, Dept. of Plant Breeding & Biometry, 252 Emerson Hall, Ithaca, New York 14853-1902, United States. Received 07/01/1996.

Cultivar. Purline. "NY BATAVIA"; NY73116-4W. PVP 9500249. Pedigree - NY6298-14 x Frederick. Soft white winter wheat. At booting flag leaf erect and straight, stems waxy bloom and yellow green, leaves yellow-green. At maturity stems hollow white. Spikes mid-dense, fusiform, awnletted, avg. length 8-9 cm. Glumes white, long, wide, shoulder oblique, beak acute. Kernels soft white, ovate, cheeks rounded, brush medium, crease narrow and mid-deep. Seed length avg. 6.8 mm, width 3.5 mm, avg. 36 g/1000 kernels. Moderate resistance to loose smut, leaf rust, and powdery mildew. Susceptible to stem rust. Partial resistance to wheat spindle streak mosaic virus.

The following were developed by Northrup King Company, United States. Received 07/03/1996.

Cultivar. "S00-55". PVP 9600257.

The following were developed by New Zealand Pastoral Agriculture Research Institute Ltd, New Zealand. Received 07/03/1996.

PI 595088. *Trifolium repens* L.
Cultivar. "GRASSLANDS DEMAND". PVP 9600258.

PI 595089. *Trifolium repens* L.
Cultivar. "GRASSLANDS SUSTAIN". PVP 9600259.
The following were developed by NDSU Research Foundation, North Dakota, United States. Received 07/03/1996.


The following were developed by Progeny Advanced Genetics, Inc., Salinas, California, United States. Received 07/03/1996.

PI 595091. *Lactuca sativa* L.
Cultivar. "SAVANNAH GREEN". PVP 9600262.

The following were developed by Rogers Seed Company, United States. Received 07/03/1996.

PI 595092. *Pisum sativum* L.
Cultivar. "SP18 SP770-1-18". PVP 9600263.

PI 595093. *Pisum sativum* L.
Cultivar. "SP6 SP770-1-6". PVP 9600264.

The following were developed by Agripro Seeds, Inc., United States. Received 07/03/1996.

PI 595094. *Triticum durum* Desf.
Cultivar. "DRESSLER". PVP 9600265.

The following were developed by Terrance P. Riordan, Nebraska Agricultural Experiment Station, University of Nebraska, 377 Plant Science, Lincoln, Nebraska 68583-0724, United States; Jeff Klingenberg, P.O. Box 60578, Phoenix, Arizona 85082, United States; P. G. Johnson, University of Nebraska-Lincoln, Dept. of Horticulture, 377 Plant Sciences, Lincoln, Nebraska 68583-0724, United States. Received 07/03/1996.

PI 595095. *Buchloe dactyloides* (Nutt.) Engelm.
Cultivar. "TATANKA"; NTG-1. CV-190; PVP 9600266. Pedigree - First and second generation maternal half-sib family generated from a back-cross of males on NE84-315. Turf-type buffalograss with improved quality, density, and leaf spot resistance, compared to other seeded buffalograss varieties when grown in central and northern portions of the U.S. Reduced vertical growth rate and produces female flowers that form close to the ground. Goes dormant earlier than southern adapted buffalograsses, but greens up earlier in spring. Smaller burs than other varieties. When not mowed, will produce inflorescences above turf canopy in ratio of approx. one female to one male.

The following were developed by Asgrow Seed Company, United States. Received 07/03/1996.

PI 595096. *Lactuca sativa* L.
The following were developed by Jacklin Seed Company, United States. Received 07/03/1996.

**PI 595097. Poa pratensis** L.
Cultivar. "CALIBER". PVP 9600275.

The following were developed by Virginia Agricultural Experiment Station, Blacksburg, Virginia, United States. Received 07/03/1996.

**PI 595098. Triticum aestivum** L., nom. cons.
Cultivar. "FEATHERSTONE 520". PVP 9600276.

The following were developed by Dan Phillips, University of Georgia, Department of Plant Pathology, Georgia Experiment Station, Experiment, Georgia 30223, United States; Richard S. Hussey, University of Georgia, College of Agric. and Envirn. Sciences, Department of Plant Pathology, Athens, Georgia 30602-7274, United States; H. Roger Boerma, University of Georgia, Department of Crop & Soil Science, 3111 Plant Sciences Building, Athens, Georgia 30602-7272, United States; S.L. Finnerty, University of Georgia, Dept. of Plant Pathology, Athens, Georgia 30602, United States; Bruce M. Luzzi, University of Guelph, Dept. of Crop Science, Guelph, Ontario N1G 2W1, Canada; John P. Tamulonis, University of Georgia, Dept. of Crop and Soil Sciences, Athens, Georgia, United States. Received 06/25/1996.

**PI 595099. Glycine max** (L.) Merr.
Breeding. Pureline. G93-9223. GP-181. Pedigree - F4 derived line from cross G83-559 x (G80-1515(2) x PI 230977). High resistance to Javanese root-knot nematode (Meloidogyne javanica) (Mj). Similar level of resistance to Mj as PI 230977, but higher seed yield. PI 230977 has highest level of resistance to Mj identified in soybean. Resistant to southern (M. incognita) and peanut (M. arenaria) root-knot nematodes, race 3 and race 14 of SCN, and bacterial pustule (Xanthomonas campestris pv. glycines). Maturity Group VII, matures about same day as Bryan and 6 d earlier than PI 230977. 5 cm shorter and similar lodging resistance as Bryan. Flowers white, tawny pubescence, tan pod walls, determinate growth habit. Yellow seed coat and black hilum.

The following were developed by Walter Graves, 7665 Volclay Drive, San Diego, California 92119-1219, United States. Received 06/28/1996.

**PI 595100. Trifolium alexandrinum** L.
Cultivar. Pureline. "SAIDI". Pedigree - Considered an Egyptian landrace that may have evolved in irrigated agriculture zone of Egypt since later half of first millennium A.D. Seeds obtained in 1994 from Dr. Ahmed Rammah, Field Crops Research Institute, Gamaa, Egypt, and multiplied at UC-Riverside under isolation conditions. Berseem clover, somewhat decumbent rather than erect winter annual landrace, evolved under irrigated agriculture in Egypt perhaps over last 1000 years. Commonly referred to as intermediate berseem clover type between multicut and
unicut types, since it has both basal and stem branching and can be cut
two to three times during winter-spring growing season. In Egypt, where
this type of berseem is commonly used, is considered a droughty type due
to unusually long tap root characteristic. Considered very nutritious
for livestock and commonly grown in Upper Nile River above Cairo. Growth
habit lower than other berseem types, has peculiar glaucous appearance
enabling one to distinguish it from other types. Due to somewhat
decumbent nature, is often sown with erect plant types such as barley
and/or wheat. Seed color predominantly yellow, approx. 400,000 seeds/kg.

The following were developed by J. Katzenelson, Volcani Institute of
Agricultural Res., Regional Experiment Station, Neve-Ya'Ar, Haifa, Israel;
Walter Graves, 7665 Volclay Drive, San Diego, California 92119-1219, United
States. Received 06/28/1996.

PI 595101. Trifolium alexandrinum L.
Cultivar. Pureline. "TAVOR"; Tabor. Pedigree - Derived from Egyptian
berseem landrace named Fahl, obtained in 1994 from the Hazera Ltd.
Company, Haifa, Israel. Multiplied at UC-Riverside under isolation
conditions. Development accredited to Dr. J. Katzenelson, Volcani
Agricultural Research Center, Bet Dagan, Israel. Upright winter annual
developed in Israel. Commonly referred to as unicut berseem clover type,
since is only stem branching and won't regrow after cutting. In Egypt,
where this type of berseem is commonly used, seed is broadcast in fall,
irrigated once and allowed to mature for animal forage, usually donkeys.
Sown on land needed for cropping in spring following late spring
cutting. May be sown with barley or wheat and often precedes cotton or
summer vegetables. Coarse plant, thick, hollow stems, long internodes,
very low leaf/stem ratio. Hay quality can be poor. Flowers in spring
much earlier than other types of berseem clovers. Susceptible to
Ascochyta. Poor winter hardiness. Can attain heights up to 80 cm in 100
d of growth. Seed color predominantly yellow, small percentage with
purple pigmentation, weight approx. 400,000 seeds/kg.

The following were collected by C. J. DeMooy, Colorado State University,
Colorado Agricultural Experiment Station, Department of Agronomy, Fort
Collins, Colorado, United States. Donated by A. E. Hall, University of
California, Department of Botany & Plant Sciences, Riverside, California
92521, United States. Received 02/01/1995.

PI 595102. Vigna unguiculata (L.) Walp. ssp. unguiculata
Cultivated. BOTS 70; UCR 853. Collected 09/01/1987 in Botswana.

PI 595103. Vigna unguiculata (L.) Walp. ssp. unguiculata
Cultivated. BOTS 279A; UCR 1079. Collected 09/01/1987 in Botswana.

PI 595104. Vigna unguiculata (L.) Walp. ssp. unguiculata
Cultivated. BOTS 514E; UCR 1319. Collected 09/01/1987 in Botswana.
Photosensitive, purple mottling.

The following were developed by Coastal Seeds, Inc., United States. Received
07/15/1996.
PI 595105. Lactuca sativa L.
Cultivar. "COWBOY". PVP 9600278.

PI 595106. Lactuca sativa L.
Cultivar. "WRANGLER". PVP 9600279.

The following were developed by Louisiana Agricultural Experiment Station, Louisiana, United States. Received 07/15/1996.

PI 595107. Gossypium hirsutum L.
Cultivar. "H1560". PVP 9600280.

The following were developed by FFR Cooperative, United States. Received 07/15/1996.

PI 595108. Glycine max (L.) Merr.
Cultivar. "FFR474". PVP 9600281.

PI 595109. Glycine max (L.) Merr.
Cultivar. "FFR514". PVP 9600282.

The following were developed by J. G. Boswell Company Cottonseed Breeding, United States. Received 07/15/1996.

PI 595110. Gossypium hirsutum L.
Cultivar. "ZOI". PVP 9600283.

PI 595111. Gossypium hirsutum L.
Cultivar. "DRIMA". PVP 9600284.

The following were developed by Brownfield Seed and Delinting Co., Inc., United States. Received 07/15/1996.

PI 595112. Gossypium hirsutum L.
Cultivar. "APACHE". PVP 9600285.

The following were developed by Ferry-Morse Seed Company, United States. Received 07/15/1996.

PI 595113. Capsicum annuum L.
Cultivar. "GUSTO". PVP 9600286.

The following were collected by D. Elliott. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

PI 595114. Bromus catharticus M. Vahl
Wild. 9054981; W6 10413. Collected 06/19/1989 in Alabama, United States.
The following were collected by Mike Materne, USDA, SCS, P. O. Box 16030, University Station, Baton Rouge, Louisiana 70893, United States. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

**PI 595115. Bromus catharticus** M. Vahl
Wild. 9054997; W6 10416. Collected 05/15/1989 in Louisiana, United States. Lafourse County.

The following were collected by James Wolfe, USDA, SCS, Suite 1321, Federal Building, 100 West Capitol Street, Jackson, Mississippi 39269, United States. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

**PI 595116. Bromus catharticus** M. Vahl

The following were collected by W.J. Kerr. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

**PI 595117. Bromus catharticus** M. Vahl
Wild. 9054961; W6 10421. Collected 05/19/1989 in Mississippi, United States. Jefferson Davis County.

The following were collected by W.J. Kerr; Hutchins. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

**PI 595118. Bromus catharticus** M. Vahl
Wild. 9054962; W6 10422. Collected 05/13/1989 in Mississippi, United States. Copiah County.

The following were collected by D.E. Manzanares. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

**PI 595119. Bromus catharticus** M. Vahl
Wild. 9054963; W6 10424. Collected 1992 in New Mexico, United States.

The following were collected by M.D. Conkling. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

**PI 595120. Bromus catharticus** M. Vahl
Wild. 9054971; W6 10426. Collected 05/30/1989 in Oklahoma, United States.

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Kiowa County.

The following were collected by G. Hardee. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

PI 595121. Bromus catharticus M. Vahl
Wild. 9054974; W6 10427. Collected 06/07/1989 in South Carolina, United States. Latitude 34 deg. 6' 55" N. Longitude 80 deg. 56' 18" W. Sand filled road shoulder on Brickyard Road, .5 miles from US Hwy 1, SCS State Office, Richland County, Columbia.

PI 595122. Bromus catharticus M. Vahl
Wild. 9054975; W6 10428. Collected 06/08/1989 in South Carolina, United States. Latitude 33 deg. 42' 26" N. Longitude 80 deg. 47' 2" W. Behind county office bldg., near farm supply bldg., SCS State Office, Calhoun County, Columbia.

The following were collected by J., Jr. Jackson. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

PI 595123. Bromus catharticus M. Vahl

The following were collected by S. Ellison. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

PI 595124. Bromus catharticus M. Vahl
Wild. 9054969; W6 10434. Collected 05/01/1989 in Texas, United States. Erath County.

The following were collected by G. Rainwater. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

PI 595125. Bromus catharticus M. Vahl
Wild. 9054977; W6 10435. Collected 05/20/1989 in Texas, United States. Guadalupe County.

The following were collected by R. Martinez, University of Cordoba, Cordoba, Argentina. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.

PI 595126. Bromus catharticus M. Vahl
The following were collected by A. Neisler. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.


The following were collected by A. Boozer. Donated by B. B. Billingsley, USDA, SCS, Plant Material Center, Route 3, Box 215A, Coffeeville, Mississippi 38922, United States. Received 04/24/1992.


The following were collected by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 11/02/1993.

PI 595129. Elymus caninus (L.) L. Wild. X93001; W6 12920. Collected 08/06/1993 in Xinjiang, China. Latitude 44 deg. 11' N. Longitude 86 deg. 54' E. Elevation 532 m. Hutubi Stud and Dairy Farm, Xinjiang.

The following were collected by Doug Johnson, USDA-ARS, Utah State University, Forage & Range Research Unit, Logan, Utah 84322-6300, United States; Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/02/1993. Donated by D.A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States.

PI 595130. Festuca ovina L. Wild. X93015; W6 12933. Collected 08/07/1993 in Xinjiang, China. Latitude 43 deg. 53' N. Longitude 86 deg. 22' E. Elevation 1550 m. Steep ungrazed slope above road, 77km southwest of Hutubi and 39km south of Dafeng, Xinjiang. Disturbed site, very large stand of Leymus angustus associated with Koeleria and Stipa species.

PI 595132. *Elymus mutabilis ssp. praecaespitosus* (Nevski) Tzvelev
Wild. X93019; W6 12937. Collected 08/07/1993 in Xinjiang, China.
Latitude 43 deg. 52' N. Longitude 86 deg. 21' E. Elevation 1600 m.
Diverse natural pasture used for hay cutting, gently rolling hills, 44km southwest of Dafeng, Xinjiang.

PI 595133. *Psathyrostachys juncea* (Fischer) Nevski
Wild. X93021; W6 12939. Collected 08/07/1993 in Xinjiang, China.
Latitude 43 deg. 52' N. Longitude 86 deg. 21' E. Elevation 1600 m.
Diverse natural pasture used for hay cutting, gently rolling hills, 44km southwest of Dafeng, Xinjiang.

PI 595134. *Elytrigia repens* (L.) Desv. ex Nevski
Wild. X93028; W6 12946. Collected 08/07/1993 in Xinjiang, China.
Latitude 43 deg. 50' N. Longitude 86 deg. 16' E. Elevation 1665 m. Town of Lao Ba Wan Zi, 100km from Hutubi, 43km southwest of Dafeng, Xinjiang. Natural pasture at base of Tien Shan Mountains, used for hay cutting, close to border of Pinus Tienshanica.

PI 595135. *Psathyrostachys juncea* (Fischer) Nevski
Wild. X93031; W6 12949. Collected 08/07/1993 in Xinjiang, China.
Latitude 43 deg. 51' N. Longitude 86 deg. 19' E. Elevation 1632 m. Dry sidehill 46km from Dafeng, Xinjiang. Psathyrostachys juncea dominant species.

PI 595136. *Elytrigia repens* (L.) Desv. ex Nevski
Wild. X93035; W6 12953. Collected 08/08/1993 in Xinjiang, China.
Latitude 43 deg. 56' N. Longitude 86 deg. 26' E. Elevation 1040 m. Along river drainage, 31km southwest of Dafeng, Xinjiang. Plant diversity immense.

PI 595137. *Achnatherum splendens* (Trin.) Nevski
Wild. X93041; W6 12959. Collected 08/08/1993 in Xinjiang, China.
Latitude 43 deg. 56' N. Longitude 86 deg. 26' E. Elevation 1040 m. Along river drainage, 31km southwest of Dafeng, Xinjiang. Plant diversity immense.

PI 595138. *Psathyrostachys juncea* (Fischer) Nevski
Wild. X93044; W6 12962. Collected 08/08/1993 in Xinjiang, China.
Latitude 43 deg. 49' N. Longitude 86 deg. 21' E. Elevation 1510 m. 45km southwest of Dafeng, Xinjiang. Plants located on sidehill associated with Medicago lupulina (very robust but immature).

PI 595139. *Elytrigia elongata* (Host) Nevski
Wild. X93047; W6 12965. Collected 08/08/1993 in Xinjiang, China.
Latitude 43 deg. 49' N. Longitude 86 deg. 21' E. Elevation 1510 m. 45km southwest of Dafeng, Xinjiang. Plants located on sidehill associated with Medicago lupulina (very robust but immature).

PI 595140. *Festuca ovina* L.
Wild. X93051; W6 12969. Collected 08/08/1993 in Xinjiang, China.
Latitude 43 deg. 49' N. Longitude 86 deg. 21' E. Elevation 1510 m. 45km southwest of Dafeng, Xinjiang. Plants located on sidehill associated with Medicago lupulina (very robust but immature).
PI 595141. Elytrigia repens (L.) Desv. ex Nevski
Wild. X93060; W6 12977. Collected 08/10/1993 in Xinjiang, China. 
Latitude 44 deg. 6' N. Longitude 86 deg. 2' E. Elevation 900 m. Roadside 
ditch, 44km from Shihezi and 31km from Shihezi Rd. on way to Zinichuan 
Stud Farm, Xinjiang.

PI 595142. Psathyrostachys juncea (Fischer) Nevski
Wild. X93064; W6 12980. Collected 08/10/1993 in Xinjiang, China. 
Latitude 44 deg. 44' N. Longitude 85 deg. 52' E. Elevation 1120 m. 
Zinichuan Stud Farm, Xinjiang. Site characterized by fenced pasture that 
is only grazed during winter. Fenced since 1979. Areas outside fence 
heavily grazed. Artemisia bolensis observed but immature.

PI 595143. Leymus karelinii (Turcz.) Tzvelev
Wild. X93065; W6 12981. Collected 08/10/1993 in Xinjiang, China. 
Latitude 44 deg. 0' N. Longitude 85 deg. 52' E. Elevation 1120 m. 
Zinichuan Stud Farm, Xinjiang. Site characterized by fenced pasture that 
is only grazed during winter. Fenced since 1979. Areas outside fence 
heavily grazed. Artemisia bolensis observed but immature.

PI 595144. Achnatherum splendens (Trin.) Nevski
Wild. X93066; W6 12982. Collected 08/10/1993 in Xinjiang, China. 
Latitude 44 deg. 0' N. Longitude 85 deg. 52' E. Elevation 1120 m. 
Zinichuan Stud Farm, Xinjiang. Site characterized by fenced pasture that 
is only grazed in winter. Fenced since 1979. Areas outside fence 
heavily grazed. Artemisia bolensis observed but immature.

PI 595145. Festuca ovina L.
Wild. X93067; W6 12983. Collected 08/10/1993 in Xinjiang, China. 
Latitude 44 deg. 0' N. Longitude 85 deg. 52' E. Elevation 1120 m. 
Zinichuan Stud Farm, Xinjiang. Site characterized by fenced pasture that 
is only grazed in winter. Fenced since 1979. Areas outside fence 
heavily grazed. Artemisia bolensis observed but immature.

PI 595146. Festuca ovina L.
Wild. X93081; W6 12997. Collected 08/11/1993 in Xinjiang, China. 
Latitude 44 deg. 9' N. Longitude 84 deg. 38' E. Elevation 1620 m. 
Natural pasture at base of Tien Shan Mountains, approx 65km south of 
Usu, Xinjiang.

PI 595147. Elytrigia repens (L.) Desv. ex Nevski
Wild. X93086; W6 13002. Collected 08/11/1993 in Xinjiang, China. 
Latitude 44 deg. 9' N. Longitude 84 deg. 38' E. Elevation 1620 m. 
Natural pasture at base of Tien Shan Mountains, approx. 65km south of 
Usu, Xinjiang.

PI 595148. Leymus angustus (Trin.) Pilger
Wild. X93102; W6 13013. Collected 08/11/1993 in Xinjiang, China. 
Latitude 44 deg. 11' N. Longitude 84 deg. 33' E. Elevation 1240 m. Along 
ditchway that follows road in solid stands, Xinjiang. Fertility good.

PI 595149. Elymus sibiricus L.
Wild. X93100; W6 13016. Collected 08/11/1993 in Xinjiang, China. 
Latitude 44 deg. 10' N. Longitude 84 deg. 34' E. Elevation 1500 m. 
Natural pasture just before Chanjing Farm, Xinjiang.
PI 595150. Achnatherum splendens (Trin.) Nevski
Wild. X93108; W6 13021. Collected 08/12/1993 in Xinjiang, China.
Latitude 44 deg. 34' N. Longitude 83 deg. 55' E. Elevation 385 m. Gultu Farm, Xinjiang. Farm characterized by being very dry with high accumulation of salt due to excessive irrigation. Dominant species Achnatherum splendens. Some very large stands of Leymus secalinus growing in very harsh conditions.

PI 595151. Elymus dahuricus Turcz. ex Griseb. ssp. dahuricus
Wild. X93110; W6 13023. Collected 08/12/1993 in Xinjiang, China.
Latitude 44 deg. 34' N. Longitude 83 deg. 55' E. Elevation 385 m. Gultu Farm, Xinjiang. Farm characterized by being very dry with high accumulation of salt due to excessive irrigation. Dominant species Achnatherum splendens. Some very large stands of Leymus secalinus growing in very harsh conditions.

PI 595152. Psathyrostachys juncea (Fischer) Nevski
Wild. X93114; W6 13027. Collected 08/14/1993 in Xinjiang, China.
Latitude 44 deg. 37' N. Longitude 81 deg. 43' E. Elevation 1200 m. Drainage ditch along road to Salimu Lake from Bole, Xinjiang.

PI 595153. Alopecurus pratensis L.
Wild. X93126; W6 13039. Collected 08/14/1993 in Xinjiang, China.
Latitude 44 deg. 31' N. Longitude 81 deg. 8' E. Elevation 2065 m. South side of Salimu Lake, about 3km from main road, Xinjiang. Most productive site to date.

PI 595154. Festuca ovina L.
Wild. X93130; W6 13042. Collected 08/14/1993 in Xinjiang, China.
Latitude 44 deg. 31' N. Longitude 81 deg. 8' E. Elevation 2065 m. South side of Salimu Lake, about 3km from main road, Xinjiang. Most productive site to date.

PI 595155. Psathyrostachys juncea (Fischer) Nevski
Wild. X93140; W6 13049. Collected 08/14/1993 in Xinjiang, China.
Latitude 44 deg. 48' N. Longitude 81 deg. 10' E. Elevation 1700 m. About 10km lower on road to Wenchuan County than previous site from Lake Salimu, Xinjiang. Heavily grazed and very rocky however, grass diversity good.

PI 595156. Elymus sibiricus L.
Wild. X93144; W6 13053. Collected 08/15/1993 in Xinjiang, China.
Latitude 45 deg. 2' N. Longitude 81 deg. 7' E. Elevation 1300 m. Gravel soil along irrigation ditch, Xinjiang.

PI 595157. Elytrigia repens (L.) Desv. ex Nevski
Wild. X93152; W6 13061. Collected 08/15/1993 in Xinjiang, China.
Latitude 45 deg. 2' N. Longitude 81 deg. 7' E. Elevation 1300 m. Gravel soil along irrigation ditch, Xinjiang.

PI 595158. Festuca ovina L.
Wild. X93154; W6 13063. Collected 08/15/1993 in Xinjiang, China.
Latitude 45 deg. 3' N. Longitude 81 deg. 5' E. Elevation 1400 m. Heavily grazed rocky hill (memorial monument present), Xinjiang.
PI 595159. *Leymus angustus* (Trin.) Pilger
Wild. X93155; W6 13064. Collected 08/15/1993 in Xinjiang, China.
Latitude 45 deg. 3' N. Longitude 81 deg. 5' E. Elevation 1400 m. Heavily grazed rocky hill (memorial monument present), Xinjiang.

PI 595160. *Festuca ovina* L.
Wild. X93156; W6 13065. Collected 08/15/1993 in Xinjiang, China.
Latitude 45 deg. 10' N. Longitude 81 deg. 33' E. Elevation 1400 m. Heavily grazed hill on edge of restricted sites near the Kazakhstan border, Xinjiang.

PI 595161. *Achnatherum splendens* (Trin.) Nevski
Wild. X93157; W6 13066. Collected 08/15/1993 in Xinjiang, China.
Latitude 45 deg. 10' N. Longitude 81 deg. 33' E. Elevation 1400 m. Heavily grazed hill on edge of restricted sites near the Kazakhstan border.

PI 595162. *Elymus sibiricus* L.
Wild. X93169; W6 13075. Collected 08/18/1993 in Xinjiang, China.
Latitude 44 deg. 7' N. Longitude 87 deg. 58' E. Elevation 1680 m. Uncut, non-irrigation mountain pasture. Bottom of slope at Y in road 4km from main road to Tien Shi Lake (Heavenly Lake) on left side of road going east, Xinjiang.

PI 595163. *Elymus gmelinii* (Ledeb.) Tzvelev
Wild. X93171; W6 13077. Collected 08/18/1993 in Xinjiang, China.
Latitude 44 deg. 7' N. Longitude 87 deg. 58' E. Elevation 1680 m. Uncut, non-irrigated mountain pasture. Bottom of slope at Y in road 4km from main road to Tien Shi Lake (Heavenly Lake) on left side of road going east, Xinjiang.

PI 595164. *Pseudoroegneria strigosa ssp. aegilopoides* (Drobov) A. Love
Wild. X93173; W6 13079. Collected 08/18/1993 in Xinjiang, China.
Latitude 44 deg. 7' N. Longitude 87 deg. 58' E. Elevation 1680 m. Uncut, non-irrigated mountain pasture. Bottom of slope at Y in road 4km from main road to Tien Shi Lake (Heavenly Lake) on left side of road going east, Xinjiang.

PI 595165. *Psathyrostachys juncea* (Fischer) Nevski
Wild. X93174; W6 13080. Collected 08/18/1993 in Xinjiang, China.
Latitude 44 deg. 7' N. Longitude 87 deg. 58' E. Elevation 1680 m. Uncut, non-irrigated mountain pasture. Bottom of slope at Y in road 4km from main road to Tien Shi Lake (Heavenly Lake) on left side of road going east, Xinjiang.

PI 595166. *Dactylis glomerata* L.
Wild. X93179; W6 13085. Collected 08/18/1993 in Xinjiang, China.
Latitude 44 deg. 7' N. Longitude 87 deg. 58' E. Elevation 1680 m. Uncut, non-irrigated mountain pasture. Bottom of slope at Y in road 4km from main road to Tien Shi Lake (Heavenly Lake) on left side of road going east, Xinjiang.

PI 595167. *Festuca ovina* L.
Wild. X93180; W6 13086. Collected 08/18/1993 in Xinjiang, China.
Latitude 44 deg. 7' N. Longitude 87 deg. 58' E. Elevation 1670 m. Uncut, non-irrigated mountain pasture. Bottom of slope along road 2km from main road to Tien Shi Lake (Heavenly Lake) on left side of road going east, Xinjiang. Dominant species Stipa capillata.

PI 595168. *Psathyrostachys juncea* (Fischer) Nevski
Wild. X93182; W6 13088. Collected 08/18/1993 in Xinjiang, China. Latitude 44 deg. 7' N. Longitude 87 deg. 58' E. Elevation 1670 m. Uncut, non-irrigated mountain pasture. Bottom of slope along road 2km from main road to Tien Shi Lake (Heavenly Lake) on left side of road going east, Xinjiang.

PI 595169. *Elymus sibiricus* L.
Wild. X93185; W6 13091. Collected 08/20/1993 in Xinjiang, China. Latitude 43 deg. 46' N. Longitude 89 deg. 27' E. Elevation 1300 m. Silty clay, 48km south of Chitai, very dry rolling foot hills used for winter pastures, Xinjiang.

PI 595170. *Festuca ovina* L.
Wild. X93192; W6 13098. Collected 08/20/1993 in Xinjiang, China. Latitude 43 deg. 46' N. Longitude 89 deg. 27' E. Elevation 1300 m. Silty clay, 48km south of Chitai, very dry rolling foot hills used for winter pastures, Xinjiang.

PI 595171. *Elytrigia repens* (L.) Desv. ex Nevski
Wild. X93202; W6 13107. Collected 08/20/1993 in Xinjiang, China. Latitude 43 deg. 44' N. Longitude 89 deg. 27' E. Elevation 1400 m. Silty clay, 53km south of Chitai, very dry rolling foot hills used for winter pastures, Xinjiang. Dominate species *Medicago varia*. Winter pasture associated with *Artemisia boralensis*, *Kochia postrata*, and *Festuca ovina*.

PI 595172. *Pseudoroegneria strigosa ssp. aegilopoides* (Drobov) A. Love
Wild. X93204; W6 13109. Collected 08/21/1993 in Xinjiang, China. Latitude 43 deg. 41' N. Longitude 89 deg. 18' E. Elevation 1870 m. Loam soil, middle pasture, 44km south of Jimsar, east sloping steep hillside pasture near Chuan Zi Jie village, Xinjiang. Diversity immense.

PI 595173. *Dactylis glomerata* L.
Wild. X93208; W6 13113. Collected 08/21/1993 in Xinjiang, China. Latitude 43 deg. 41' N. Longitude 89 deg. 18' E. Elevation 1870 m. Loam soil, middle pasture, 44km south of Jimsar, east sloping steep hillside pasture near Chuan Zi Jie Village, Xinjiang. Diversity immense.

PI 595174. *Elymus sibiricus* L.
Wild. X93218; W6 13123. Collected 08/21/1993 in Xinjiang, China. Latitude 43 deg. 41' N. Longitude 89 deg. 18' E. Elevation 1870 m. Loam soil, middle pasture, 44km south of Jimsar, east sloping steep hillside pasture near Chuan Zi Jie Village, Xinjiang. Diversity immense.

PI 595175. *Leymus angustus* (Trin.) Pilger
Wild. X93226; W6 13130. Collected 08/24/1993 in Xinjiang, China. Latitude 43 deg. 48' N. Longitude 87 deg. 73' E. Elevation 1600 m. High winter pasture at Tu Juan south of Xiejago Stud Farm, 90km S & E of Urumqi, lowland seepage, upper sites very dry. Bottom lands clay loam, side hills gravelly. Dominant species include *Artemisia boralensis*, *Stipa*
capillata, Festuca ovina.

**PI 595176. Elygrigia repens** (L.) Desv. ex Nevski
Wild. X93228; W6 13132. Collected 08/24/1993 in Xinjiang, China.
Latitude 43 deg. 48' N. Longitude 87 deg. 51' E. Elevation 1600 m. High
winter pasture at Tu Juan south of Xiejago Stud Farm, 90km S & E of
Urumqi, lowland seepage, upper sites very dry. Bottom lands clay loam,
side hills gravely. Dominant species Artemisa boralensis, Stipa
capillata, Festuca ovina.

**PI 595177. Psathyrostachys juncea** (Fischer) Nevski
Wild. X93233; W6 13137. Collected 08/24/1993 in Xinjiang, China.
Latitude 43 deg. 48' N. Longitude 87 deg. 51' E. Elevation 1600 m. High
winter pasture at Tu Juan south of Xiejago Stud Farm, 90km S & E of
Urumqi, lowland seepage, upper sites very dry. Bottom lands clay loam,
side hills gravely. Dominant species include Artemisa boralensis, Stipa
capillata, Festuca ovina.

**PI 595178. Festuca ovina** L.
Wild. X93235; W6 13139. Collected 08/24/1993 in Xinjiang, China.
Latitude 43 deg. 48' N. Longitude 87 deg. 51' E. Elevation 1600 m. High
winter pasture at Tu Juan south of xiejago Stud Farm, 90km S & E of
Urumqi, lowland seepage, upper sites very dry. Bottom lands clay loam,
side hills gravely. Dominant species Artemisa boralensis, Stipa
capillata, Festuca ovina.

**PI 595179. Achnatherum inebrians** (Hance) Keng
Wild. X93240; W6 13144. Collected 08/24/1993 in Xinjiang, China.
Latitude 43 deg. 48' N. Longitude 87 deg. 51' E. Elevation 1600 m. High
winter pasture at Tu Juan south of xiejago Stud Farm, 90km S & E of
Urumqi, lowland seepage, upper sites very dry. Bottom lands clay loam,
side hills gravely. Dominant species include Artemisa boralensis, Stipa
capillata, Festuca ovina.

**PI 595180. Elymus sibiricus** L.
Wild. X93241; W6 13145. Collected 08/24/1993 in Xinjiang, China.
Latitude 43 deg. 48' N. Longitude 87 deg. 51' E. Elevation 1600 m. High
winter pasture at Tu Juan south of xiejago Stud Farm, 90km S & E of
Urumqi, lowland seepage, upper sites very dry. Bottom lands clay loam,
side hills gravely. Dominant species include Artemisa boralensis, Stipa
capillata, Festuca ovina.

**PI 595181. Achnatherum inebrians** (Hance) Keng
Wild. X93248; W6 13152. Collected 08/24/1993 in Xinjiang, China.
Latitude 43 deg. 49' N. Longitude 87 deg. 52' E. Elevation 1500 m.
Lowland bench above river, silty clay soil, gentle slope, heavily grazed
pasture at Tu Juan south of xiejago Stud Farm, 60km south and east of
Urumqi, Xinjiang. Dominate species Achnatherum splendens and A.
inebrians.

**PI 595182. Elymus sibiricus** L.
Wild. X93254; W6 13158. Collected 08/24/1993 in Xinjiang, China.
Latitude 43 deg. 51' N. Longitude 87 deg. 52' E. Elevation 1250 m. 54km
south and east of Urumqi, along margins of wheat fields on the Gango
Stud Farm, Xinjiang.
PI 595183. **Leymus angustus** (Trin.) Pilger
Wild. X93256; W6 13160. Collected 08/24/1993 in Xinjiang, China.
Latitude 43 deg. 50' N. Longitude 87 deg. 55' E. Elevation 1750 m. West
exposure slope in foothill mountains, gravelly soil, 50km south and east
of Urumqi, Xinjiang. Large stand of legumes dominated by Onobrychis and
Medicago varia.

PI 595184. **Psathyrostachys juncea** (Fischer) Nevski
Wild. X93257; W6 13161. Collected 08/26/1993 in Xinjiang, China.
Latitude 43 deg. 51' N. Longitude 87 deg. 56' E. Elevation 1470 m. Silty
loam soil, very dry lowland, margin of dryland wheat field, 50km south
and east of Urumqi, Xinjiang.

The following were collected by Kay H. Asay, USDA, ARS, Forage & Range
Research Unit, Utah State University - UMC 6300, Logan, Utah 84322-6300,
United States. Donated by Thomas A. Jones, USDA-ARS, Forage and Range
Research, Utah State University, Logan, Utah 84322-6300, United States.
Received 12/09/1993.

PI 595185. **Elymus lanceolatus** (Scribner & J. G. Smith) Gould ssp.
lanceolatus
Soda Springs, Caribou County.

PI 595186. **Elymus lanceolatus** (Scribner & J. G. Smith) Gould ssp.
lanceolatus
Wild. A10 rip.; Acc:517; W6 14635. Collected in Idaho, United States. 8m
north Rexburg, Fremont County.

The following were collected by Dave Stout, Washington State University,
Regional Plant Introduction Station, Johnson Hall, Room 61, Pullman,
Washington 99164-6402, United States; A. M. Davis, USDA, ARS, Regional Plant
Introduction Station, 59 Johnson Hall, Pullman, Washington 99164-6402, United
States. Donated by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah
State University, Logan, Utah 84322-6300, United States. Received 12/09/1993.

PI 595187. **Elymus wawawaiensis** ined.
Wild. D&S 107; Acc:257; W6 14637. Collected in Washington, United States.
Steptoe Canyon, south Colton, Whitman County.

PI 595188. **Elymus wawawaiensis** ined.
2m north highway 12 on Howell Road, Garfield County.

PI 595189. **Elymus wawawaiensis** ined.
Wild. D&S 114 (mix 1); Acc:262; W6 14639. Collected in Washington, United
States. 1m south Asotin on highway 129, Asotin County.
Originally mixed with Pseudoroegneria spicata.

PI 595190. **Elymus wawawaiensis** ined.
Northwest Colton on Wawawai Road, Whitman.
PI 595191. *Pseudoroegneria spicata* (Pursh) A. Love
Wild. K46; Acc:222; W6 14648. Collected in Washington, United States. 3m southeast Wawawai Park on Wawawai Road, Whitman County.

PI 595192. *Pseudoroegneria spicata* (Pursh) A. Love

PI 595193. *Pseudoroegneria spicata* (Pursh) A. Love
Wild. D&S 134; Acc:275; W6 14651. Collected in Washington, United States. Southwest Colfax at Union Plat and Almota Roads, Whitman County.

PI 595194. *Pseudoroegneria spicata* (Pursh) A. Love
Wild. B56; Acc:698; W6 14653. Collected in Montana, United States. 0.5m west Lolo on highway 12, Missoula County.

PI 595195. *Pseudoroegneria spicata* (Pursh) A. Love
Wild. B57; Acc:699; W6 14654. Collected in Idaho, United States. 5m south Salmon on highway 93, Lemhi County.

PI 595196. *Pseudoroegneria spicata* (Pursh) A. Love
Wild. B101; Acc:702; W6 14657. Collected in Montana, United States. 7m south Darby on highway 93, Ravalli County.

PI 595197. *Cynodon aethiopicus* W. Clayton & Harlan
much more like C. dactylon, but rhizomes wanting and growth habit quite distinctive.

The following were developed by Robert Dunn, Montana State University, Department of Plant & Soil Science, Bozeman, Montana 59717-0002, United States; Gilbert Stallknecht, Montana State University, Central Agric. Research Center, HC 90, Box 20, Moccasin, Montana 59462, United States; Raymond L. Ditterline, Montana State University, Department of Plant and Soil Science, Bozeman, Montana 59717-0312, United States; J.G. Scheetz, National Plant Materials Center, National Resources Conservation Service, Route 1, Box 1189, Bridger, Minnesota 59014-9718, United States; David M. Wichman, Central Agricultural Research Center, HC90-Box 20, Moccasin, Montana 59462, United States; J.L. Eckhoff, Montana State University, Eastern Agric. Research Center, Sidney, Montana 59270, United States; Leon E. Welty, Montana State University, Northwestern Agric. Research Center, Kalispell, Montana, United States; H.F. Bowman, Montana State University, Dept. of Plant, Soil & Environmental Sciences, Bozeman, Montana 59717, United States; David Sands, Montana State University, Department of Plant Pathology, Bozeman, Montana 59717, United States; M. Majerus, USDA-NRCS Plant Materials Ctr., Bridger, Montana 59014, United States. Received 07/11/1996.

PI 595198. Eragrostis tef (Zuccagni) Trotter

The following were developed by Chris Clark, Louisiana State University, Department of Plant Pathology, & Crop Physiology, Baton Rouge, Louisiana 70803-1720, United States; Don LaBonte, Louisiana State University, Department of Horticulture, Julian C. Miller Hall, Baton Rouge, Louisiana 70803, United States; W.A. Mulkey, Sweet Potato Research Station, P.O. Box 120, Chase, Louisiana 71324, United States; L.H. Rolston, Louisiana State University, Department of Entomology, Baton Rouge, Louisiana 70803, United States; J.M. Cannon, Louisiana Cooperative Extension Service, Louisiana, United States; P.W. Wilson, Louisiana State University, Department of Horticulture, Baton Rouge, Louisiana 70803, United States. Received 06/1996.

PI 595199. Ipomoea batatas (L.) Lam. var. batatas
Cultivar. "DARBY"; L87-59. Pedigree - Originated in 1987 as a seedling from a polycross nursery. Female lineage L83-523 and W-151. Characteristics similar to Beauregard but with potential for earlier and improved production in sandy soils. Purple stemmed vines that begin fading gradually, =20cm from apex, to green with purple mottling. Canopy biomass similar to Centennial and covers soils surface completely. Skin dark rose at harvest, fades slightly in storage, and becomes smoother. Cortex 3-4mm in depth, sometimes light yellow, and flesh uniformly orange. Intermediate resistance for soil rot (Streptomyces ipomoeae). Resistant to fusarium wilt or stem rot (Fusarium oxyspororum). Susceptible to southern root-knot nematode (Meloidogyne incognita) and reniform
nematode (Rotylenchulus reniformis). Resistant to development of internal cork, fusarium root rot (Fusarium solani), bacterial root rot (Erwinia chrysanthemi), Rhizopus soft rot (Rhizopus stolonifer). Incidence of circular spot (Sclerotium rolfsii) low. Plants straight, sturdy, well suited for mechanical harvesting and planting.

The following were developed by Graves Gillaspie, USDA, ARS, University of Georgia, Plant Genetic Resources Conservation Unit, Griffin, Georgia 30223-1797, United States; JoAnn Wright, USDA, ARS, University of Georgia, Plant Genetic Resources Conservation Unit, Griffin, Georgia 30223-1797, United States. Received 07/19/1996.

PI 595200. Citrullus lanatus (Thunb.) Matsum. & Nakai
Breeding. WM-1. Pedigree - Selection from PI 189316 (origin Zaire). Watermelon breeding line resistant to watermelon mosaic virus 2 (WMV). Resistant to infection by the FC-1656 strain of WMV prevalent in Florida and demonstrates resistance in the greenhouse to the prevalent isolates of the virus from Arizona, California, Israel, Italy and New York. In addition, plants that do become infected demonstrate milder symptoms than those produced in more susceptible lines.

PI 595201. Citrullus lanatus (Thunb.) Matsum. & Nakai
Breeding. WM-2. Pedigree - Selection from PI 189317 (origin Zaire). Watermelon breeding line resistant to mosaic virus 2 (WMV). Resistant to infection by the FC-1656 strain of WMV prevalent in Florida and demonstrates resistance in the greenhouse to the prevalent isolates of the virus from Arizona, California, Israel, Italy and New York. In addition, plants that do become infected demonstrate milder symptoms than those produced in more susceptible lines.

PI 595202. Citrullus lanatus (Thunb.) Matsum. & Nakai
Breeding. WM-3. Pedigree - Selection from PI 248178 (origin Zaire). Watermelon breeding line resistant to mosaic virus 2 (WMV). Resistant to infection by the FC-1656 strain of WMV prevalent in Florida and demonstrates resistance in the greenhouse to the prevalent isolates of the virus from Arizona, California, Israel, Italy and New York. In addition, plants that do become infected demonstrate milder symptoms than those produced in more susceptible lines.

The following were developed by Graves Gillaspie, USDA, ARS, University of Georgia, Plant Genetic Resources Conservation Unit, Griffin, Georgia 30223-1797, United States; JoAnn Wright, USDA, ARS, University of Georgia, Plant Genetic Resources Conservation Unit, Griffin, Georgia 30223-1797, United States. Donated by Joe Norton, Auburn University, Department of Horticulture, Auburn, Alabama 36849, United States. Received 12/18/1990.

PI 595203. Citrullus lanatus (Thunb.) Matsum. & Nakai
Breeding. WM-4; Grif 9459. Pedigree - Selection from Egun (origin Nigeria). Egusi type melon with WMV2 disease resistance. Resistant to infection by the FC-1656 strain of WMV prevalent in Florida and demonstrates resistance in the greenhouse to the prevalent isolates of the virus from Arizona, California, Israel, Italy and New York. In addition, plants that do become infected demonstrate milder symptoms
than those produced in more susceptible lines. Seed tan.

The following were developed by David J. Andrews, University of Nebraska, Deptartment of Agronomy, Lincoln, Nebraska 68503, United States; S.C. Gupta, Int. Crops Res. Inst. for the Semi-Arid Tropics, Western and Central Africa Region, IITA Office, Sabo Bakin Zuwo Road, Kano, Kano, Nigeria; F.R. Muza, University of Florida, Department of Pathology, P.O. Box 110680, Gainesville, Florida 32611-0680, United States. Received 07/24/1996.

PI 595204. Eleusine coracana (L.) Gaertner
Genetic. Inbred. INFM 95001. GS-1. Pedigree - From a single male sterile plant found in M2 progeny derived from SDFM 63 (=IE3318 from Zimbabwe). Male sterile and fertile plants segregate in 1:1 ratio. At flowering, male sterile heads are easily detected as exserted and anthers are fewer in number, about one-fifth normal size and light cream color instead of creamy yellow. At grain maturity, open-pollinated male sterile heads exhibit incomplete seed set. Threshing percentage of fertile plants normal (74.4%), but lower in (13.9%) male sterile plants. Individual grain mass heavier (3.54mg) in male sterile plants than fertile plants (3.02mg). Mean plant height 1.29m, and time to 75% heading 94 days. Productive tillers per plant 6.35. Grains round and white. Seed dormancy present for 3-4 weeks after harvest.

The following were developed by J.M. Lasa, Aula Dei Experimental Station CSIC, Associated Laboratory for Agronomy and Environment, Dept. of Genetics and Plant Production, Zaragoza-50080, Spain; P. Gracia, Estacion Experimental de Aula Dei, CSIC, Avda. Montanana 177, P.O. Box 202, Spain; E. Igartua, Aula Dei Experimental Station CSIC, Associated Laboratory of Agronomy and Environment, Dept. of Genetics and Plant Production, Zaragoza-50080, Spain; C. Perez-Pena, Aula Dei Experimental Station CSIC, Associated Laboratory for Agronomy and Environment, P.O. Box 202, Zaragoza-50080, Spain. Received 09/24/1996.

PI 595205. Sorghum bicolor (L.) Moench

PI 595206. Sorghum bicolor (L.) Moench

PI 595207. Sorghum bicolor (L.) Moench
under limited irrigation. Maturity medium. Two/three dwarf height. Plants vigorous, large panicles. Seed size medium-large (29.4g per 1000 seed). Shows improved grain yield compared with source population.

PI 595208. Sorghum bicolor (L.) Moench

The following were developed by Chocolate Bayou Company, United States. Received 1978.

PI 595209. Oryza sativa L.

The following were developed by Alexandria Seed Co., Inc., United States. Received 1979.

PI 595210. Oryza sativa L.
Cultivar. Pureline. "BELLEVUE". PVP 7800076.

PI 595211. Oryza sativa L.

The following were developed by R.J. Jacquinot, Greenbush Seed and Supply, United States; S.M. Jacquinot, Greenbush Seed and Supply, United States. Received 1978.

PI 595212. Triticum aestivum L., nom. cons.

The following were developed by North American Plant Breeders, Inc., United States. Received 1978.

PI 595213. Triticum aestivum L., nom. cons.

The following were developed by Douglass W. King Company, United States. Received 1978.

PI 595214. Triticum aestivum L., nom. cons.

PI 595215. Triticum aestivum L., nom. cons.
The following were developed by Seed Research, Inc., United States. Received 1979.


The following were collected by A. M., Jr. Andreasen, 4487 Lafayette Street, Marianna, Florida 32446-3412, United States. Donated by Ken H. Quesenberry, University of Florida, Department of Agronomy, 304 Newell Hall, Gainesville, Florida 32611-0500, United States. Received 07/03/1996.


The following were developed by FMC Corporation, Agricultural Chemical Division, P.O. Box 3091, Modesto, California 95353, United States. Received 1974.


The following were developed by University Patents, Inc., United States. Received 1979.


The following were developed by Asgrow Seed Company, United States. Received 1978.


The following were developed by Ring Around Products, Inc., United States. Received 1978.


The following were developed by Jeff Pedersen, USDA, ARS, University of Nebraska, East Campus, 344 Keim Hall, Room 329, Lincoln, Nebraska 68583-0937, United States; J.J. Toy, USDA-ARS, Univ. of Nebraska-Lincoln, Dept. of Agronomy, Lincoln, Nebraska 68583-0937, United States. Received 07/30/1996.

line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595223. *Sorghum bicolor* (L.) Moench
Genetic. A3N150. GS-4. Pedigree - Brawley*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595224. *Sorghum bicolor* (L.) Moench
Genetic. A3N151. GS-5. Pedigree - Dale*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595225. *Sorghum bicolor* (L.) Moench
Genetic. A3N152. GS-6. Pedigree - Kansas Collier*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595226. *Sorghum bicolor* (L.) Moench
Genetic. A3N153. GS-7. Pedigree - Wray*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595227. *Sorghum bicolor* (L.) Moench
Genetic. A3N154. GS-8. Pedigree - Sugar Drip*BC4/A3T398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595228. *Sorghum bicolor* (L.) Moench

PI 595229. *Sorghum bicolor* (L.) Moench
Genetic. A3N156. GS-10. Pedigree - N98(short selection)*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, Ne. Sterility in other environments has not been confirmed.

PI 595230. *Sorghum bicolor* (L.) Moench
Genetic. A3N157. GS-11. Pedigree - N98(tall selection)*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595231. *Sorghum bicolor* (L.) Moench
male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595232. Sorghum bicolor (L.) Moench
Genetic. A3N159. GS-13. Pedigree - N100*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595233. Sorghum bicolor (L.) Moench
Genetic. A3N160. GS-14. Pedigree - EL-ES*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595234. Sorghum bicolor (L.) Moench
Genetic. A3N161. GS-15. Pedigree - Ellis*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595235. Sorghum bicolor (L.) Moench
Genetic. A3N162. GS-16. Pedigree - Fremont*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595236. Sorghum bicolor (L.) Moench
Genetic. A3N163. GS-17. Pedigree - Atlas*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595237. Sorghum bicolor (L.) Moench
Genetic. A3N164. GS-18. Pedigree - Early Hegari-Sart*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595238. Sorghum bicolor (L.) Moench
Genetic. A3N165. GS-19. Pedigree - Red X*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595239. Sorghum bicolor (L.) Moench
Genetic. A3N166. GS-20. Pedigree - Blue Ribbon*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595240. Sorghum bicolor (L.) Moench
Genetic. A3N167. GS-21. Pedigree - Colman*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.
environments has not been confirmed.

**PI 595241. Sorghum bicolor** (L.) Moench
Genetic. A3N168. GS-22. Pedigree - Hastings*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595242. Sorghum bicolor** (L.) Moench
Genetic. A3N169. GS-23. Pedigree - E-35-1*BC4/A3Tx430. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595243. Sorghum bicolor** (L.) Moench
Genetic. A3N170. GS-24. Pedigree - IS2729*BC5/A3Tx430. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595244. Sorghum bicolor** (L.) Moench
Genetic. A3N171. GS-25. Pedigree - KS5*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595245. Sorghum bicolor** (L.) Moench

**PI 595246. Sorghum bicolor** (L.) Moench
Genetic. A3N173. GS-27. Pedigree - N109*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595247. Sorghum bicolor** (L.) Moench

**PI 595248. Sorghum bicolor** (L.) Moench
Genetic. A3N175. GS-29. Pedigree - N111*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595249. Sorghum bicolor** (L.) Moench
Genetic. A3N176. GS-30. Pedigree - Early Sumac*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.
PI 595250. Sorghum bicolor (L.) Moench
Genetic. A3N177. GS-31. Pedigree - Spanish Broomcorn*BC4/A3Tx398. Forage sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

The following were developed by Jeff Pedersen, USDA, ARS, University of Nebraska, East Campus, 344 Keim Hall, Room 329, Lincoln, Nebraska 68583-0937, United States; B.E. Johnson, University of Nebraska, Dept. of Agronomy, Lincoln, Nebraska 68583-0915, United States; J.J. Toy, USDA-ARS, Univ. of Nebraska-Lincoln, Dept. of Agronomy, Lincoln, Nebraska 68583-0937, United States. Received 07/30/1996.

PI 595251. Sorghum bicolor (L.) Moench
Genetic. N221ms3ms3. GS-32. Pedigree - BKS57*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595252. Sorghum bicolor (L.) Moench
Genetic. N222ms3ms3. GS-33. Pedigree - BKS82*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595253. Sorghum bicolor (L.) Moench
Genetic. N223ms3ms3. GS-34. Pedigree - BN32*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595254. Sorghum bicolor (L.) Moench
Genetic. N224ms3ms3. GS-35. Pedigree - BTx3042*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595255. Sorghum bicolor (L.) Moench
Genetic. N225ms3ms3. GS-36. Pedigree - BTx623*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595256. Sorghum bicolor (L.) Moench
Genetic. N226ms3ms3. GS-37. Pedigree - BTx630*Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595257. Sorghum bicolor (L.) Moench
Genetic. N227ms3ms3. GS-38. Pedigree - BWheatland*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE
PI 595258. *Sorghum bicolor* (L.) Moench
Genetic. N228ms3ms3. GS-39. Pedigree - SC110-9*Tx398ms3ms3. SC110-9 is a sister line to TAM428. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595259. *Sorghum bicolor* (L.) Moench
Genetic. N229ms3ms3. GS-40. Pedigree - RTx2737*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595260. *Sorghum bicolor* (L.) Moench
Genetic. N230ms3ms3. GS-41. Pedigree - BTx631*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595261. *Sorghum bicolor* (L.) Moench
Genetic. N231ms3ms3. GS-42. Pedigree - BOK11*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595262. *Sorghum bicolor* (L.) Moench
Genetic. N232ms3ms3. GS-43. Pedigree - BMA4*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595263. *Sorghum bicolor* (L.) Moench
Genetic. N233ms3ms3. GS-44. Pedigree - BSD106*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595264. *Sorghum bicolor* (L.) Moench
Genetic. N234ms3ms3. GS-45. Pedigree - BPTN*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595265. *Sorghum bicolor* (L.) Moench
Genetic. N235ms3ms3. GS-46. Pedigree - BN122*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595266. *Sorghum bicolor* (L.) Moench
Genetic. N236ms3ms3. GS-47. Pedigree - RTx435*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE
and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595267. Sorghum bicolor** (L.) Moench  
Genetic. N237ms3ms3. GS-48. Pedigree - RTx2741*BC4/Tx430ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595268. Sorghum bicolor** (L.) Moench  
Genetic. N238ms3ms3. GS-49. Pedigree - IS7013*BC4/Tx430ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595269. Sorghum bicolor** (L.) Moench  
Genetic. N239ms3ms3. GS-50. Pedigree - BKS24*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595270. Sorghum bicolor** (L.) Moench  
Genetic. N240ms3ms3. GS-51. Pedigree - BKS56*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595271. Sorghum bicolor** (L.) Moench  
Genetic. N241ms3ms3. GS-52. Pedigree - BTx2752*BC4/Tx398ms3ms3. Elite inbred line with ms3. Closely resembles the recurrent parent and plants homozygous recessive for ms3 are completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595272. Sorghum bicolor** (L.) Moench  
Genetic. A2N178. GS-53. Pedigree - BN122*BC6/A2Tx398. Elite sorghum line in A2 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595273. Sorghum bicolor** (L.) Moench  
Genetic. A3N179. GS-54. Pedigree - BN122*BC6/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595274. Sorghum bicolor** (L.) Moench  
Genetic. A4N180. GS-55. Pedigree - BN122*BC6/A4Tx398. Elite sorghum line in A4 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595275. Sorghum bicolor** (L.) Moench  
Genetic. A2N181. GS-56. Pedigree - BKS57*BC7/A2Tx398. Elite sorghum line in A2 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.
PI 595276. *Sorghum bicolor* (L.) Moench
Genetic. A3N182. GS-57. Pedigree - BKS57*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595277. *Sorghum bicolor* (L.) Moench
Genetic. A4N183. GS-58. Pedigree - BKS57*BC7/A4Tx398. Elite sorghum line in A4 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595278. *Sorghum bicolor* (L.) Moench
Genetic. A2N184. GS-59. Pedigree - BTx3042*BC7/A2Tx398. Elite sorghum line in A2 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595279. *Sorghum bicolor* (L.) Moench
Genetic. A3N185. GS-60. Pedigree - BTx3042*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595280. *Sorghum bicolor* (L.) Moench
Genetic. A4N186. GS-61. Pedigree - BTx3042*BC7/A4Tx398. Elite sorghum line in A4 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595281. *Sorghum bicolor* (L.) Moench

PI 595282. *Sorghum bicolor* (L.) Moench
Genetic. A3N188. GS-63. Pedigree - BWheatland*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595283. *Sorghum bicolor* (L.) Moench
Genetic. A4N189. GS-64. Pedigree - BWheatland*BC7/A4Tx398. Elite sorghum line in A4 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595284. *Sorghum bicolor* (L.) Moench
Genetic. A2N190. GS-65. Pedigree - BN38*BC7/A2Tx398. Elite sorghum line in A2 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.
PI 595285. Sorghum bicolor (L.) Moench
Genetic. A3N191. GS-66. Pedigree - BN38*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595286. Sorghum bicolor (L.) Moench
Genetic. A2N192. GS-67. Pedigree - BTx623*BC7/A2Tx398. Elite sorghum line in A2 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595287. Sorghum bicolor (L.) Moench
Genetic. A3N193. GS-68. Pedigree - BTx623*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595288. Sorghum bicolor (L.) Moench
Genetic. A3N194. GS-69. Pedigree - BN37*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595289. Sorghum bicolor (L.) Moench
Genetic. A3N195. GS-70. Pedigree - BN101*BC6/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595290. Sorghum bicolor (L.) Moench
Genetic. A3N196. GS-71. Pedigree - BN102*BC6/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595291. Sorghum bicolor (L.) Moench
Genetic. A3N197. GS-72. Pedigree - BN103*BC6/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595292. Sorghum bicolor (L.) Moench
Genetic. A3N198. GS-73. Pedigree - BRedlan*BC7/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595293. Sorghum bicolor (L.) Moench
Genetic. A3N199. GS-74. Pedigree - BTx631*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595294. Sorghum bicolor (L.) Moench
PI 595295. *Sorghum bicolor* (L.) Moench
Genetic. A3N201. GS-76. Pedigree - R(1)N55*BC5/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595296. *Sorghum bicolor* (L.) Moench
Genetic. A3N202. GS-77. Pedigree - R(1)N58*BC5/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595297. *Sorghum bicolor* (L.) Moench
Genetic. A3N203. GS-78. Pedigree - R(1)N64*BC5/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595298. *Sorghum bicolor* (L.) Moench
Genetic. A3N204. GS-79. Pedigree - R(1)N68*BC5/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595299. *Sorghum bicolor* (L.) Moench
Genetic. A3N205. GS-80. Pedigree - R(1)N70*BC5/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595300. *Sorghum bicolor* (L.) Moench

PI 595301. *Sorghum bicolor* (L.) Moench
Genetic. A3N207. GS-82. Pedigree - R(1)N72*BC5/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595302. *Sorghum bicolor* (L.) Moench
Genetic. A3N208. GS-83. Pedigree - R(1)N97*BC6/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595303. *Sorghum bicolor* (L.) Moench
line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595304. Sorghum bicolor (L.) Moench
Genetic. A3N210. GS-85. Pedigree - R(1)OKY10*BC7/A3Tx398. Elite Sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595305. Sorghum bicolor (L.) Moench
Genetic. A3N211. GS-86. Pedigree - R(1)OKY11*BC6/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595306. Sorghum bicolor (L.) Moench
Genetic. A3N212. GS-87. Pedigree - R(1)SC110-9*BC7/A2Tx398. Elite sorghum line in A2 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595307. Sorghum bicolor (L.) Moench
Genetic. A3N213. GS-88. Pedigree - R(1)SC110-9*BC7/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595308. Sorghum bicolor (L.) Moench
Genetic. A3N214. GS-89. Pedigree - R(1)Tx415*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595309. Sorghum bicolor (L.) Moench
Genetic. A3N215. GS-90. Pedigree - R(1)Tx432*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595310. Sorghum bicolor (L.) Moench
Genetic. A2N216. GS-91. Pedigree - R(1)Tx435*BC8/A2Tx398. Elite sorghum line in A2 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595311. Sorghum bicolor (L.) Moench
Genetic. A3N217. GS-92. Pedigree - R(1)Tx435*BC8/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

PI 595312. Sorghum bicolor (L.) Moench
Genetic. A3N218. GS-93. Pedigree - R(1)Tx2536*BC7/A3Tx430. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and
completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595313. Sorghum bicolor** (L.) Moench
Genetic. A3N219. GS-94. Pedigree - R(1)Tx2737*BC8/A3Tx398. Elite sorghum line in A3 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

**PI 595314. Sorghum bicolor** (L.) Moench
Genetic. A2N220. GS-95. Pedigree - R(1)Tx2808*BC4/A2Tx398. Elite sorghum line in A2 cytoplasm. Closely resembles the recurrent parent and completely male-sterile in Lincoln, NE and Mead, NE. Sterility in other environments has not been confirmed.

The following were collected by David Brenner, Iowa State University, Regional Plant Introduction Station, Room G208, Agronomy Building, Ames, Iowa 50011, United States. Received 02/06/1995.

**PI 595315. Chenopodium berlandieri** Moq.
Wild. DB 948; Ames 22284. Collected 08/09/1994 in Iowa, United States. Latitude 41 deg. 58' N. Longitude 93 deg. 54' W. Elevation 260 m. East side of the Des Moines River, at the route E57 bridge. The earlier maturing plants of the population. They are 1-2 M tall and have red stripes on the stems.

**PI 595316. Chenopodium berlandieri** Moq.
Wild. DB 9410; Ames 22285. Collected 09/11/1994 in Iowa, United States. Latitude 41 deg. 58' N. Longitude 93 deg. 54' W. Elevation 260 m. East side of the Des Moines River, at the route E57 Bridge. The later maturing plants of the population. These late plants were more common that the early plants. They are 1-2 M tall and have red stripes on the stems.

The following were collected by Paul Brenner, c/o E.H. Brenner, 3325 R Street, N.W., Washington, District of Columbia 20007, United States. Received 10/14/1995.

**PI 595317. Amaranthus powellii** S. Watson

The following were collected by David Brenner, Iowa State University, Regional Plant Introduction Station, Room G208, Agronomy Building, Ames, Iowa 50011, United States. Received 12/01/1995.

**PI 595318. Amaranthus hybrid**
17. In associated with cocolebur (Xanthium) in periodically inundated areas within the reservoir basin near the level of the over-flow. Pedigree - Amaranthus hybrid involving A. albus and A. californicus. The hybrid determination was by a hand-lense look at the flowers at the time of collection. Stems thin, plants to 30cm tall.

PI 595319. Amaranthus californicus (Moq.) S. Watson
Wild. DB 955; Ames 22716. Collected 12/04/1995 in California, United States. Latitude 37 deg. 11' N. Longitude 122 deg. W. Elevation 197 m. Santa Clara County. North-west side of Lexington Reservoir, east of Rt. 17. In associated with cocolebur (Xanthium) in periodically inundated areas within the reservoir basin near the level of the over-flow. Plants prostrate, stems fleshy, dead at the time of collection.

PI 595320. Amaranthus powellii S. Watson
Wild. DB 956; Ames 22717. Collected 11/04/1995 in California, United States. Latitude 37 deg. 11' N. Longitude 122 deg. W. Elevation 197 m. Santa Clara County. North-west side of Lexington Reservoir, east of Rt. 17. In associated with cocolebur (Xanthium) in periodically inundated areas within the reservoir basin near the level of the over-flow. Utricles circumscissile. Plants erect to 40cm tall.

The following were collected by Doug Johnson, USDA-ARS, Utah State University, Forage & Range Research Unit, Logan, Utah 84322-6300, United States; Melvin D. Rumbaugh, USDA-ARS, Utah State University, Forage & Range Research Lab, Logan, Utah 84322-6300, United States. Received 01/21/1992.

PI 595321. Melilotus albus Medikus
Wild. X91006; Ames 18513; W6 9582. Collected 08/23/1991 in Xinjiang, China. Latitude 41 deg. 49' N. Longitude 85 deg. 30' E. Elevation 870 m. Shanghu Village, 20 km W of Korla, Xinjiang, Peoples Republic of China. Small statured sweetclover, 1.0 m tall, white flowered.

PI 595322. Melilotus albus Medikus
Wild. X910019; Ames 18514; W6 9583. Collected 08/26/1991 in Xinjiang, China. Latitude 39 deg. 23' N. Longitude 75 deg. 51' E. Elevation 1300 m. Growing in margin of irrigated alfalfa field. Zamin Village Shufu County, 18 km W of Kashgar, Xinjiang, Peoples Republic of China. 2.0 m tall, white flowered, coarse stemmed.

PI 595323. Melilotus albus Medikus
Wild. X910023; Ames 18515; W6 9584. Collected 08/26/1991 in Xinjiang, China. Latitude 39 deg. 23' N. Longitude 75 deg. 51' E. Elevation 1300 m. Wukeshake Village, Shufu County, 12 km SW of Kashgar, Xinjiang, Peoples Republic of China. 1.5 m tall, white flowered. Seed shattered.

PI 595324. Melilotus albus Medikus
Wild. X910031; Ames 18516; W6 9585. Collected 08/27/1991 in Xinjiang, China. Latitude 38 deg. 26' N. Longitude 77 deg. 16' E. Elevation 1463 m. Plants on border dyke of irrigated alfalfa field. Mixie Village, Shache County, 4 km N of Shache, Xinjiang, Peoples Republic of China. 1.5 m tall, white flowered.

PI 595325. Melilotus albus Medikus

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PI 595326. Melilotus albus Medikus

PI 595327. Melilotus albus Medikus
Wild. X910064; Ames 18518; W6 9587. Collected 09/02/1991 in Xinjiang, China. Latitude 41 deg. 16' N. Longitude 80 deg. 14' E. Elevation 1080 m. Grassland Station, Wensu County, 12 km N of Asku, Xinjiang, Peoples Republic of China. 1.5 m tall, white flowered. Contamination in field of Medicago sativa.

PI 595328. Melilotus officinalis Lam.
Wild. X910008; Ames 18519; W6 9588. Collected 08/23/1991 in Xinjiang, China. Latitude 41 deg. 49' N. Longitude 85 deg. 30' E. Elevation 870 m. Shanghu Village, 20 km W of Korla, Xinjiang, Peoples Republic of China. 0.5 m tall, yellow flowers. Later in maturity than associated Melilotus alba. Seed immature.

PI 595329. Melilotus officinalis Lam.
Wild. X910020; Ames 18520; W6 9589. Collected 08/26/1991 in Xinjiang, China. Latitude 39 deg. 23' N. Longitude 75 deg. 51' E. Elevation 1300 m. Along field margin. Zamin Village, Shufu County, 18 km W of Kashgar, Xinjiang, Peoples Republic of China. Small plants, 0.5 m tall, yellow flowered, fine stemmed.

PI 595330. Melilotus officinalis Lam.
Wild. X910044; Ames 18522; W6 9591. Collected 08/29/1991 in Xinjiang, China. Latitude 37 deg. 7' N. Longitude 79 deg. 45' E. Elevation 1585 m. Bageqi Town, Kasipi Village, 15 km W of Hotien County, Xinjiang, Peoples Republic of China.

PI 595331. Melilotus officinalis Lam.
Wild. X910057; Ames 18523; W6 9592. Collected 08/30/1991 in Xinjiang, China. Latitude 36 deg. 17' N. Longitude 79 deg. 56' E. Elevation 2700 m. South of Pixa Village, Hotien Prefecture, Xinjiang, Peoples Republic of China. 2.5 m tall, yellow flowered. Contaminant in Medicago sativa field. Seed immature.

PI 595332. Melilotus officinalis Lam.

PI 595333. Melilotus officinalis Lam.
Wild. X910075; Ames 18525; W6 9594. Collected 09/04/1991 in Xinjiang, China. Latitude 43 deg. 18' N. Longitude 86 deg. 40' E. Elevation 1189 m.
m. No. 24 farm, 40 km NE of Yanqi County between Korla and Urumqi, Xinjiang, Peoples Republic of China. 0.5 to 1.0 m tall, yellow flowers.

PI 595334. Melilotus dentatus (Waldst. & Kit.) Pers.

PI 595335. Melilotus officinalis Lam.

The following were developed by DeKalb Genetics Corporation, United States. Received 08/06/1996.

PI 595336. Zea mays L. ssp. mays
Cultivar. "01CSI2". PVP 9600289.

PI 595337. Zea mays L. ssp. mays
Cultivar. "01DFA3". PVP 9600290.

PI 595338. Zea mays L. ssp. mays
Cultivar. "01DIB2". PVP 9600291.

PI 595339. Zea mays L. ssp. mays
Cultivar. "01IBH10". PVP 9600292.

PI 595340. Zea mays L. ssp. mays
Cultivar. "01IZB2". PVP 9600293.

PI 595341. Zea mays L. ssp. mays
Cultivar. "2FADBSR". PVP 9600294.

PI 595342. Zea mays L. ssp. mays
Cultivar. "F298W". PVP 9600295.

PI 595343. Zea mays L. ssp. mays
Cultivar. "SNBM". PVP 9600296.

PI 595344. Zea mays L. ssp. mays
Cultivar. "FBPL". PVP 9600297.

PI 595345. Zea mays L. ssp. mays
Cultivar. "WKBC5". PVP 9600298.

PI 595346. Zea mays L. ssp. mays
Cultivar. "WQCD10". PVP 9600299.
The following were developed by Seed Research of Oregon, Inc., Oregon, United States. Received 08/06/1996.

PI 595347. Lolium perenne L.
  Cultivar. "SR 4010". PVP 9600300.

PI 595348. Festuca arundinacea Schreber
  Cultivar. "SR 8210". PVP 9600301.

The following were developed by Olsen-Fennell Seeds, Inc., United States. Received 08/06/1996.

PI 595349. Lolium perenne L.
  Cultivar. "IMAGINE". PVP 9600306.

The following were developed by DeKalb Genetics Corporation, United States. Received 08/06/1996.

PI 595350. Glycine max (L.) Merr.
  Cultivar. "CX025". PVP 9600307.

PI 595351. Glycine max (L.) Merr.
  Cultivar. "CX197". PVP 9600308.

PI 595352. Glycine max (L.) Merr.
  Cultivar. "CX229". PVP 9600309.

PI 595353. Glycine max (L.) Merr.
  Cultivar. "CX297". PVP 9600310.

PI 595354. Glycine max (L.) Merr.
  Cultivar. "CX375". PVP 9600311.

PI 595355. Glycine max (L.) Merr.
  Cultivar. "CX280c". PVP 9600312.

PI 595356. Glycine max (L.) Merr.
  Cultivar. "CX450c". PVP 9600313.

PI 595357. Glycine max (L.) Merr.
  Cultivar. "CX494". PVP 9600314.

PI 595358. Glycine max (L.) Merr.
  Cultivar. "CX510c". PVP 9600315.

The following were developed by Pickseed West, Inc., United States. Received 08/06/1996.

PI 595359. Festuca arundinacea Schreber
  Cultivar. "CROSSFIRE II". PVP 9600316.
The following were developed by Western Rice Research, United States. Received 08/06/1996.

PI 595360. Oryza sativa L.
   Cultivar. "MILLROSE". PVP 9600317.

PI 595361. Oryza sativa L.
   Cultivar. "SURPASS". PVP 9600318.

The following were developed by University of Missouri, Missouri, United States. Received 08/06/1996.

PI 595362. Glycine max (L.) Merr.
   Cultivar. "MAGELLAN". PVP 9600319.

The following were developed by David A. Sleper, University of Missouri, Department of Agronomy, 201 Waters Hall, Columbia, Missouri 65211, United States; P.A. Owen, Missouri Agr. Exp. Sta., University of Missouri, Columbia, Missouri 65211, United States; Kerry M. Clark, University of Missouri-Columbia, Research Support Service, 3600 E. New Haven Road, Columbia, Missouri 65211, United States; Mike E. Schmidt, Southern Illinois University, Department of Plant and Soil Sciences, MC 4415, Carbondale, Illinois 62901-4415, United States. Received 08/06/1996.

PI 595363. Glycine max (L.) Merr.
   Cultivar. Pureline. "Mustang". CV-354; PVP 9600320. Pedigree - Fayette x Pyramid. Resistance to soybean cyst nematode (Heterodera glycines) race 3 and moderate resistance to races 1 and 14. Relative maturity 4.3. Pubescence grey, flower white, pods tan at maturity, seeds yellow with buff hila. Low lodging (1.3), low seed shattering (1), and average height 38 inches.

The following were developed by Hollar Seeds, Inc., United States. Received 08/06/1996.

PI 595364. Cucurbita pepo L.
   Cultivar. "HSR 1878". PVP 9600321.

The following were developed by Wayne W. Hanna, USDA, ARS, Coastal Plains Experiment Station, P.O. Box 748, Tifton, Georgia 31793, United States; R.N. Carrow, University of Georgia, Dept. of Crop and Soil Sciences, Georgia Agric. Res. Stn., Griffin, Georgia 30223-1797, United States; A.J. Powell, University of Kentucky, Dept. of Agronomy, Lexington, Kentucky 40546, United States. Received 07/15/1996.

PI 595365. Cynodon hybrid
   Cultivar. "TIFT 94"; MI40. CV-29. Pedigree - One of 66 finer-textured mutants induced with 8000 rads of Cobalt 60 gamma radiation in Midiron in February of 1983. Performed well or superior in three experiments at Tifton, GA and one experiment in each Griffin, GA, Oklahoma, Kentucky, and Florida. Superior quality to Midiron in tests mowed 3x per week at
12.5 or 25 mm. Quality equal to Tifway 2, similar to Tifgreen in two
tests mowed at 6 mm and one test mowed at 25 mm. Only entry showing no
mole cricket damage in two tests at Tifton, GA in 1993.

The following were donated by Shawn Kaeppler, University of Wisconsin,
College of Agriculture, Agronomy Department, Madison, Wisconsin 53706, United
States. Received 07/24/1996.

PI 595366. Zea mays L. ssp. mays
Developed by self pollination directly from NSS1(6). NSS1(6) is first
replication of Nebraska Stiff Stalk Synthetic which had undergone six
cycles of per se selection when selfing was initiated. Medium-short S5
line with prolific tendency. Ears medium to large, deep, soft kernels,
16 to 18 kernel rows. Requires approximately 1460 heat units for
flowering. Selection based on yield potential in hybrid combination and
general plant health. Anthers green, silks colorless, cob pink.

PI 595367. Zea mays L. ssp. mays
Developed by self pollination directly from NB(S)RF1(5). Population
represents fifth cycle of reciprocal full-sib selection in Nebraska B
Synthetic with Nebraska Stiff Stalk Synthetic as opposing tester
population. Medium-tall, S6 line with some prolific tendency. Medium
height, requires approximately 1500 heat units for pollen shed. Kernels
light yellow, cobs light pink, 14 kernel rows. Anthers green, silks
colorless. Selection based on yield potential in hybrid combination,
standability, and general plant health.

PI 595368. Zea mays L. ssp. mays
Breeding. Population. NBS(8); Nebraska B Synthetic. Developed in United
States. Pedigree - Improved version of Nebraska B Synthetic synthesized
by Dr. J. H. Lonnquist in 1946. Corn-belt dent population released on
its potential for producing full season maize inbred lines with good
yield and standability. Populations result of eight cycles of recurrent
selection in a replicated recurrent selection program initiated by Dr.
W. A. Compton in 1969. Composite of three replicates. Improved by S1 per
se selection based on index of yield, upright plants, and plants without
dropped ears. Intermediate in height, prolific, and ears with yellow
grain on primarily red cobs.

PI 595369. Zea mays L. ssp. mays
Breeding. Population. NB(S)RF(8); Nebraska B Synthetic. Developed in
United States. Pedigree - Improved version of Nebraska B Synthetic
synthesized by Dr. J. H. Lonnquist in 1946. Corn-belt dent population
released based on potential for producing full season maize inbred lines
with good yield and standability. Population is result of eight cycles
of recurrent selection in replicated recurrent selection program
initiated by Dr. W. A. Compton in 1969. Composite of three replicates.
Improved by reciprocal full-sib selection based on index of yield,
upright plants, and plants without dropped ears. Opposing population in
recurrent selection program was NS(B)RF. Intermediate in height,
prolific, and ears with yellow grain on primarily red cobs.
PI 595370. Zea mays L. ssp. mays
Breeding. Population. NS(B)RF(8); Nebraska Stiff Stalk Synthetic. Developed in United States. Pedigree - Improved version of Iowa Stiff Stalk Synthetic originally synthesized by G. F. Sprague. Corn-belt dent population released based on potential for producing full season maize inbred lines with good yield and standability. Population is result of eight cycles of recurrent selection in replicated recurrent selection program initiated by Dr. W. A. Compton in 1969. Composite of three replicates. Improved by reciprocal full-sib selection based on index of yield, upright plants, and plants without dropped ears. Opposing population in recurrent selection program was NB(S)RF. Intermediate in height, prolific, and ears with yellow grain on primarily red cobs.

PI 595371. Zea mays L. ssp. mays
Breeding. Population. NSS(8); Nebraska Stiff Stalk Synthetic. Developed in United States. Pedigree - Improved version of Iowa Stiff Stalk Synthetic originally synthesized by G. F. Sprague. Corn-belt dent population released based on potential for producing full season maize inbred lines with good yield and standability. Population is result of eight cycles of recurrent selection in replicated recurrent selection program initiated by Dr. W. A. Compton in 1969. Composite of three replicates. Improved by S1 per se selection based on index of yield, upright plants, and plants without dropped ears. Intermediate in height, prolific, and ears with yellow grain on primarily red cobs.

PI 595372. Zea mays L. ssp. mays
Breeding. Population. ALAQUAT. Developed in United States. Pedigree - Broad based synthetic containing germplasm from "Alaska to the Equator". Population sent to Dr. Compton by Dr. Lonnquist while at CIMMYT. Yield potential relatively good, plants above average stalk quality compared to other exotic materials. Grain vitreous, exceptional quality; possibilities may exist for utilization of material in production of food grade genotypes. Plant and ear heights tall but not extreme. Colored and colorless cobs found in population as well as variety of endosperm and aleurone pigmentation types. Average maturity 115 days. Undergone 18 cycles of mass selection for adaptation. Adaptive traits include flowering date, plant height, and plant health.

PI 595373. Zea mays L. ssp. mays

PI 595374. Zea mays L. ssp. mays
Breeding. Population. KRUG*TABLECILLO. Developed in United States. Pedigree - Synthesized by intermating Krug variety with different
sources of maize from Tablalcillo race of Mexico. Yield low to moderate due to short ear lengths and low kernel row numbers. Plants tall, ears high. Root lodging common due to plant height, although stalk quality good for exotic population. Colored and colorless cobs, yellow kernels common but white and purple kernels present. Average maturity 112 days. Undergone 28 cycles of mass selection for adaptation. Adaptive traits include flowering date, plant height, and plant health.

PI 595375. Zea mays L. ssp. mays
Breeding. Population. EXOTIC COMPOSITE. Developed in United States. Pedigree - Synthesized by intermating 11 populations of cornbelt by exotic germplasm. Populations included CB*Mexican(C2), CB*Caribe(C2), CB*Brazilian(C2), CB*Cuzco(C2), CB*Early Tropical(C2), Gaspe*Columbian(C5), Krug*Tablancillo(C10), Kenya Composite, Bangkok population, Conico, Latente, and CB*Peruvian. CB is abbreviation for Cornbelt Composite which contains five open-pollinated varieties Hayes Golden, Barber Reid, Krug, Lancaster, and Golden Republic. CB constituted less than one-half of original Exot. Yield very good relative to other populations of this type. Many ears have kernels of outstanding quality. Plant height medium tall to tall, ear placement medium to high. Good stalk strength and plant health. Cobs primarily red, kernels yellow although some color variation exists. Inbreeding within has produced several attractive lines of average height and normal flowering. Lines yield well in hybrid combination. Average maturity approximately 114 days. Improved by 13 cycles of modified ear-to-row half-sib family selection. Lines don't fall into any specific heterotic group as expected based on genetic diversity.

PI 595376. Zea mays L. ssp. mays
Breeding. Population. HAYS GOLDEN*44. Developed in United States. Pedigree - Formed by crossing version of Hays Golden, improved by 13 cycles of modified ear-to-row half-sib family selection, to Mo44. Cross to improve standability, with resulting population one-half Mo44 and one-half Hays Golden. Improved by 2 cycles of modified ear-to-row half-sib family selection. Population contains largely Reid or Midland germplasm placing it in Stiff Stalk heterotic group. Mo44 combines well with Stiff Stalk and non-Stiff Stalk genotypes. Average maturity 114 days. Yield good, standability improved by cross to Mo44 relative to immediate Hays Golden progenitor. Plant height tall, ear placement high, but traits not as pronounced as in other Hays Golden populations. Cob red, kernels yellow.

PI 595377. Zea mays L. ssp. mays
Breeding. Population. NEBRASKA ROOTWORM SYNTHETIC. Developed in United States. Pedigree - Developed by intermating 12 inbred lines and 2 Mexican populations with large roots or good root regrowth after damage. Inbreds included N8A, N8B, N28, N38A, N124, A251, A625, B57, B69, Mo22, SD10, CI21E. Two populations were Corn Belt*Zapalote and Zapalote Synl7. Improved by approximately 8 cycles of mass selection for maturity and plant appearance. Further improved by two cycles of reciprocal full-sib selection with Nebraska Drought Synthetic as opposing population. Average maturity 110 to 112 days. Contains largely Reid germplasm, although lines selfed from it perform equally well when crossed to either heterotic pattern. Yield moderate. Ears medium, cobs red, and grain yellow. Plant and ear heights medium to medium tall. Stalk
strength variable due to susceptibility of some plants to common stalk rots. General health good. Most plants dark green. No data on root strength gathered but one line selfed from population is exceptional with respect to this characteristic. Based on genetic material used to form the population, root strength expected to be good.

**PI 595378. Zea mays L. ssp. mays**

Breeding. Population. NEBRASKA DROUGHT SYNTHETIC. Developed in United States. Pedigree - Formed by intermating N7A, N28, and Pioneer hybrids 3709, 3720, 3505, 3575, 3388, and 3184. Germplasm chosen based on reports of stress tolerance. Population random mated for four generations, improved by 2 cycles of reciprocal full-sib selection with Nebraska Rootworm Synthetic. Average maturity 108 to 110 days. Since large proportion was hybrids, lines not expected to conform to one heterotic pattern. Yield good. Plant and ear heights medium. Stalk strength good. Little stalk rot observed and European corn borer damage less severe in this population relative to others grown in similar trials. Plant health very good with good staygreen late in season. No data on drought tolerance. Several lines selfed from this population show excellent root strength.

The following were developed by T.S. Cox, USDA, ARS, Plant Science and Entomology Research, Department of Agronomy, Manhattan, Kansas 66506-5501, United States. Received 07/29/1996.

**PI 595379. Triticum aestivum L., nom. cons.**

Breeding. Pureline. KS95WGR33. Pedigree - KS93U69*2/TA2397. Hard red winter wheat resistant to Septoria leaf blotch (Septoria tritici) and Stagonospora leaf blotch (Stagonospora nodorum). Represents unique source of resistance in hexaploid wheat to Septoria and Stagonospora leaf blotsches. Also carries gene Lr41 for resistance to leaf rust (Puccinia recondita) from TA2460 via KS93U69. In seedling tests, segregated for resistance to cultures of wheat curl mite (Eriophyes tulipae) to which TAM107 is susceptible. Similar to TAM107 in days to heading, plant height, and general phenotype.

The following were developed by Soon Jai Park, Agriculture Canada, Harrow Research Station, Harrow, Ontario N0R 1G0, Canada; J. C. Tu, Agriculture and Agri-food Canada, Greenhouse and Processing Crops Research Centre, Harrow, Ontario N0R160, Canada. Received 07/31/1996.

**PI 595380. Phaseolus vulgaris L.**

Cultivar. Pureline. "AC HENSALL"; HR43-1582. CV-141. Pedigree - OAC Rico/4/W1541-1503 F2/3/W1336-F2//OAC Seaforth/I667. Medium early maturing in southwestern Ontario with improved disease resistance and yield potential. Yielded 2678 kg ha⁻¹, 106.4% of Envoy, 116.9% of Mitchell, 109.5% of Midland, and 105.8% and 101.9% of OAC Cygnus and Central which were about 2d and 3d later in maturity. Matures about 93 d from seeding, adapted in southwestern Ontario, from 42 to 43 N lat., with 2600 or more crop heat units. Weighs 18.4 g 100 sd⁻¹, slightly smaller seed mass than check cultivars (20.16 g) but larger seed than Midland which weighs 16.2 g 100 sd⁻¹. Good appearance, flavour, texture of canned bean in organoleptic test, and cooking and canning quality.
with firm texture. Resistant to BCMV races 1, 15, and NL-8 strain by carrying 'I' and 'bc-3' genes. Resistant to alpha and delta races of bean anthracnose (Colletotrichum lindemuthianum) by carrying 'Are' gene. Hypocotyl green, indeterminate growth habit with short vine. Flowers white, pods light tan at maturity.

The following were developed by J.C. Gutierrez, Instituto Nacional de Investigaciones Agrarias, Junta de Andalucia, Consejeria de Agricultura, Alcala Del Rio, Sevilla, Spain. Received 06/14/1996.

**PI 595381. Gossypium hirsutum L.**
Cultivar. Pureline. "VICTORIA". CV-110. Pedigree - Stroman 254 / Coker 602 BR. Long season cultivar. Plant shape spreading, height 100-130 cm. Leaves smooth, large bolls, and high seed index. Average fiber characteristics (HVI instruments): length 1.16 in, strength 28.6 g/tex, Mic 4.2, uniformity 81.1%, elongation 5.6%, lint 37.9%. Highly tolerant to sweetpotato whitefly (Bemisia tabaci).

**PI 595382. Gossypium hirsutum L.**
Cultivar. "MARIA DEL MAR". CV-111. Pedigree - Stroman 254 / Coker 602 BR. Intermediate maturity. Growth habit cylindrical, height 100-130 cm. Leaves smooth, large bolls, and high seed index (11g). Average fiber characteristics (HVI instrument): length 1.15 in., strength 29.9 g/tex, Mic 4.1, uniformity 81.3%, elongation 5.8%, lint 37.8%. Tolerant to sweetpotato whitefly (Bemisia tabaci).

The following were developed by Garst Seed Company, United States. Received 08/16/1996.

**PI 595383. Zea mays L. ssp. mays**
Cultivar. "ZS01101". PVP 9600268.

The following were donated by Welsh Plant Breeding Station, Genetic Resources Unit, Aberystwyth, Dyfed, Wales, United Kingdom. Received 09/03/1991.

**PI 595384. Dactylis glomerata L.**
Wild. ABY-BC 5486.80; W6 9073. Collected in Italy. Latitude 42 deg. 34' N. Longitude 12 deg. 39' E. Elevation 400 m. Terni.

The following were developed by William D. Branch, University of Georgia, Coastal Plain Experiment Station, Department of Agronomy, Tifton, Georgia 31793-0748, United States. Received 08/30/1996.

**PI 595385. Arachis hypogaea L. var. hypogaea**
Genetic. Pureline. Georgia Non-Nod; GA T-2400. GS-6. Pedigree - [(PI 341879 x PI 109839) x (PI 371965 x F439-16-10-3)], F5. Growth habit spreading runner, medium maturity, and long narrow pods. Testa color pink. Approximate weight 42 g 100 seed -1.

The following were donated by John D. Miller, USDA, ARS, Coastal Plain
PI 595386. Securigera varia (L.) Lassen
Breeding. VIRGINIA SYNTHETIC A; NSL 103801. GP-29. Pedigree - Synthetic tracing to five sources: Chemung, Emerald, Penngift, Maryland Hay, and Maryland Pasture. Forty-seven superior clones were selected in acid soil trials, seed was bulked from all clones. Selected for tolerance of acid soil. Might be useful for revegetating acid mine spoils. Plants variable within this germplasm pool, including erect and prostrate plants with narrow or wide leaves and coarse or fine stems.

The following were developed by Fred V. Grau, Pennsylvania State University, Agricultural Experiment Station, University Park, Pennsylvania, United States. Donated by Pennsylvania State University, Pennsylvania Agr. Exp. Sta., Pennsylvania, United States. Received 1961.

PI 595387. Securigera varia (L.) Lassen

The following were donated by Bernard P. Goplan, Agriculture Canada, Saskatoon Research Station, 107 Science Crescent, Saskatoon, Saskatchewan S7N 0X2, Canada. Received 1982.

PI 595388. Melilotus officinalis Lam.
Cultivar. "NORGOLD"; SL-608; NSL 164709. CV-35. Pedigree - Low coumarin character from M. dentatus through M. albus to M. officinalis. Recurrent backcrosses with the varieties Erector and Yukon were used to get agronomic performance. Released 01/29/1981. A low coumarin cultivar adapted for western Canada.

The following were developed by B. P. Goplen, Research Station, Agriculture Canada, 107 Science Cresc., Saskatoon. Donated by Bernard P. Goplan, Agriculture Canada, Saskatoon Research Station, 107 Science Crescent, Saskatoon, Saskatchewan S7N 0X2, Canada. Received 1983.

PI 595389. Melilotus officinalis Lam.

The following were donated by Illinois Crop Improvement Assoc., Illinois, United States. Received 1962.

PI 595390. Melilotus albus Medikus
Cultivar. "GRUNDY COUNTY"; NSL 20097; GRUNDY. Pedigree - Developed in
Grundy County, Illinois. Procured from a local dealer. Good for seed production because the seeds ripen all at once. Seed maturity 10 to 14 days before wild types, not as tall as the wild types. Erect with a single upright stem, seldom more than 4 feet tall. In leafiness the plants compare favorably with wild type plants. Because the stems are thin, the hay is not coarse.

The following were developed by J.B. Park, Ohio Agricultural Experiment Station, Department of Agronomy, Columbus, Ohio, United States. Donated by Beltsville USDA, ARS, Beltsville, Maryland, United States. Received 1976.

**PI 595391. Melilotus albus** Medikus
Cultivar. "EVERGREEN"; FC 36062; NSL 30285. CV-3. Pedigree - One-hundred-ninty-seven roadside and field plants were selected in the years 1924, 1926, and 1928. They were grown in plant-to-row progeny tests. Pollination was partially controlled by removing undesirable rows or plants. Twenty strains were selected in 1928. From all the available material, 11 mass selections of similar growth and maturity were made and then increased. Considerable roguing was done in 1932. Some strains were distributed to farmers in 1933. In the spring of 1935 seven mass sel. High hay yields. First year's growth tall, upright and somewhat coarse. Second year's growth tall, coarse, and 3 to 4 weeks later in maturity than common wild-type plants. The blooming period long. Seed harvesting difficult because seed shatters. High temperatures and drought can result in in low seed yield or seed failures. Well adapted in the corn belt to the eastern edge of the Great Plains.

The following were developed by H. Schoth, USDA-ARS, Plant Industry Station, Horticultural Crops Research Branch, Crops Research Division, Beltsville, Maryland 20705-2350, United States. Donated by Agricultural Research Service -- USDA, Beltsville Agricultural Research Center, Beltsville, Maryland 20705, United States. Received 1978.

**PI 595392. Melilotus albus** Medikus
Cultivar. "WILLAMETTE"; "WILLAMETTE WHITE"; FC 33203; NSL 5478. Pedigree - A strain of the common white type, selected in Oregon for disease resistance. Resistant to Sclerotinia stem rot and crown rot. Selected in western Oregon for use there. Maturity and plant type similar to common white.

The following were donated by Agricultural Research Service -- USDA, Beltsville Agricultural Research Center, Beltsville, Maryland 20705, United States. Received 1961.

**PI 595393. Melilotus officinalis** Lam.
Cultivar. "GOLDTOP"; FC 36256; NSL 5483. CV-4. Pedigree - A combination of two strains A46 and S65 both derived from R10377 which was obtained from the Northern Caucases of Russia in 1936. This breeding project was maintained as a cooperative project between the Departments of Agronomy and Genetics, Wisconsin Agricultural Experiment Station and the Forage and Range Section, A.R.S., U. S. Department of Agriculture. Released 1956. Excellent seedling vigor and later maturing than other varieties
of this species. Two weeks later in coming into flower than the variety Madrid.

PI 595394. Melilotus officinalis Lam.
Cultivar. "MADRID"; "MADRID YELLOW"; FC 36257; NSL 5484. CV-2. Pedigree - Originated as an introduction through the USDA Division of Plant Introduction, from the Madrid Botanical Garden, in 1910. The original seeds were accessioned as PI 27474. Released 1926. Exceptional early seedling vigor. Seed production heavy, and early enough to escape the hazard of summer drought in the Great Plains.

The following were developed by H.D. Hughes, Iowa State University, Farm Crops Subsection, Ames, Iowa 50011, United States. Donated by Agricultural Research Service -- USDA, Beltsville Agricultural Research Center, Beltsville, Maryland 20705, United States. Received 1961.

PI 595395. Melilotus suaveolens Ledeb.
Cultivar. "GOLDEN ANNUAL"; FC 32578; NSL 5486. Pedigree - Obtained from Mongolia, China through the USDA, Division of Forage Crops. Selected for early flowering and for vigor by Dr. S.N. Smith and Prof. H.D. Hughes in Iowa. Decended from a single plant. Released 1939. An annual variety with a growth form similar to the variety Hubam. Annual is dominant to biennial in crosses.

The following were developed by B. P. Goplen, Research Station, Agriculture Canada, 107 Science Cresc., Saskatoon. Donated by Agriculture Canada, Saskatchewan Research Station, Saskatoon, Saskatchewan, Canada. Received 1970.

PI 595396. Melilotus albus Medikus
Cultivar. "POLARA"; SL-577 (BREEDER 79-75000); NSL 77599. CV-41. Pedigree - The low coumarin gene cu was incorporated into the well-adapted cultivar Arctic. Three backcrosses were employed using honeybees and large plant populations. A total of 302 progenies were established in replicated tests, and 20% of the progenies were rogued prior to flowering. Released 1970. A low coumarin cultivar of sweetclover. Will not cause hemorrhaging or "sweetclover disease" in farm livestock. Adapted to Western Canada. Seed and forage yields approximately 10% less than the cultivar Arctic.

The following were donated by D.R. Dewey, USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah 84322, United States; Ren Jiz-Hou, Gansu Grassland Ecological Institute, Utah State University, Lanzhou, Gansu, China. Received 01/27/1991.

PI 595397. Melilotus officinalis Lam.
Uncertain. D-2767; Yellow-flowered one-seeded sweet-scented; Ames 18509.

The following were donated by L.T. Colon, CPRO-DLO, Droevendaalsesteeg 1, Wageningen, Netherlands. Received 11/09/1995.
PI 595398. Solanum microdontum Bitter
Breeding. MCD 127; Q 35905.

PI 595399. Solanum microdontum Bitter
Breeding. MCD 176; Q 35906.

PI 595400. Solanum microdontum Bitter
Breeding. MCD 231; Q 35907.

PI 595401. Solanum microdontum Bitter
Breeding. MCD 234; Q 35908.

The following were donated by Bons Dorozhkin, Siberian Research Inst. of Agriculture, Omsk, Russian Federation. Received 03/15/1991.

PI 595402. Solanum tuberosum L.
Cultivar. "BERLICHING"; Q 28389.

PI 595403. Solanum tuberosum L.
Cultivar. "POLIOT"; Q 28376.

PI 595404. Solanum tuberosum L.
Cultivar. "PREOBSKII"; Q 28378.

PI 595405. Solanum tuberosum L.
Cultivar. "SEDOV"; Q 28379.

PI 595406. Solanum tuberosum L.
Cultivar. "SYR-9"; Q 28380.

The following were donated by Nelson Estrada, PROINPA, Casilla Postal 4285, Cochabamba, Bolivia. Received 03/11/1994.

PI 595407. Solanum sp.
Cultivar. "386056.17"; BE-6048; Q 32913.

PI 595408. Solanum sp.
Cultivar. "389349.1"; BE-6048; Q 32914.

PI 595409. Solanum sp.
Cultivar. "575045"; BE-6048; Q 32916.

PI 595410. Solanum sp.
Cultivar. "720049"; BE-6048; Q 32917.

PI 595411. Solanum sp.
Cultivar. "84-34-2"; BE-6048; Q 32919.

PI 595412. Solanum sp.
Cultivar. "84-75-16"; BE-6048; Q 32920.

PI 595413. Solanum sp.
Cultivar. "86F-302-8"; BE-6048; Q 32922.
PI 595414. Solanum sp.
   Cultivar. "90-245-21"; BE-6048; Q 32924.

PI 595415. Solanum sp.
   Cultivar. "CH'ASKA"; BE-6048; Q 32925.

The following were donated by V. A. Dragavtsev, N. I. Vavilov All-Russian Scientific Research, Institute of Plant Genetic Resources, 44 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation. Received 04/02/1993.

PI 595416. Solanum sp.
   Cultivar. "ISTRINSKY-1ST"; CIS 10; BE-4620; Q 30449.

PI 595417. Solanum sp.
   Cultivar. "LUGOVSKOY-2ND"; CIS 11; BE-4620; Q 30450.

PI 595418. Solanum sp.
   Cultivar. "VOLZHANIN-2ND"; CIS 9; BE-4620; Q 30448.

The following were donated by Kazuyoshi Hosaka, Experimental Farm, Kobe University, 1348 Uzurano, Kasai, Hyogo, Japan. Received 06/07/1994.

PI 595419. Solanum phureja Juz. & Buk.
   Cultivar. "PHU 253"; BE-7106; Q 34943.

The following were donated by Sandra Goodfellow, Scottish Agricultural Science Agency, East Craigs, Edinburgh, United Kingdom. Received 04/26/1995.

PI 595420. Solanum tuberosum L.
   Cultivar. "Aura"; Clone 4; BE-7487; Q 35718.

The following were donated by Harald Hildrun, Gartnerhallens Eliteplantestajon, Sauherad, Akkerhaugen, Norway. Received 10/11/1995.

PI 595421. Solanum tuberosum L.
   Cultivar. "Beate"; B123; B124; BE-7673; Q 35787.

The following were donated by Konrad Schuler, Institute for Plant Genetics, IPK, Genbank-Aussenstelle Nord, 0-2551, Gross Lusewitz, Germany. Received 04/25/1994.

PI 595422. Solanum tuberosum L.
   Cultivar. "FABRICIA"; 1533; BE-7040; Q 34843.

PI 595423. Solanum tuberosum L.
   Cultivar. "LERCHE"; 15202; BE-7040; Q 34842; CERCILE.
The following were donated by Ralph Marx, Lapland, Sweden. Received 11/09/1983.

**PI 595424. Solanum tuberosum L.**
Cultivar. "MANDEL POTATO"; C 12702; Q 24008.

The following were donated by M.F.W. Jansen Klomp, RZ Research BV, Breeding Station ROPTA-ZPC, P.O. Box 2, Metslawier, Netherlands. Received 11/21/1995.

**PI 595425. Solanum tuberosum L.**
Cultivar. "Marijke"; AL 180 MS 301; BE-7708; Q 35880.

The following were donated by Konrad Schuler, Institute for Plant Genetics, IPK, Genbank-Aussenstelle Nord, 0-2551, Gross Lusewitz, Germany. Received 04/25/1994.

**PI 595426. Solanum tuberosum L.**
Cultivar. "MARYKE"; BE-7040; Q 34839.

The following were collected by R. Ross, USDA, ARS, Inter-Regional Potato Intro. Station, Peninsula Experiment Station, Sturgeon Bay, Wisconsin 52435, United States. Received 12/08/1983.

**PI 595427. Solanum tuberosum L.**

The following were donated by Hubert G. Zandstra, International Potato Center, Apartado 5969, Lima, Lima, Peru. Received 12/12/1985.

**PI 595428. Solanum sp.**
Cultivar. "PAPA 1"; Q 25881.

The following were donated by John Meyer, P.O. Box 146, Kellnersville, Wisconsin 54215, United States. Received 02/09/1993.

**PI 595429. Solanum tuberosum L.**
Cultivar. "Red Potato"; BE-4474; Q 29670. Red-orange color may be caused by yellow flesh showing through the thin red skin of the tuber.

The following were donated by V. A. Dragavtsev, N. I. Vavilov All-Russian Scientific Research, Institute of Plant Genetic Resources, 44 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation. Received 04/02/1993.

**PI 595430. Solanum sp.**
Cultivar. "RESURS-2ND"; CIS 7; BE-4620; Q 30446.

The following were donated by Hilu Omer, Sorghum & Millet Research, Agric.
PI 595431. Sorghum bicolor (L.) Moench
Cultivated. IS 2314; Q2-2-90; SU 70; SHEMSEN WH.

The following were donated by Solana GmbH, Kielortalle 9, Hamburg, Germany. Received 12/18/1995.

PI 595432. Solanum tuberosum L.
Cultivar. "Ilona"; 204 24.11; Q 35972.

PI 595433. Avena sativa L.
Cultivar. Pureline. "BATES 89"; UC 89; MO 0-6072; NSGC 6133. Pedigree - Pettis/Florida 500. Released 1996. Adapted to irrigated and rainfed production in the Central Valley of California and similar regions. May differ slightly in maturity and other characteristics based on a side-by-side comparison with Bates. During the time of evaluation and year-to-year increase in California, Bates 89 may have diverged from Bates.

The following were donated by Solana GmbH, Kielortalle 9, Hamburg, Germany. Received 12/18/1995.

PI 595434. Solanum tuberosum L.
Cultivar. "Rosara"; 212 24.11; Q 35974.

PI 595435. Solanum tuberosum L.
Cultivar. "Satina"; 310 24.11; Q 35975. PVP 9600092.

The following were donated by Puerto Rico Agricultural Experiment Station, University of Puerto Rico, Mayaguez, Puerto Rico. Received 1961.

PI 595436. Cucurbita moschata (Duchesne) Poiret
Cultivar. NSL 6677; FORTUNA.

The following were donated by Gino Aguirre, PROINPA, Programa de Investigacion de la Papa, Casilla 405, Cochabamba, Bolivia. Received 07/27/1993.

PI 595437. Solanum x ajanhuiri Juz. & Buk.
Cultivar. "AJAHUIRI"; BOT 3180; BE-4832; Q 30929.
PI 595438. Solanum x juzepczukii Buk.
   Cultivar. "AZUL LUK'I"; BOT 2184; BE-4832; Q 30936.

PI 595439. Solanum stenotomum ssp. goniocalyx (Juz. & Buk.) Hawkes
   Cultivar. "CH'ASKA ZAPALLO"; BOT 2791; BE-4832; Q 30920.

PI 595440. Solanum x juzepczukii Buk.
   Cultivar. "LARAN KAISALLA"; BOT 2207; BE-4832; Q 30937.

PI 595441. Solanum x juzepczukii Buk.
   Cultivar. "LIK'I"; BOT 2861; BE-4832; Q 30939.

PI 595442. Solanum x ajanhuiri Juz. & Buk.
   Cultivar. "LUNKU AJAHUIRI"; BOT 3164; BE-4832; Q 30928.

PI 595443. Solanum stenotomum Juz. & Buk.
   Cultivar. "PEPINO"; BOT 2775; BE-4832; Q 30922.

PI 595444. Solanum stenotomum Juz. & Buk.
   Cultivar. "QOYLLU"; BOT 2694; BE-4832; Q 30921.

PI 595445. Solanum x juzepczukii Buk.
   Cultivar. "SISU LARGO"; BOT 3140; BE-4832; Q 30940.

PI 595446. Solanum stenotomum Juz. & Buk.
   Cultivar. "WAWA CHARA PEPINO"; BOT 2942; BE-4832; Q 30925.

PI 595447. Solanum x juzepczukii Buk.
   Cultivar. "WILA LUK'I"; BOT 1705; BE-4832; Q 30935.

The following were donated by John Bamberg, USDA, ARS, Potato Introduction
Station, Peninsula Experiment Station, Sturgeon Bay, Wisconsin 54235, United
States. Received 03/16/1995.

PI 595448. Solanum neovalenzuelae L. E. Lopez
   Wild. CCC 5247; Q 29416; Q 35720. Collected in Santander, Colombia.
   Elevation 3650 m. Municipality of Bucaramanga. On the road to Berlin,
   10 km along the road to Vetas, 200 m below the road. In a wet forest.
   Received as Solanum ineovalenzuelae.

The following were collected by Andres Contreras, Universidad Austral de
Chile, Inst. Produccion y Sanidad Vegetal, Casilla 567, Valdivia, Chile.
Received 12/19/1991.

PI 595449. Solanum tuberosum L.
   Wild. CON 888; BE-3768; Q 28785. Collected 1989 in Los Lagos, Chile.
   Elevation 0 m. Chiloé. Recta chacao, 18 km Ancud.

PI 595450. Solanum tuberosum L.
   Wild. CON 892; BE-3768; Q 28788. Collected 1989 in Los Lagos, Chile.
   Elevation 0 m. Chiloé. Recta chacao, 18 km Ancud.
PI 595451. Solanum tuberosum L.
Wild. CON 893; BE-3768; Q 28789. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. Isla Caucahue, Morros Lobos.

PI 595452. Solanum tuberosum L.
Wild. CON 894; BE-3768; Q 28790. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. Isla Caucahue, Morros Lobos.

PI 595453. Solanum tuberosum L.
Wild. CON 898; BE-3768; Q 28791. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. Isla Caucahue, Morros Lobos.

PI 595454. Solanum tuberosum L.
Wild. CON 900; BE-3768; Q 28793. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. San Antonio de Chadmo.

PI 595455. Solanum tuberosum L.
Wild. CON 901; BE-3768; Q 28796. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. San Antonio de Chadmo.

PI 595456. Solanum tuberosum L.
Wild. CON 903; BE-3768; Q 28794. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. San Antonio de Chadmo.

PI 595457. Solanum tuberosum L.
Wild. CON 923; BE-3768; Q 28801. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. Caulin Bajo, Ancud.

PI 595458. Solanum tuberosum L.
Wild. CON 925; BE-3768; Q 28802. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. Isla Metalqui.

PI 595459. Solanum tuberosum L.
Wild. CON 928; BE-3768; Q 28803. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. Isla Metalqui.

PI 595460. Solanum tuberosum L.
Wild. CON 929; BE-3768; Q 28804. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. Ancud.

PI 595461. Solanum tuberosum L.
Wild. CON 931; BE-3768; Q 28805. Collected 1989 in Los Lagos, Chile. Elevation 0 m. Chiloe. Ancud.

The following were collected by Luis E. Lopez, Carrera 15 # 14-57, Edificio Lucerne Ap. 303, Armenia Diundio, Colombia. Received 02/15/1995.

PI 595462. Solanum phureja Juz. & Buk.
Wild. LOP 5001; BE-7405; Q 35584. Collected in Quindio, Colombia. Elevation 1850 m. Municipality of Pijao. Vereda La Quiebra, the farms of Luis Angel Gomez and Tomas Lopez.

The following were donated by Aaron Rodriguez-Contreras, Universidad de
Guadalajara, Instituto de Botanica, Las Agujas, Nextipac, Zapopan, Jalisco, Mexico. Received 09/14/1993.

PI 595463. Solanum pinnatisectum Dunal
Wild. ROD 2495; BE-4893; Q 32539. Collected 08/09/1993 in Queretaro, Mexico. Latitude 20 deg. 34' N. Longitude 100 deg. 19' W. Elevation 2000 m. Municipality of Queretaro, road Queretaro-Mexico city, just at the junction to El Rosario; E side of Monin Indian monument. Mesquite-grassland with Opuntia sp Karwinskia sp., Myrilocactus sp. and Prosopis sp. Found also along cornfield.

The following were collected by Aaron Rodriguez, University of Wisconsin, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706-1590, United States. Donated by Aaron Rodriguez-Contreras, Universidad de Guadalajara, Instituto de Botanica, Las Agujas, Nextipac, Zapopan, Jalisco, Mexico. Received 09/14/1993.

PI 595464. Solanum bulbocastanum Dunal ssp. bulbocastanum
Wild. ROD 2509; BE-4893; Q 32540. Collected 08/12/1993 in Oaxaca, Mexico. Latitude 17 deg. 6' N. Longitude 96 deg. 42' W. Elevation 1830 m. Municipality of San Felipe del Agua; foot-hills of San Felipe mountains, 500 m N of the town. Oak forest. Along old road. Plants 1 m tall. Corolla stellate, creamy white. Fruit globose.

PI 595465. Solanum cardiophyllum Lindley ssp. cardiophyllum
Wild. ROD 2529; BE-4893; Q 32544. Collected 08/15/1993 in Puebla, Mexico. Latitude 18 deg. 0' N. Longitude 97 deg. 42' W. Elevation 1930 m. San Antonio del Rio, municipality of San Miguel Ixtlan; on the Huajuanpan de Leon-Tehuacan road. In cornfields, near by a small stream and Taxodium mucronatum and Ipomoea sp. Plants 40 cm tall. Corolla stellate, creamy white.

PI 595466. Solanum cardiophyllum Lindley ssp. cardiophyllum
Wild. ROD 2533; BE-4893; Q 32545. Collected 08/15/1993 in Puebla, Mexico. Elevation 2050 m. Santiago Acatepec, municipality of Caltepec; on the side of the road from Huajuanpan de Leon to Tehuacan. Cornfields. Plants 30 cm tall. Corolla stellate, creamy white. Fruit globose.

PI 595467. Solanum cardiophyllum ssp. lanceolatum (Berthel.) Bitter
Wild. ROD 2538; BE-4893; Q 32547. Collected 08/16/1993 in Puebla, Mexico. Latitude 18 deg. 35' N. Longitude 97 deg. 23' W. Elevation 2110 m. Km 19 from Tehuacan on the road to Orizaba, just at the intersection to Cd. Serdan. In cornfield, growing under Mimosa sp.

PI 595468. Solanum cardiophyllum Lindley ssp. cardiophyllum
Wild. ROD 2541; BE-4893; Q 32548. Collected 08/16/1993 in Puebla, Mexico. Latitude 18 deg. 40' N. Longitude 97 deg. 22' W. Elevation 2150 m. Canada de Rojas; road from Tehuacan to Orizaba. In cornfields. Plants 30 cm tall. Corolla stellate, creamy white.

PI 595469. Solanum tuberosum L.
Wild. ROD 2543; BE-4893; Q 32549. Collected 08/16/1993 in Puebla, Mexico. Latitude 18 deg. 40' N. Longitude 97 deg. 22' W. Elevation 2150 m. Canada de Rojas; road from Tehuacan to Orizaba. On the side of the
PI 595470. Solanum cardiophyllum Lindley ssp. cardiophyllum
Wild. ROD 2544; BE-4893; Q 32550. Collected 08/17/1993 in Puebla, Mexico. Latitude 18 deg. 32' N. Longitude 97 deg. 24' W. Elevation 1820 m. Road from Tehuacan to Orizaba, junction to San Vecente. Along cornfield, slope with rocky soil and Agave sp., Cnidoscolus sp. and Opuntia sp. Plants 40 cm tall. Fruits globose.

PI 595471. Solanum bulbocastanum Dunal ssp. bulbocastanum
Wild. ROD 2546; BE-4893; Q 32551. Collected 08/19/1993 in Mexico, Mexico. Elevation 2400 m. Municipality of Texcoco; Tetzcuitzingo mountain right next to San Nicolas Tlamaca. Disturbed oak forest. Plants 30 cm tall. Corolla stellate, creamy white.

PI 595472. Solanum stoloniferum Schldl. & Bouche ssp. stoloniferum
Wild. ROD 2547; BE-4893; Q 32552. Collected 08/19/1993 in Mexico, Mexico. Elevation 2400 m. Municipality of Texcoco; Tetzcuitzingo mountain right next to San Nicolas Tlamaca. Disturbed oak forest. Plants 40 cm tall. Corolla rotate and long acumens, white.

PI 595473. Solanum bulbocastanum ssp. dolichophyllum (Bitter) Hawkes
Wild. ROD 2548; BE-4893; Q 32553. Collected 08/20/1993 in Morelos, Mexico. Latitude 19 deg. 0' N. Longitude 99 deg. 9' W. Elevation 2225 m. La Pera, highway from Mexico city to Cuernavaca. Along the highway and among volcanic rocks with Agave sp. and crasulaceas. Plants 50 cm tall. Corolla stellate, creamy white.

PI 595474. Solanum polyadenium Greenman
Wild. ROD 2552; BE-4893; Q 32554. Collected 08/22/1993 in Hidalgo, Mexico. Latitude 19 deg. 19' N. Longitude 99 deg. 19' W. Elevation 2311 m. Highway from Mexico city to Queretaro city, near the junction towards Tula. Mesquite-grassland with Prosopis leavigata, Acacia sp. and Opuntia sp. Plants 60 cm tall, malodorous. Corolla rotate-stellate, white. Fruit ovoid, light green, striped with broad bands of darker green.

PI 595475. Solanum bulbocastanum Dunal ssp. bulbocastanum
Wild. ROD 2555; BE-4893; Q 32555. Collected 08/22/1993 in Hidalgo, Mexico. Latitude 19 deg. 51' N. Longitude 99 deg. 19' W. Elevation 2311 m. Highway from Mexico city to Queretaro city, near the junction towards Tula. Mesquite-grassland with Prosopis leavigata, Acacia sp. and Opuntia sp. Plants 40 cm tall. Corolla stellate, white.

PI 595476. Solanum cardiophyllum Lindley ssp. cardiophyllum
Wild. ROD 2557; BE-4893; Q 32556. Collected 08/22/1993 in Hidalgo, Mexico. Latitude 19 deg. 51' N. Longitude 99 deg. 19' W. Elevation 2311 m. Highway from Mexico city to Queretaro city, near the junction towards Tula. Mesquite-grassland with Prosopis leavigata, Acacia sp. and Opuntia sp. Plants 30 cm tall.

PI 595477. Solanum cardiophyllum Lindley ssp. cardiophyllum
Wild. ROD 2560; BE-4893; Q 32557. Collected 08/22/1993 in Queretaro, Mexico. Latitude 20 deg. 17' N. Longitude 99 deg. 54' W. Elevation 2174 m. Highway from Mexico city to Queretaro city, just on the Queretaro-Mexico states border. Mesquite-grassland with Opuntia sp. and...
Acacia sp. Corolla stellate, cream colored.

PI 595478. Solanum sambucinum Rydb.

PI 595479. Solarium cardiophyllum ssp. ehrenbergii Bitter

PI 595480. Solarium cardiophyllum ssp. ehrenbergii Bitter

PI 595481. Solanum polytrichon Rydb.

PI 595482. Solarium cardiophyllum ssp. ehrenbergii Bitter

The following were donated by Aaron Rodriguez-Contreras, Universidad de Guadalajara, Instituto de Botanica, Las Agujas, Nextipac, Zapopan, Jalisco, Mexico. Received 09/14/1993.

PI 595483. Solanum pinnatisectum Dunal

The following were collected by Aaron Rodriguez, University of Wisconsin, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706-1590, United States. Donated by Aaron Rodriguez-Contreras, Universidad de Guadalajara, Instituto de Botanica, Las Agujas, Nextipac, Zapopan, Jalisco, Mexico. Received 09/14/1993.
PI 595484. Solanum pinnatisectum Dunal
Wild. ROD 2574; BE-4893; Q 32569. Collected 08/25/1993 in Jalisco, Mexico. Latitude 21 deg. 17' N. Longitude 101 deg. 51' W. Elevation 2050 m. La Aurora, road from Lagos de Moreno towards Aguascalientes, municipality of Lagos de Moreno. Cornfield, among mesquite-grassland. Plants 40 cm tall.

PI 595485. Solanum brachistotrichum (Bitter) Rydb.
Wild. ROD 2576; BE-4893; Q 32570. Collected 08/25/1993 in Jalisco, Mexico. Latitude 21 deg. 17' N. Longitude 101 deg. 51' W. Elevation 2050 m. La Aurora, road from Lagos de Moreno towards Aguascalientes, municipality of Lagos de Moreno. Cornfield, among mesquite-grassland. Plants 50 cm tall. Corolla stellate, white with lobes purple.

PI 595486. Solanum cardiophyllum ssp. ehrenbergii Bitter
Wild. ROD 2579; BE-4893; Q 32571. Collected 08/26/1993 in Jalisco, Mexico. Latitude 0 deg. 0' N. Longitude 102 deg. 37' W. Elevation 1819 m. Municipality of Valle de Guadalupe, near town and along the road. Along rock fence. Plants 80 cm tall. Corolla stellate, white.

PI 595487. Solanum tuberosum L.
Wild. ROD 2583; BE-4893; Q 32574. Collected 08/30/1993 in Jalisco, Mexico. Elevation 1500 m. Experimental fields around the College of Agriculture, University of Guadalajara, municipality of Zapopan. Escapes from cultivation.

PI 595488. Solanum cardiophyllum ssp. ehrenbergii Bitter
Wild. ROD 2584; BE-4893; Q 32575. Collected 08/30/1993 in Jalisco, Mexico. Elevation 1500 m. Experimental fields around the College of Agriculture, University of Guadalajara, municipality of Zapopan. Growing under Agave sp. Plants 50 cm tall.

PI 595489. Solanum cardiophyllum Lindley
Wild. ROD 2585; BE-4893; Q 32576. Collected 08/30/1993 in Jalisco, Mexico. Elevation 1450 m. Bosque Escuela, La Primavera, ca. 3 km NW of Cuxpala, ca. 10 km SSE of Tala, municipality of Tala. By streamside with Phoebe psychotrioides, Lysiloma acapulcense and Salix humboldtiana. Pedigree - Solanum cardiophyllum X Solanum bulbocastanum. Plants 60 cm tall. Corolla stellate, creamy white.

The following were collected by David Spooner, University of Wisconsin, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706, United States; Andres Contreras, Universidad Austral de Chile, Inst. Produccion y Sanidad Vegetal, Casilla 567, Valdivia, Chile. Donated by Andres Contreras, Universidad Austral de Chile, Inst. Produccion y Sanidad Vegetal, Casilla 567, Valdivia, Chile. Received 12/19/1991.

PI 595490. Solanum tuberosum L.
Wild. SC 4410; CON 883; Azultardia; BE-3768; Q 28783. Collected 02/25/1989 in Los Lagos, Chile. Latitude 41 deg. 52' S. Longitude 73 deg. 36' W. Elevation 5 m. Chiloe. Sector Recta chacao, in field of Rosalia Segovia, ca. 10 km WSW of chacao on road to Ancud. Flowers purple. Fruit green, round, smooth. Tubers named Azultardia.
PI 595491. *Solanum tuberosum* L.
Wild. SC 4421; CON 908; Colorada; BE-3768; Q 28795. Collected 02/26/1989 in Los Lagos, Chile. Latitude 43° 6' S. Longitude 73° 43' W. Elevation 2 m. Chiloe. In Yaldad, just W of Quellon in backyard garden of Clarisa Colivoro. Tubers named Colorada.

PI 595492. *Solanum tuberosum* L.
Wild. SC 4425; CON 912; Guadacho; BE-3768; Q 28797. Collected 02/26/1989 in Los Lagos, Chile. Latitude 43° 6' S. Longitude 73° 43' W. Elevation 2 m. Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro. Tubers named Guadacho.

PI 595493. *Solanum tuberosum* L.
Wild. SC 4426; CON 913; Mantequilla Colorado; BE-3768; Q 28798. Collected 02/26/1989 in Los Lagos, Chile. Latitude 43° 6' S. Longitude 73° 43' W. Elevation 2 m. Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro. Tubers named Mantequilla Colorada.

PI 595494. *Solanum tuberosum* L.
Wild. SC 4427; CON 814; Gualatito; BE-3768; Q 28799. Collected 02/26/1989 in Los Lagos, Chile. Latitude 43° 6' S. Longitude 73° 43' W. Elevation 2 m. Chiloe. In Yaldad, just W of Quellon, in backyard garden of Clarisa Colivoro. Tubers named Gualatito.

The following were collected by Raul Castillo, Instituto Nacional de Investigaciones Agropecuarias, Departamento de Recursos, Fitogeneticos, Estacion Experimental, Quito, Ecuador; David Spooner, University of Wisconsin, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706, United States; Luis E. Lopez, Carrera 15 # 14-57, Edificio Lucerne Ap. 303, Armenia Diundio, Colombia. Donated by Raul Castillo, Instituto Nacional de Investigaciones Agropecuarias, Departamento de Recursos, Fitogeneticos, Estacion Experimental, Quito, Ecuador. Received 01/24/1992.

PI 595495. *Solanum tuquerrense* Hawkes

The following were collected by Ronald Van den Berg, Wageningen Agricultural University, Department of Plant Taxonomy, P.O. Box 8010, 6700 ED, Wageningen, Netherlands; David Spooner, University of Wisconsin, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706, United States; William Garcia Fernandez, PROINPA (Programa de Investigacion de la Papa), IBTA (Instituto de Boliviano Tecnologia Agropecuaria), Calle Man Cesped 923, Cochabamba, Bolivia; Maria Luisa Ugarte, PROINPA (Programa de Investigacion de la Papa), IBTA (Instituto de Boliviano Tecnologia Agropecuaria), Calle Man Cesped 923, Cochabamba, Bolivia. Donated by William Garcia Fernandez, PROINPA (Programa de Investigacion de la Papa), IBTA (Instituto de Boliviano Tecnologia Agropecuaria), Calle Man Cesped 923, Cochabamba, Bolivia.
PI 595496. *Solanum tuberosum ssp. andigena* Hawkes
Wild. SFVU 6727; BE-4652; Q 30483. Collected 03/16/1993 in Cochabamba, Bolivia. Latitude 16 deg. 52' S. Longitude 67 deg. 8' W. Elevation 2450 m. Inquisivi: Sita, a small community S of Licoma, 1:250,000-scale map SE 19-4. growing in a corn field, common. Flowers gone, but said by owner of field to have blue corollas. Fruits abundant, round. Tubers deep in the ground on long stolons.

PI 595497. *Solanum tuberosum ssp. andigena* Hawkes
Wild. SFVU 6747; BE-4652; Q 30490. Collected 03/24/1993 in La Paz, Bolivia. Latitude 15 deg. 32' S. Longitude 69 deg. 1' W. Elevation 3585 m. Camacho: from ca 20 km N of Escoma, go east at Cruce de Kariguani, then east ca 7 km to Canchi Tamampayu, 1:250,000-scale map SD 19-14. growing in backyard garden. Stems wilted, flowers and fruits gone. Tubers at end of long stolons, deep in the ground, with skin and flesh white, speckled with pink.

PI 595498. *Solanum tuberosum ssp. andigena* Hawkes
Wild. SFVU 6749; BE-4652; Q 30492. Collected 03/25/1993 in La Paz, Bolivia. Latitude 15 deg. 27' S. Longitude 68 deg. 59' W. Elevation 3361 m. Camacho: growing by town square of Moko Moko, a small town between Italaque and Chuma, in backyard garden of Yasick Fernandez, 1:250,000-scale map SD 19-15. growing in backyard garden where it is said by the owner to be a persistent and common weed, flowering and fruiting in January and February. Stems wilted to the ground. Tubers at the end of long stolons, deep in the ground. Tubers with purple-brown skin and flesh.

PI 595499. *Solanum tuberosum ssp. andigena* Hawkes
Wild. SFVU 6750; BE-4652; Q 30493. Collected 03/26/1993 in La Paz, Bolivia. Latitude 15 deg. 10' S. Longitude 69 deg. 2' W. Elevation 3120 m. Saavedra: 3 km uphill towards Chari from Charazani, in Comunidad Lunlay, 1:250,000-scale map SD 19-14. growing in cornfield. Stems wilted to the ground. Tubers at the end of long stolons, deep in the ground.

PI 595500. *Solanum tuberosum ssp. andigena* Hawkes
Wild. SFVU 6751; BE-4652; Q 30494. Collected 03/26/1993 in La Paz, Bolivia. Latitude 15 deg. 10' S. Longitude 69 deg. 2' W. Elevation 3350 m. Saavedra: 6 km uphill from Charazani towards Chari, in a small community, 1:250,000-scale map SD 19-14. growing in backyard garden. Plants young, without flowers or fruits. Tubers at the end of long stolons, deep in the ground, skin and flesh white with pink flecks.

PI 595501. *Solanum brevicaule* Bitter
Wild. SFVU 6765; BE-4652; Q 30495. Collected 04/01/1993 in La Paz, Bolivia. Latitude 15 deg. 55' S. Longitude 68 deg. 39' W. Elevation 4124 m. Omasuyos: 7 km N of Huarisata on road to Sorata, just above the small Indian village of Occo Hualata, 1:250,000-scale map SD 19-15. growing in organic and stony soil among rocks. Note: type locality of *S. achacasense* Card. (S. achacachense may be a good species, but we have trouble distinguishing these two now). Plants old and wilted. Flowers
and fruits gone. Small tubers collected.

PI 595502. Solanum candolleanum Berthault
Wild. SPVU 6768; BE-4652; Q 30496. Collected 04/02/1993 in La Paz, Bolivia. Latitude 15 deg. 44' S. Longitude 68 deg. 38' W. Elevation 3690 m. Larecaja: 17 km N of town square of Sorata on road to Tacacoma, 1:250,000-scale map SD 19-15. growing in organic soil by side of road in shade of trees. Plants young, without flowers or fruits. 2 young tubers collected.

PI 595503. Solanum candolleanum Berthault
Wild. SPVU 6769; BE-4652; Q 30497. Collected 04/02/1993 in La Paz, Bolivia. Latitude 15 deg. 44' S. Longitude 68 deg. 38' W. Elevation 3860 m. Larecaja: 17 km N of town square of Sorata on road to Tacacoma, 1:250,000-scale map SD 19-15. growing in pockets of organic soil in crevices of cliff face. Plants young, no flowers or fruits yet present. Young tubers collected.

The following were collected by A. Rivera Pena, Inst. Nacional de Inv. Agr. (INIA), Apartado Postal No. 487, Edo De Mexico, Toluca, Mexico; J.P. Hjerting, Kobenhavns Universitet, Botanisk Have, Oster Farimagsgade 2B, Copenhagen, Denmark; R. Ross, USDA, ARS, Inter-Regional Potato Intro. Station, Peninsula Experiment Station, Sturgeon Bay, Wisconsin 52435, United States; T. Richard Tarn, Agriculture Canada, Research Center & Agric-Food, 850 Lincoln Road, Fredericton, New Brunswick E3B 4Z7, Canada; J. Gomez. Donated by A. Rivera Pena, Inst. Nacional de Inv. Agr. (INIA), Apartado Postal No. 487, Edo De Mexico, Toluca, Mexico. Received 12/08/1983.

PI 595504. Solanum polytrichon Rydb.

The following were donated by Roel Hoekstra, Institute of Crop Sci. & Plant Breeding, Federal Research Center of Agriculture, Bundesallee 50, Braunschweig, Germany. Received 04/12/1995.

PI 595505. Solanum microdontum Bitter
Wild. EBS 2879; BGRC 18568; Q 35921. Collected in Bolivia.

PI 595506. Solanum microdontum Bitter
Wild. HOF 1976; BGRC 18570; Q 35922. Collected in Argentina.

PI 595507. Solanum berthaultii Hawkes
Wild. EBS 1271 X 1218; BGRC 18548; Q 35923. Collected in Bolivia.

The following were collected by J.P. Hjerting, Kobenhavns Universitet, Botanisk Have, Oster Farimagsgade 2B, Copenhagen, Denmark; E. Petersen, Kleif, Arskag-sstrono, Eyjafjarsysla, Iceland; K. Rahn, Landbrugets Kartoffelfond, Foraedingstationen, Vandel, Denmark. Donated by Roel Hoekstra, Institute of Crop Sci. & Plant Breeding, Federal Research Center of
PI 595508. Solanum microdontum Bitter

The following were donated by Roel Hoekstra, Institute of Crop Sci. & Plant Breeding, Federal Research Center of Agriculture, Bundesallee 50, Braunschweig, Germany. Received 04/12/1995.

PI 595509. Solanum microdontum Bitter
Wild. EBS 1091; BGRC 24981; Q 35925.

The following were collected by W. Hondelmann, Gene Bank, Institut Pflanzenbau FAL, Braunschweig, Germany; D. Astley, IBPGR, Rome, Italy; A. Moreira, Bolivia. Donated by Roel Hoekstra, Institute of Crop Sci. & Plant Breeding, Federal Research Center of Agriculture, Bundesallee 50, Braunschweig, Germany. Received 04/12/1995.

PI 595510. Solanum microdontum Bitter
Wild. HAM 175; BGRC 27352; Q 35926. Collected 03/27/1980 in Tarija, Bolivia. Latitude 21 deg. 24' S. Longitude 64 deg. 28' W. Elevation 2350 m. Cercado. 54 km from Tarija to Entre Rios.

PI 595511. Solanum microdontum Bitter
Wild. HAM 176; BGRC 27353; Q 35927. Collected 03/27/1980 in Tarija, Bolivia. Latitude 21 deg. 24' S. Longitude 64 deg. 26' W. Elevation 2200 m. Cercado. 56 km from Tarija to Entre Rios.

PI 595512. Solanum x sucrense Hawkes
Wild. HAM 197; BGRC 27370; Q 35928. Collected 04/01/1980 in Potosi, Bolivia. Latitude 19 deg. 33' S. Longitude 65 deg. 42' W. Elevation 3600 m. Frias. 5 km from Potosi on road to Betanzos.

The following were developed by Stepan Kiru, N.I. Vavilov Institute of Plant Industry, Department of Tuber Crops, 44 Herzen Street, St. Petersburg, Russian Federation. Received 07/27/1995.

PI 595513. Solanum brachycarpum (Correll) Correll
Wild. CPC 2292; VIR 2830; Q 35952. Collected in Mexico.

PI 595514. Solanum phureja Juz. & Buk.
Wild. VIR 17648; Q 35963; Q 35953.

The following were developed by Stepan Kiru, N.I. Vavilov Institute of Plant Industry, Department of Tuber Crops, 44 Herzen Street, St. Petersburg, Russian Federation. Received 07/27/1995.

PI 595515. Solanum tuberosum L.
PI 595516. Solanum tuberosum L.  

PI 595517. Solanum tuberosum L.  

PI 595518. Solanum tuberosum L.  

PI 595519. Solanum tuberosum L.  

PI 595520. Solanum tuberosum L.  

PI 595521. Solanum tuberosum L.  

PI 595522. Solanum tuberosum L.  

PI 595523. Solanum tuberosum L.  

PI 595524. Solanum tuberosum L.  

The following were collected by J.P. Hjerting, Kobenhavns Universitet, Botanisk Have, Oster Farimagsgade 2B, Copenhagen, Denmark. Donated by Max W. Martin, University of Wisconsin, Potato Introduction Station, 4312 Hwy 42, Sturgeon Bay, Wisconsin 54235, United States. Received 01/03/1992.

PI 595525. Solanum oxycarpum Schiede  
Wild. HJT 7344; BE-3783; Q 28836. Collected 10/10/1991 in Puebla, Mexico. Elevation 2500 m. 21 km along road from Coxcatlan towards Zogutlan turning off from the Tehuacan to Oaxaca road.

PI 595526. Solanum verrucosum Schldl.  
Wild. HJT 7396; BE-3783; Q 28846. Collected 10/22/1991 in Nuevo Leon, Mexico. Elevation 3280 m. Cerro Potosi, road up to microhonda station, about 20 km along road. Pine woods.

The following were developed by S.K. Vasal, International Maize & Wheat Improvement Center, Lisboa-27, Apdo. Post 6-641, Mexico, Federal District 06600, Mexico; Ganesan Srinivasan, International Maize & Wheat Improvement Center, Lisboa 27, Apdo. Postal 6-641, Mexico City, Mexico 06600, Mexico; N. Vergara, International Maize & Wheat Improvement Center, Lisboa 27, Apdo. Postal 6-641, Mexico, Mexico 06600, Mexico; B.S. Dhillon, Department of Plant Breeding, Punjab Agricultural University, Ludhiana, Punjab, India; S.H. Zhang, International Maize & Wheat Improvement Center, Apdo. Postal 6-641,
PI 595527. *Zea mays* L. *ssp. mays*  
Breeding. Inbred. CML 3; CL-02103. PL-194. Pedigree - Pop.21C5 
FS84-2-1-B-3-B. Lowland tropical white maize inbred line with good 
general combining ability. Grain yield 1 and standability 1.5 (1 = good, 
5 = poor). Days to 50% silk 63. Grain texture dent. Plant height 143 cm. 
Ear rot 1.9, *Puccinia polysora* 1.3, and *Bipolaris maydis* 1.6 (1 = 
resistant, 5 = susceptible).

PI 595528. *Zea mays* L. *ssp. mays*  
Breeding. Inbred. CML 6; CL-02106. PL-195. Pedigree - Pop.21C5 
FS218-2-3-B-##-6-1-1-BB. Lowland tropical white maize inbred line with 
good general combining ability. Grain yield 2 and standability 2.0 (1 = 
good, 5 = poor). Days to 50% silk 65. Grain texture dent. Plant height 
183 cm. Ear rot 1.9, *Puccinia polysora* 2.4, and *Bipolaris maydis* 2.1 (1 
= resistant, 5 = susceptible).

PI 595529. *Zea mays* L. *ssp. mays*  
Breeding. Inbred. CML 8; CL-02108. PL-196. Pedigree - Pop.21C5 
FS218-2-3-B-####. Lowland tropical white maize inbred line with good 
general combining ability. Grain yield 2 and standability 1.0 (1 = good, 
5 = poor). Days to 50% silk 67. Grain texture dent. Plant height 171 cm. 
Ear rot 1.8, *Puccinia polysora* 2.1, and *Bipolaris maydis* 1.9 (1 = 
resistant, 5 = susceptible).

PI 595530. *Zea mays* L. *ssp. mays*  
Breeding. Inbred. CML 9; CL-02109. PL-197. Pedigree - Pop.21C5 
FS219-3-1-B-###. Lowland tropical white maize inbred line with good 
general combining ability. Grain yield 2 and standability 1.0 (1 = good, 
5 = poor). Days to 50% silk 69. Grain texture semi-dent. Plant height 
147 cm. Ear rot 1.9, *Puccinia polysora* 1.5, and *Bipolaris maydis* 2.2 (1 
= resistant, 5 = susceptible).

PI 595531. *Zea mays* L. *ssp. mays*  
Breeding. Inbred. CML 17; CL-02203. PL-198. Pedigree - Pop.22 TSR (S2 
bulk)-40-2-1-2-B. Lowland tropical white maize inbred line with good 
general combining ability. Grain yield 3 and standability 1.5 (1 = good, 
5 = poor). Days to 50% silk 69. Grain texture flint. Plant height 163 
cm. Ear rot 2.8, *Puccinia polysora* 2.8, and *Bipolaris maydis* 1.9 (1 = 
resistant, 5 = susceptible).

PI 595532. *Zea mays* L. *ssp. mays*  
Breeding. Inbred. CML 22; CL-02501. PL-199. Pedigree - Pop.25 
FS31-1-2-1-3-1-B-##. Lowland tropical white maize inbred line with good 
general combining ability. Grain yield 2 and standability 1.5 (1 = good, 
5 = poor). Days to 50% silk 61. Grain texture flint. Plant height 162 
cm. Ear rot 1.7, *Puccinia polysora* 2.0, and *Bipolaris maydis* 2.4 (1 = 
resistant, 5 = susceptible).

PI 595533. *Zea mays* L. *ssp. mays*  
Breeding. Inbred. CML 36; CL-03201. PL-200. Pedigree - Pop.32C4 
FS20-3-4-B-##-B-####. Lowland tropical white maize inbred line with good
general combining ability. Grain yield 3 and standability 2.0 (1 = good, 5 = poor). Days to 50% silk 65. Grain texture flint. Plant height 174 cm. Ear rot 1.9, Puccinia polysora 2.3, and Bipolaris maydis 2.7 (1 = resistant, 5 = susceptible).

PI 595534. Zea mays L. ssp. mays
Breeding. Inbred. CML 38; CL-03203. PL-201. Pedigree - Pop.32C4 FS142-1-1-B-###. Lowland tropical white maize inbred line with good general combining ability. Grain yield 2 and standability 2.5 (1 = good, 5 = poor). Days to 50% silk 60. Grain texture flint. Plant height 162 cm. Ear rot 2.7, Puccinia polysora 2.0, and Bipolaris maydis 2.8 (1 = resistant, 5 = susceptible).

PI 595535. Zea mays L. ssp. mays
Breeding. Inbred. CML 43; CL-04302. PL-202. Pedigree - Ac.7843-16-1-2-B-1-B. Lowland tropical white maize inbred line with good general combining ability. Grain yield 2 and standability 2.0 (1 = good, 5 = poor). Days to 50% silk 63. Grain texture dent. Plant height 150 cm. Ear rot 2.5, Puccinia polysora 2.0, and Bipolaris maydis 2.0 (1 = resistant, 5 = susceptible).

PI 595536. Zea mays L. ssp. mays

PI 595537. Zea mays L. ssp. mays
Breeding. Inbred. CML 48; CL-07301. PL-204. Pedigree - Porillo 8073-11-1-1-###. Lowland tropical white maize inbred line with good general combining ability. Grain yield 3 and standability 1.5 (1 = good, 5 = poor). Days to 50% silk 64. Grain texture dent. Plant height 171 cm. Ear rot 1.6, Puccinia polysora 3.0, and Bipolaris maydis 2.5 (1 = resistant, 5 = susceptible).

PI 595538. Zea mays L. ssp. mays
Breeding. Inbred. CML 49; CL-07302. PL-205. Pedigree - Sta. Rosa 8073-6-1-1-###. Lowland tropical white maize inbred line with good general combining ability. Grain yield 3 and standability 1.5 (1 = good, 5 = poor). Days to 50% silk 62. Grain texture dent. Plant height 170 cm. Ear rot 1.4, Puccinia polysora 2.0, and Bipolaris maydis 2.2 (1 = resistant, 5 = susceptible).

PI 595539. Zea mays L. ssp. mays
Breeding. Inbred. CML 54; CL-P2401. PL-206. Pedigree - Pool 24C20 HS94-1-4-B-1-3-1-1-B. Lowland tropical white maize inbred line with good general combining ability. Grain yield 3 and standability 3.0 (1 = good, 5 = poor). Days to 50% silk 64. Grain texture semi-dent. Plant height 162 cm. Ear rot 2.5, Puccinia polysora 2.3, and Bipolaris maydis 2.4 (1 = resistant, 5 = susceptible).

PI 595540. Zea mays L. ssp. mays
Breeding. Inbred. CML 55; CL-P2402. PL-207. Pedigree - Pool 24 TSR
19-3-B-####. Lowland tropical white maize inbred line with good general combining ability. Grain yield 1 and standability 1.0 (1 = good, 5 = poor). Days to 50% silk 64. Grain texture semi-flint. Plant height 162 cm. Ear rot 2.2, Puccinia polysora 1.8, and Bipolaris maydis 1.9 (1 = resistant, 5 = susceptible).

PI 595541. Zea mays L. ssp. mays
Breeding. Inbred. CML 247; CL-P2404. PL-208. Pedigree - (Pool 24 FS119*FS24) - 4-6-1-1-BB-f. Lowland tropical white maize inbred line with good general combining ability. Grain yield 1 and standability 2.5 (1 = good, 5 = poor). Days to 50% silk 65. Grain texture semi-dent. Plant height 165 cm. Ear rot 1.7, Puccinia polysora 1.8, and Bipolaris maydis 1.4 (1 = resistant, 5 = susceptible).

PI 595542. Zea mays L. ssp. mays

PI 595543. Zea mays L. ssp. mays

PI 595544. Zea mays L. ssp. mays
Breeding. Inbred. CML 264; CL-02129. PL-211. Pedigree - Pop.21C5 FS219-3-1-B-##-8-1-3-BB. Lowland tropical white maize inbred line with good general combining ability. Grain yield 3 and standability 2.5 (1 = good, 5 = poor). Days to 50% silk 67. Grain texture flint. Plant height 162 cm. Ear rot 2.2, Puccinia polysora 3.0, and Bipolaris maydis 2.0 (1 = resistant, 5 = susceptible).

PI 595545. Zea mays L. ssp. mays
Breeding. Inbred. CML 267; CL-02205. PL-212. Pedigree - Pop.22 TSR-4-3-1-3-1-BB-f. Lowland tropical white maize inbred line with good general combining ability. Grain yield 3 and standability 4.0 (1 = good, 5 = poor). Days to 50% silk 64. Grain texture dent. Plant height 195 cm. Ear rot 1.8, Puccinia polysora 3.8, and Bipolaris maydis 2.0 (1 = resistant, 5 = susceptible).

PI 595546. Zea mays L. ssp. mays
Breeding. Inbred. CML 268; CL-02301. PL-213. Pedigree - Pop.231STC1 FS45-1-1-1-2-3-BB-f. Lowland tropical white maize inbred line with good general combining ability. Grain yield 3 and standability 3.0 (1 = good, 5 = poor). Days to 50% silk 67. Grain texture flint. Plant height 205 cm. Ear rot 2.7, Puccinia polysora 2.8, and Bipolaris maydis 1.6 (1 = resistant, 5 = susceptible).

PI 595547. Zea mays L. ssp. mays

PI 595548. Zea mays L. ssp. mays
Breeding. Inbred. CML 273; CL-04307. PL-215. Pedigree - (Ac.7643*Pop.43 FS7)-2-3-2-1-BB-f. Lowland tropical white maize inbred line with good general combining ability. Grain yield 1 and standability 2.0 (1 = good, 5 = poor). Days to 50% silk 63. Grain texture dent. Plant height 195 cm. Ear rot 1.5, Puccinia polysora 2.2, and Bipolaris maydis 1.8 (1 = resistant, 5 = susceptible).

PI 595549. Zea mays L. ssp. mays
Breeding. Inbred. CML 274; CL-04308. PL-216. Pedigree - (Ac.7643*Pop.43 FS7)-2-3-4-3-BB-f. Lowland tropical white maize inbred line with good general combining ability. Grain yield 1 and standability 2.0 (1 = good, 5 = poor). Days to 50% silk 65. Grain texture dent. Plant height 190 cm. Ear rot 2.0, Puccinia polysora 2.2, and Bipolaris maydis 1.4 (1 = resistant, 5 = susceptible).

PI 595550. Zea mays L. ssp. mays

The following were developed by S.K. Vasal, International Maize & Wheat Improvement Center, Lisboa-27, Apdo. Postal 6-641, Mexico, Federal District 06600, Mexico; Ganesan Srinivasan, International Maize & Wheat Improvement Center, Lisboa 27, Apdo. Postal 6-641, Mexico City, Mexico 06600, Mexico; N. Vergara, International Maize & Wheat Improvement Center, Lisboa 27, Apdo. Postal 6-641, Mexico, Mexico 06600, Mexico; B.S. Dhillon, Department of Plant Breeding, Punjab Agricultural University, Ludhiana, Punjab, India; S.H. Zhang, International Maize & Wheat Improvement Center, Apdo. Postal 6-641, Lisboa 27, Mexico City, Federal District 06600, Mexico; S.D. McLean, International Maize & Wheat Improvement Center, Apdo. Postal 6-641, Lisboa 27, Mexico City, Federal District 06600, Mexico; F. San Vicente, International Maize & Wheat Improvement Center, Apdo. Postal 6-641, Lisboa 27, Mexico City, Federal District 06600, Mexico; Sai K. Ramanujam, International Maize & Wheat Improvement Center, Apdo. Postal 6-641, Lisboa 27, Mexico City, Federal District 06600, Mexico. Received 07/22/1996.

PI 595551. Zea mays L. ssp. mays
Breeding. Inbred. CML 19; CL-02402. PL-218. Pedigree - Pop.24 C5FS26-1-3-4-2-B-3-1-##-. Lowland tropical yellow maize inbred line with good general combining ability. Grain yield 2 and standability 2.0 (1 = good, 5 = poor). Days to 50% silk 68. Grain texture semi-dent. Plant height 174 cm. Ear rot 2.4, Puccinia polysora 1.5, and Bipolaris maydis 3.0 (1 = resistant, 5 = susceptible).
PI 595552. Zea mays L. ssp. mays
C5FS4-2-3-B-###. Lowland tropical yellow maize inbred line with good
general combining ability. Grain yield 2 and standability 2.0 (1 = good,
Ear rot 2.2, Puccinia polysora 1.7, and Bipolaris maydis 2.1 (1 =
resistant, 5 = susceptible).

PI 595553. Zea mays L. ssp. mays
Breeding. Inbred. CML 25; CL-02601. PL-220. Pedigree - Pop.26
C5FS17-1-4-B-f-B. Lowland tropical yellow maize inbred line with good
general combining ability. Grain yield 2 and standability 2.0 (1 = good,
5 = poor). Days to 50% silk 62. Grain texture flint. Plant height 152
Ear rot 2.1, Puccinia polysora 2.1, and Bipolaris maydis 2.1 (1 =
resistant, 5 = susceptible).

PI 595554. Zea mays L. ssp. mays
Breeding. Inbred. CML 27; CL-02701. PL-221. Pedigree - Pop.27
C5FS1-1-3-B-###. Lowland tropical yellow maize inbred line with good
general combining ability. Grain yield 2 and standability 1.5 (1 = good,
5 = poor). Days to 50% silk 64. Grain texture semi-dent. Plant height
165 cm. Ear rot 2.2, Puccinia polysora 1.6, and Bipolaris maydis 2.5 (1
= resistant, 5 = susceptible).

PI 595555. Zea mays L. ssp. mays
Breeding. Inbred. CML 28; CL-02702. PL-222. Pedigree - Pop.27
C5FS35-8-3-B-###-B. Lowland tropical yellow maize inbred line with good
general combining ability. Grain yield 2 and standability 1.5 (1 = good,
5 = poor). Days to 50% silk 64. Grain texture flint. Plant height 160
Ear rot 2.5, Puccinia polysora 3.0, and Bipolaris maydis 2.5 (1 =
resistant, 5 = susceptible).

PI 595556. Zea mays L. ssp. mays
Breeding. Inbred. CML 29; CL-02703. PL-223. Pedigree - Pop.27
C5FS71-3-1-B-####. Lowland tropical yellow maize inbred line with good
general combining ability. Grain yield 2 and standability 2.0 (1 = good,
5 = poor). Days to 50% silk 65. Grain texture flint. Plant height 175
Ear rot 2.0, Puccinia polysora 1.7, and Bipolaris maydis 1.8 (1 =
resistant, 5 = susceptible).

PI 595557. Zea mays L. ssp. mays
Breeding. Inbred. CML 31; CL-02705. PL-224. Pedigree - Pop.27
C5FS117-1-4-B-###. Lowland tropical yellow maize inbred line with good
general combining ability. Grain yield 2 and standability 2.0 (1 = good,
5 = poor). Days to 50% silk 65. Grain texture flint. Plant height 175
Ear rot 3.3, Puccinia polysora 1.7, and Bipolaris maydis 2.3 (1 =
resistant, 5 = susceptible).

PI 595558. Zea mays L. ssp. mays
Breeding. Inbred. CML 32; CL-02801. PL-225. Pedigree - Pop.28 TSR (S2
bulk)-11-2-4-B-1-##. Lowland tropical yellow maize inbred line with good
general combining ability. Grain yield 1 and standability 1.0 (1 = good,
5 = poor). Days to 50% silk 62. Grain texture semi-dent. Plant height
143 cm. Ear rot 2.6, Puccinia polysora 2.3, and Bipolaris maydis 2.6 (1
PI 595559. Zea mays L. ssp. mays
Breeding. Inbred. CML 33; CL-2802. PL-226. Pedigree - Pop.28 TSR (S2 bulk)-21-3-1-3-1-###. Lowland tropical yellow maize inbred line with good general combining ability. Grain yield 1 and standability 1.0 (1 = good, 5 = poor). Days to 50% silk 61. Grain texture flint. Plant height 153 cm. Ear rot 2.1, Puccinia polysora 1.5, and Bipolaris maydis 2.0 (1 = resistant, 5 = susceptible).

PI 595560. Zea mays L. ssp. mays
Breeding. Inbred. CML 40; CL-03601. PL-227. Pedigree - Pop.36 C5FS144-2-2-B-###. Lowland tropical yellow maize inbred line with good general combining ability. Grain yield 1 and standability 2.5 (1 = good, 5 = poor). Days to 50% silk 65. Grain texture semi-dent. Plant height 188 cm. Ear rot 1.7, Puccinia polysora 2.4, and Bipolaris maydis 2.7 (1 = resistant, 5 = susceptible).

PI 595561. Zea mays L. ssp. mays

PI 595562. Zea mays L. ssp. mays
Breeding. Inbred. CML 282; CL-P2201. PL-229. Pedigree - (Pool 22 x Pool 22)-2-2-3-1-BB-##. Lowland tropical yellow maize inbred line with good general combining ability. Grain yield 2 and standability 3.0 (1 = good, 5 = poor). Days to 50% silk 63. Grain texture semi-dent. Plant height 177 cm. Ear rot 1.5, Puccinia polysora 4.8, and Bipolaris maydis 2.0 (1 = resistant, 5 = susceptible).

PI 595563. Zea mays L. ssp. mays

PI 595564. Zea mays L. ssp. mays
Breeding. Inbred. CML 285; CL-02405. PL-231. Pedigree - Pop.24C5FS34-2-B-f-2-BBB-#. Lowland tropical yellow maize inbred line with good general combining ability. Grain yield 1 and standability 3.0 (1 = good, 5 = poor). Days to 50% silk 61. Grain texture dent. Plant height 175 cm. Ear rot 1.5, Puccinia polysora 3.5, and Bipolaris maydis 2.0 (1 = resistant, 5 = susceptible).

PI 595565. Zea mays L. ssp. mays
Breeding. Inbred. CML 287; CL-02407. PL-232. Pedigree - (Pop.24 x Pop.27)-4-1-1-1-BB-###. Lowland tropical yellow maize inbred line with good general combining ability. Grain yield 2 and standability 2.5 (1 = good, 5 = poor). Days to 50% silk 61. Grain texture flint. Plant height
200 cm. Ear rot 1.5, Puccinia polysora 4.7, and Bipolaris maydis 2.0 (1 = resistant, 5 = susceptible).

PI 595566. Zea mays L. ssp. mays

PI 595567. Zea mays L. ssp. mays

PI 595568. Zea mays L. ssp. mays

PI 595569. Zea mays L. ssp. mays

PI 595570. Zea mays L. ssp. mays
Breeding. Inbred. CML 303; CL-00320. PL-237. Pedigree - Syn.Amarillo TSR-23-3-2-4-3-BB-###. Lowland tropical yellow maize inbred line with good general combining ability. Grain yield 2 and standability 3.0 (1 = good, 5 = poor). Days to 50% silk 64. Grain texture flint. Plant height 173 cm. Ear rot 2.3, Puccinia polysora 2.2, and Bipolaris maydis 2.0 (1 = resistant, 5 = susceptible).

PI 595571. Zea mays L. ssp. mays
Breeding. Inbred. CML 305; CL-00302. PL-238. Pedigree - Syn.Amarillo TSR-23-2-2-1-3-BB-###. Lowland tropical yellow maize inbred line with good general combining ability. Grain yield 3 and standability 2.0 (1 = good, 5 = poor). Days to 50% silk 63. Grain texture dent. Plant height 182 cm. Ear rot 1.5, Puccinia polysora 2.8, and Bipolaris maydis 2.0 (1 = resistant, 5 = susceptible).

The following were developed by Asgrow Seed Company, United States. Received 1974.
PI 595572. Pisum sativum L.
   Cultivar. "JUNEAU". PVP 7400054.

The following were developed by Morrison Brothers Seed Co., United States. Received 1975.

PI 595573. Pisum sativum L.
   Cultivar. "LEO". PVP 7400053.

The following were developed by Crites Moscow Growers, Inc., Moscow, Idaho, United States. Received 1978.

PI 595574. Pisum sativum L.
   Cultivar. "REBEL". PVP 7700047.

The following were developed by A.G. Gustafson, United States. Received 1978.

PI 595575. Pisum sativum L.
   Cultivar. "GYPSY". PVP 7700011.

The following were developed by W. Atlee Burpee Company, United States. Received 1978.

PI 595576. Lactuca sativa L.
   Cultivar. "ROYAL OAK LEAF". PVP 7800009. Passport data not available for "Royal Oak Leaf".

The following were developed by Cornell University, New York Agr. Exp. Sta., Ithaca, New York, United States. Received 1978.

PI 595577. Medicago sativa L. ssp. sativa
   Cultivar. "MULTILEAF". PVP 7300100.

The following were developed by Victor Heintzberger, Bruce Church Company, 1020 Merrill Street, Salinas, California 93912, United States. Received 1978.

PI 595578. Lactuca sativa L.
   Cultivar. "WINTER SUPREME". PVP 7800014. Passport data not available for "Winter Supreme".

The following were developed by A.G. Gustafson, United States. Received 1978.

PI 595579. Pisum sativum L.
   Cultivar. "GRANADA". PVP 7800017.

The following were developed by Canners Seed Corporation, Lewisville, Idaho, United States. Received 1978.
The following were developed by W. Brotherton Seed Company, Inc., United States. Received 1978.

PI 595580. *Pisum sativum* L.
Cultivar. "NO. 6060 FREEZER". PVP 7600016.

The following were developed by W. Brotherton Seed Company, Inc., United States. Received 1978.

PI 595581. *Pisum sativum* L.
Cultivar. "AVON". PVP 7800036.

PI 595582. *Pisum sativum* L.
Cultivar. "QUINCY". PVP 7800037.

The following were developed by Quali-Sel, Inc., United States. Received 1978.

PI 595583. *Lactuca sativa* L.
Cultivar. "GILA". PVP 7600014.

PI 595584. *Lactuca sativa* L.
Cultivar. "BLANCO". PVP 7800062.

The following were developed by Asgrow Seed Company, United States. Received 1978.

PI 595585. *Pisum sativum* L.
Cultivar. "ANDES". PVP 7800044.

The following were developed by W. Brotherton Seed Company, Inc., United States. Received 1978.

PI 595586. *Pisum sativum* L.
Cultivar. "GRANT". PVP 7800039.

PI 595587. *Pisum sativum* L.
Cultivar. "SUSSEX". PVP 7800038.

The following were developed by Zwaan and de Wiljes Ltd., Netherlands. Received 1978.

PI 595588. *Poa compressa* L.
Cultivar. "HARMONY". PVP 7700107.

The following were developed by James B. Moutray, ABI Alfalfa, 2316 259th Street, Ames, Iowa 50011, United States; J.R. Thomas. Donated by Rudy-Patrick Seed Company, Ames, Iowa, United States. Received 1972.

PI 595589. *Medicago sativa* L. *ssp. sativa*
Cultivar. "ANCHOR"; REG NO 59. CV-59; PVP 7200039. Pedigree - 9-clone
synthetic derived from Apex (1), Alfa (1), Saranac (1), DuPuits (3), and Alfa with 2 cycles of recurrent selection for bacterial wilt resistance (3). Flemish-type cultivar. Similar to Vernal in winterhardiness. Flowers mostly light to dark purple with very few variegated. Adapted to Central and Northern Corn Belt, Northeastern U.S., and eastern Canada. Higher yielding than Vernal and rapid recovery after cutting. Resistant to bacterial wilt and downy mildew. Moderately resistant to pea aphid. More tolerant to potato leafhopper yellowing than DuPuits or Apex.

The following were developed by Ferry-Morse Seed Company, United States. Received 1979.

PI 595590. Lactuca sativa L.  
Cultivar. "CALSWEET". PVP 7800089.

The following were developed by Asgrow Seed Company, United States. Received 1979.

PI 595591. Pisum sativum L.  
Cultivar. "DANTE". PVP 7800094.

The following were developed by M.S. Offutt, University of Arkansas, Fayetteville, Arkansas 72701, United States. Donated by Arkansas Agr. Exp. Sta., Arkansas, United States. Received 1971.

PI 595592. Medicago sativa L. ssp. sativa  

The following were developed by Zwaan and de Wiljes Ltd., Netherlands. Received 1979.

PI 595593. Poa pratensis L.  
Cultivar. "WELCOME". PVP 7700063.

The following were developed by Zelder B.V., Netherlands. Received 1979.

PI 595594. Festuca rubra ssp. fallax (Thuill.) Nyman  
Cultivar. "AGRAM". PVP 7700032.

The following were developed by Joseph Harris Company, Inc., Moreton Farm,
PI 595595. Lactuca sativa L.
   Cultivar. "DEEP RED". PVP 7800086.

The following were developed by Quali-Sel, Inc., United States. Received 1979.

PI 595596. Lactuca sativa L.
   Cultivar. "AMARAL 400". PVP 7800083.

PI 595597. Lolium perenne L.
   Cultivar. "VIVID". PVP 9600330.

The following were developed by Williamette Seed Company, United States. Received 08/12/1996.

PI 595598. Medicago sativa L.
   Cultivar. "SUPERBA". PVP 9600331.

PI 595599. Medicago sativa L.
   Cultivar. "5681". PVP 9600332.

The following were developed by Pioneer Hi-Bred International, Inc., United States. Received 08/13/1996.

PI 595600. Phaseolus vulgaris L.
   Cultivar. "CAJUN". PVP 9600334.

PI 595601. Medicago sativa L.
   Cultivar. "5939". PVP 9600333.

The following were developed by Rogers Seed Company, United States. Received 08/14/1996.

PI 595602. Phaseolus vulgaris L.
   Cultivar. "MONET". PVP 9600335.

PI 595603. Phaseolus vulgaris L.
   Cultivar. "PRAIRIE". PVP 9600336.

PI 595604. Phaseolus vulgaris L.
   Cultivar. "REMINGTON". PVP 9600337.
The following were developed by Arnel Hallauer, Iowa State University, Department of Agronomy, Ames, Iowa 50011, United States; Kendall R. Lamkey, USDA-ARS, Iowa State University, 1555 Agronomy, Ames, Iowa 50011, United States. Received 08/26/1996.

PI 595605. Phaseolus vulgaris L. 
Cultivar. "WINCHESTER". PVP 9600338.

PI 595606. Zea mays L. ssp. mays 
Breeding. Population. BS11(MER)C5. GP-329. Pedigree - Developed by five cycles of modified ear-to-row selection. 17% higher yielding than BS11C0. Grain moisture 5%, root lodging 55%, stalk lodging 47%, plant height 2%, ear height 7%, and growing degrees to silk emergence 3%, were all reduced in comparison to BS11C0.

PI 595607. Zea mays L. ssp. mays 
Breeding. Population. BS11(FS)C5. GP-330. Pedigree - Developed by five cycles of intrapopulation full-sib selection. 4% higher yielding than BS11C0. Grain moisture 6%, root lodging 72%, stalk lodging 54%, plant height 13%, ear height 24%, and growing degrees to silk emergence 5%, were all reduced in comparison to BS11C0.

PI 595608. Zea mays L. ssp. mays 
Breeding. Population. BS11(HI)C5. GP-331. Pedigree - Developed by five cycles of half-sib selection using inbred tester B79. 5% higher yielding than BS11C0. Grain moisture 3%, root lodging 84%, stalk lodging 45%, plant height 9%, ear height 16%, and growing degrees to silk emergence 5%, were all reduced in comparison to BS11C0.

PI 595609. Zea mays L. ssp. mays 
Breeding. Population. BS11(S2)C5. GP-332. Pedigree - Developed by five cycles of S2 recurrent selection. 19% higher yielding than BS11C0. Grain moisture 5%, root lodging 59%, stalk lodging 41%, plant height 7%, ear height 13%, and growing degrees to silk emergence 7%, were all reduced in comparison to BS11C0.

PI 595610. Zea mays L. ssp. mays 
Breeding. Population. BS11(30-S1)C5. GP-333. Pedigree - Developed by five cycles of S1 recurrent selection. 12% higher yielding than BS11C0. Grain moisture 5%, root lodging 51%, stalk lodging 23%, plant height 7%, ear height 13%, and growing degrees to silk emergence 5%, were all reduced in comparison to BS11C0.

PI 595611. Zea mays L. ssp. mays 
Breeding. Population. BS11(S1)C5; BS11(20-S1)C5. GP-334. Pedigree - Developed by five cycles of S1 recurrent selection. Very desirable agronomics. 11% higher yielding than BS11C0. Grain moisture 7%, root lodging 90%, stalk lodging 54%, plant height 15%, ear height 25%, and growing degrees to silk emergence 8%, were all reduced in comparison to BS11C0.

PI 595612. Zea mays L. ssp. mays 
Breeding. Population. BS11(10-S1)C5. GP-335. Pedigree - Developed by
five cycles of S1 recurrent selection. In comparison with BS11CO, increased grain yield 12%, lower grain moisture at harvest 9%, increased resistance to stalk lodging 31%, and earlier silk emergence 3%.

PI 595613. Zea mays L. ssp. mays
Breeding. Population. BS11(5-S1)C5. GP-336. Pedigree - Developed by five cycles of S1 recurrent selection. 16% lower yielding and grain moisture 1% greater than BS11CO. Root lodging 48%, stalk lodging 12%, plant height 6%, ear height 15%, and growing degrees to silk emergence 3%, were all reduced in comparison to BS11CO.

The following were developed by Garst Seed Company, United States. Received 08/16/1996.

PI 595614. Zea mays L. ssp. mays
Cultivar. "ZS01131". PVP 9600269.

PI 595615. Zea mays L. ssp. mays
Cultivar. "ZS01228". PVP 9600270.

PI 595616. Zea mays L. ssp. mays
Cultivar. "ZS01250". PVP 9600271.

PI 595617. Zea mays L. ssp. mays
Cultivar. "ZS01279". PVP 9600272.

PI 595618. Zea mays L. ssp. mays
Cultivar. "ZS01459". PVP 9600273.

The following were developed by AgraTech Seeds Inc. Received 08/02/1996.

PI 595619. Arachis hypogaea L.
Cultivar. "AT 108". PVP 9600322.

The following were developed by Progeny Advanced Genetics, Inc., Salinas, California, United States. Received 08/05/1996.

PI 595620. Lactuca sativa L.
Cultivar. "KING HENRY". PVP 9600323.

The following were developed by SEEDCO Corporation. Received 08/05/1996.

PI 595621. Gossypium hirsutum L.
Cultivar. "9148". PVP 9600324.

The following were developed by Hartz Seed Company, United States. Received 08/06/1996.

PI 595622. Glycine max (L.) Merr.
Cultivar. "H616". PVP 9600325.
The following were developed by DEKALB Genetics Corporation, United States. Received 08/05/1996.

PI 595623. Zea mays L. ssp. mays
Cultivar. "PHEI4SR". PVP 9600326.

PI 595624. Zea mays L. ssp. mays
Cultivar. "83IBI3SR". PVP 9600327.

PI 595625. Zea mays L. ssp. mays
Cultivar. "91BMA2SR". PVP 9600328.

The following were developed by University of Maryland, College Park, Maryland, United States. Received 08/08/1996.

PI 595626. Glycine max (L.) Merr.
Cultivar. "Wicomico". PVP 9600329.

The following were developed by Seed Research of Oregon, Inc., Oregon, United States. Received 08/19/1996.

PI 595627. Lolium perenne L.
Cultivar. "SR 4400". PVP 9600339.

The following were developed by Seed Research of Oregon, Inc., Oregon, United States. Received 08/19/1996.

PI 595628. Lolium perenne L.
Cultivar. "ACADEMY". PVP 9600340.

The following were developed by USDA, NRCS, Aberdeen Plant Materials Center, Aberdeen, Idaho, United States. Received 08/20/1996.

PI 595629. Elymus lanceolatus (Scribner & J. G. Smith) Gould ssp. lanceolatus
Cultivar. "BANNOCK". PVP 9600341.

The following were developed by Jenks Seed Connection, United States. Received 08/22/1996.

PI 595630. Festuca arundinacea Schreber
Cultivar. "JUBILEE". PVP 9600343.

PI 595631. Festuca arundinacea Schreber
Cultivar. "MORGAN". PVP 9600344.
07/30/1996.

**PI 595632. Festuca arundinacea** Schreber
Cultivar. "EMPERESS". PVP 9600345.

The following were developed by Olsen-Fennell Seeds, Inc., United States. Received 08/16/1996.

**PI 595633. Festuca arundinacea** Schreber
Cultivar. "PYRAMID". PVP 9600346.

The following were developed by New Mexico State University, Agricultural Experiment Station, Las Cruces, New Mexico 88003, United States. Received 08/27/1996.

**PI 595634. Allium cepa** L.
Cultivar. "NUMEX CENTRIC". PVP 9600347.

**PI 595635. Allium cepa** L.
Cultivar. "NUMEX CRISPY". PVP 9600348.

**PI 595636. Allium cepa** L.
Cultivar. "NUMEX DULCE". PVP 9600349.

**PI 595637. Allium cepa** L.
Cultivar. "NUMEX LUNA". PVP 9600350.

**PI 595638. Allium cepa** L.
Cultivar. "NUMEX MESA". PVP 9600351.

**PI 595639. Allium cepa** L.
Cultivar. "NUMEX VADO". PVP 9600352.

The following were developed by Northrup King Company, United States. Received 08/23/1996.

**PI 595640. Glycine max** (L.) Merr.
Cultivar. "S 48-14". PVP 9600353.

**PI 595641. Glycine max** (L.) Merr.
Cultivar. "S 51-00". PVP 9600354.

**PI 595642. Glycine max** (L.) Merr.

**PI 595643. Glycine max** (L.) Merr.

**PI 595644. Glycine max** (L.) Merr.
The following were developed by Gina Rowan, University of Georgia, Miller Plant Science Building Rm. 3111, Athens, Georgia 30602, United States; Dan Phillips, University of Georgia, Department of Plant Pathology, Georgia Experiment Station, Experiment, Georgia 30223, United States; Richard S. Hussey, University of Georgia, College of Agric. and Envirn. Sciences, Department of Plant Pathology, Athens, Georgia 30602-7274, United States; H. Roger Boerma, University of Georgia, Department of Crop & Soil Science, 3111 Plant Sciences Building, Athens, Georgia 30602-7272, United States; E. Dale Wood, University of Georgia, Dept. of Crop & Soil Sciences, Athens, Georgia 30602, United States; S.L. Finnerty, University of Georgia, Dept. of Plant Pathology, Athens, Georgia 30602, United States. Received 08/27/1996.

PI 595645. Glycine max (L.) Merr. Cultivar. Pureline. "Benning"; G88-3266. CV-367; PVP 9600358. Pedigree - Hutcheson x Coker 6738. Maturity group VII (relative maturity 1.8). Growth habit determinate. Flowers purple, tawny pubescence, and tan pod walls. Seeds yellow with shiny seed coat and brown hila of varying intensity. Resistant to southern biotype of stem canker (Diaporthe phaseolorum) and bacterial pustule (Xanthomonas campestris pv. glycines). Resistance to southern (Meloidogyne incognita), peanut (M. arenaria), and javanese (M. javanese) root-knot nematodes. Moderately resistant to prevalent races of frogeye leaf spot (Cercospora sojina) and is resistant to Race 3 of soybean cyst nematode (Heterodera glycines).

The following were developed by John M. Clarke, Agriculture and Agri-Food Canada, Semiarid Prairie Agricultural Res. Centre, Box 1030, Swift Current, Saskatchewan S9H 3X2, Canada. Received 08/30/1996.


PI 595652. Triticum durum Desf.


PI 595657. *Triticum durum* Desf.


The following were developed by B. Glaz, USDA, ARS, Sugarcane Field Station, Canal Point, Florida 33438, United States; P.Y.P. Tai, USDA-ARS, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States; Christopher W. Deren, University of Florida, Institute of Food and Agriculture, EREC Box 8003, Belle Glade, Florida 33430, United States; Jimmie D. Miller, USDA, ARS, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States; J.M. Shine, Jr., Florida Sugar Cane League, Inc., Clewiston, Florida 33440, United States; Jack C. Comstock, USDA-ARS, Sugarcane Field Station, Star Route Box 8, Canal Point, Florida 33438, United States. Received 09/05/1996.

PI 595672. *Saccharum hybrid* Cultivar. "CP 88-1762". CV-105. Pedigree - Polycross with CP 80-1743 as the female parent. Equalled sugar production of checks on organic soils and slightly higher on sand soils. Resistance for commercial production in Florida to sugarcane mosaic virus, leaf scald (Xanthomonas albilineans), eye spot (Bipolaris sacchari), smut (Ustilago scitaminea), rust (Puccinia melanocephala), and ratoon stunting disease (Clavibacter xyli subsp. xyli). Fiber content 11.48% compared to 10.37% for CP 70-1133 and 10.04% for CP 72-1210.

PI 595673. *Saccharum hybrid* Cultivar. "CP 88-1508". CV-106. Pedigree - CP 81-1238 / CP 78-1610. On organic soils, slightly higher sucrose content and cane yield than best check. On sand soils, sucrose content slightly less but cane yield significantly greater than check. Resistance for commercial production in Florida to sugarcane mosaic virus, leaf scald (Xanthomonas albilineans), eye spot (Bipolaris sacchari), smut (Ustilago scitaminea), rust (Puccinia melanocephala), and ratoon stunting disease (Clavibacter xyli subsp. xyli). Some susceptibility to dry top rot (Ligniera
vasculorum). Fiber content 10.64% compared to 10.37% for CP 70-1133 and 10.04% for CP 72-1210.

The following were developed by Sakata Seed Corporation, Japan. Received 09/04/1996.

**PI 595674. Brassica oleracea** L.  
Cultivar. "SA-5". Pedigree - Male parent of Triathlon (PI 591572).

The following were developed by University of Georgia Research Foundation, Inc., Georgia, United States. Received 08/29/1996.

**PI 595675. Triticum aestivum** L., nom. cons.  
Cultivar. "522W". PVP 9600359.

The following were developed by Resource Seeds, Inc., United States. Received 08/30/1996.

**PI 595676. X Triticosecale sp.**  
Cultivar. "498". PVP 9600361.

The following were developed by Pure-Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon 97032, United States. Received 09/03/1996.

**PI 595677. Lolium perenne** L.  
Cultivar. "MANHATTAN III". PVP 9600362.

The following were developed by Ohio Agricultural Research & Development Center, Ohio, United States. Received 09/04/1996.

**PI 595678. Triticum aestivum** L., nom. cons.  
Cultivar. "HOPEWELL". PVP 9600363. Soft red winter wheat.

The following were developed by Pure Seed Testing, Inc., United States; Melodee L. Fraser, Pure Seed Testing, Inc., 606 N. Main Street, P.O. Box 176, Rolesville, North Carolina 27571, United States. Received 02/28/1997.

**PI 595679. Festuca arundinacea** Schreber  
Cultivar. Population. "TAR HEEL"; PST-R5DNB; PST-R5DR. PVP 9600364. Pedigree - Selected from progenies of five clones selected from a tall fescue screening program. Medium-maturing, dark green, low-growing, tall fescue capable of producing dense turf. Good winter color and early spring green-up in NC. Excellent heat tolerance and high tolerance to brown patch disease. Moderate tolerance to stem rust. Susceptible to gray leaf spot (Pyricularia grisea).

The following were developed by Terral Seed, Inc.. Received 09/03/1996.
Cultivar. "TERRAL TV8825". PVP 9600365. Soft red winter wheat.

The following were developed by Willamette Valley Plant Breeders, Inc., United States. Received 09/03/1996.

PI 595681. *Trifolium pratense* L.
Cultivar. "REDGOLD". PVP 9600366.

The following were developed by Agriprogress Inc., Canada. Received 09/04/1996.

PI 595682. *Pisum sativum* L.
Cultivar. "PROFI". PVP 9600367.

The following were developed by Pioneer Hi-Bred International, Inc., United States. Received 08/30/1996.

Cultivar. "9243". PVP 9600368.

Cultivar. "9306". PVP 9600369.

Cultivar. "9333". PVP 9600370.

Cultivar. "9344". PVP 9600371.

PI 595687. *Glycine max* (L.) Merr.
Cultivar. "9363". PVP 9600372.

Cultivar. "9364". PVP 9600373.

Cultivar. "9421". PVP 9600374.

PI 595690. *Glycine max* (L.) Merr.
Cultivar. "9482". PVP 9600375.

Cultivar. "9552". PVP 9600376.

PI 595692. *Glycine max* (L.) Merr.
Cultivar. "9594". PVP 9600377.

Cultivar. "9631". PVP 9600378.

PI 595694. *Glycine max* (L.) Merr.
Cultivar. "9671". PVP 9600379.


The following were developed by Gary C. Peterson, Texas A&M University, Agricultural Res. & Extension Center, Route 3, Box 219, Lubbock, Texas 79401-7957, United States; Pablo Madera-Torres, USDA/ARS, Tropical Agriculture Research Station, P. O. Box 70, Mayaguez, Puerto Rico; Jeff Dahlberg, USDA, ARS, Tropical Agric. Research Station, P.O. Box 70, Mayaguez, Puerto Rico; Fred R. Miller, Texas A & M University, Department of Soil & Crop Science, College Station, Texas 77843-2474, United States; Darrell T. Rosenow, Texas Agricultural Exp. Stn., Route 3, Box 219, Farm and Market Road 1294, Lubbock, Texas 79401-9757, United States; Antonio Sotomayor-Rios, USDA, ARS, National Germplasm Repository, Tropical Agric. Research Station, Mayaguez, Puerto Rico; L.E. Clark, Texas Agr. Exp. Sta., P.O. Box 1658, Vernon, Texas 76384-1658, United States; A. Quiles-Belen, USDA, ARS, Tropical Agricultural Research Station, Box 70, Mayaguez, Puerto Rico; A. J. Hamburger, Tropical Agricultural Experiment Station, 11708 Hwy. 70 South, Vernon, Texas 76385-1658, United States; C. A. Woodfin, Tropical Agricultural Experiment Station, Route 3, Box 219, Lubbock, Texas 79401-9757, United States. Received 02/21/1996.


PI 595701. Sorghum bicolor (L.) Moench Breeding. Pureline. IS 2377C; SC 821; PI 229835 (preconverted); P3730; Q2/5/38. GP-407. Pedigree - Photoperiod insensitive conversion of IS 2377 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in A1 cytoplasm and found to be a maintainer line. A unique Kafir (race)-Cafforum
PI 595702. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 2837C; SC 672; PI 267495 (preconverted); MN 4592; Hoarkdoom 19/59. GP-408. Pedigree - Photoperiod insensitive conversion of IS 2837 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in Al cytoplasm and found to be a maintainer line. A unique Kafir-caudatum (race)-Caffrorum-feterita (Working Group 27).

PI 595703. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 4308C; SC 1101; NSL 87138 (preconverted); Jhawa. GP-409. Pedigree - Photoperiod insensitive conversion of IS 4308 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in Al cytoplasm and found to be a partial maintainer line. A unique Durra (race)-Nandyal (Working Group 46(1)).

PI 595704. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 4540C; SC 830; NSL 54779 (preconverted); Bedri Jalgaon. GP-410. Pedigree - Photoperiod insensitive conversion of IS 4540 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in Al cytoplasm and found to be a partial restorer line. A unique Durra (race)-Durra (Working Group 41).

PI 595705. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 4870C; SC 1089; NSL 55476 (preconverted); Himmatpur S.K.. GP-411. Pedigree - Photoperiod insensitive conversion of IS 4870 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in Al cytoplasm and found to be a maintainer line. Midge resistance. A unique Durra (race)-Durra (Working Group 41).

PI 595706. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 4902C; NSL 55485 (preconverted); Piscari Wadibyruk; SC 876. GP-412. Pedigree - Photoperiod insensitive conversion of IS 4902 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in Al cytoplasm and found to be a restorer line. Possible high breeding value. A unique Durra (race)-Durra (Working Group 41).

PI 595707. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 5792C; SC 891; NSL 55048 (preconverted); Ranipur. GP-413. Pedigree - Photoperiod insensitive conversion of IS 5792 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in Al cytoplasm and found to be a maintainer line. Possible high breeding value. A unique Durra (race)-Durra (Working Group 41).

PI 595708. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 6026C; SC 841; NSL 102170 (preconverted); Ghalal. GP-414. Pedigree - Photoperiod insensitive conversion of IS 6026 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in Al cytoplasm
and found to be a maintainer line. A unique Durra (race)-Durra (Working Group 41).

PI 595709. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 6991C; SC 800; PI 571000 (preconverted); 360 Tarama; NSL 54549. GP-415. Pedigree - Photoperiod insensitive conversion of IS 6991 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in A1 cytoplasm and found to be a restorer line. Possible high breeding value. A unique Caudatum (race)-Zerazera (Working Group 39(1)).

PI 595710. *Sorghum bicolor* (L.) Moench

PI 595711. *Sorghum bicolor* (L.) Moench

PI 595712. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 7528C; SC 349; NSL 51969 (preconverted); KO 49. GP-418. Pedigree - Photoperiod insensitive conversion of IS 7528 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in A1 cytoplasm and found to be a restorer line. A unique Caudatum (race)-Caudatum (Working Group 33).

PI 595713. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 8104C; SC 1222; NSL 54490 (preconverted); A-100. GP-419. Pedigree - Photoperiod insensitive conversion of IS 8104 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Midge resistance. A unique Caudatum (race)-Zerazera (Working Group 39(1)).

PI 595714. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 9290C; SC 1079; PI 571042 (preconverted); Gadam El Hamam; NSL 76303. GP-420. Pedigree - Photoperiod insensitive conversion of IS 9290 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in A1 cytoplasm and found to be a restorer line. A unique Caudatum (race)-Caudatum (Working Group 33).

PI 595715. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 9738C; SC 1261; PI 571151 (preconverted); Otago; NSL 76690. GP-421. Pedigree - Photoperiod insensitive conversion of IS 9738 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. A unique Caudatum (race)-Zerazera (Working
PI 595716. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 9784C; SC 1262; PI 571191 (preconverted); Safra White Nile. GP-422. Pedigree - Photoperiod insensitive conversion of IS 9784 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. A unique Caudatum (race)-Zerazera (Working Group 39(1)).

PI 595717. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 9796C; SC 1263; PI 571201 (preconverted); UT24. GP-423. Pedigree - Photoperiod insensitive conversion of IS 9796 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. A unique Caudatum (race)-Zerazera (Working Group 39(1)).

PI 595718. *Sorghum bicolor* (L.) Moench

PI 595719. *Sorghum bicolor* (L.) Moench

PI 595720. *Sorghum bicolor* (L.) Moench

PI 595721. *Sorghum bicolor* (L.) Moench

PI 595722. *Sorghum bicolor* (L.) Moench

PI 595723. *Sorghum bicolor* (L.) Moench

PI 595724. Sorghum bicolor (L.) Moench

PI 595725. Sorghum bicolor (L.) Moench

PI 595726. Sorghum bicolor (L.) Moench
Breeding. Pureline. IS 12595C; SC 86; PI 154868 (preconverted); MN 1524; Miamba No. 693. GP-432. Pedigree - Photoperiod insensitive conversion of IS 12595 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in A1 cytoplasm and found to be a maintainer line. Diversity and eliteness. A unique Durra-caudatum (race)-Durra-nigricans (Working Group 47).

PI 595727. Sorghum bicolor (L.) Moench
Breeding. Pureline. IS 12652C; SC 161; PI 155329 (preconverted); MN 1562; Mubya. GP-433. Pedigree - Photoperiod insensitive conversion of IS 12652 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in A1 cytoplasm and found to be a maintainer line. Diversity and eliteness. A unique Guinea (race)-Conspicuum (Working Group 3).

PI 595728. Sorghum bicolor (L.) Moench
Breeding. Pureline. IS 12652C; SC 161; PI 276823 (preconverted); SA 2341; Unnamed-R3; 87. GP-434. Pedigree - Photoperiod insensitive conversion of IS 12652 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in A1 cytoplasm and found to be a restorer line. Diversity and eliteness. A unique Durra-caudatum (race)-Durra-nigricans-subglabrescens (Working Group 47-50).

PI 595729. Sorghum bicolor (L.) Moench
PI 595730. *Sorghum bicolor* (L.) Moench

PI 595731. *Sorghum bicolor* (L.) Moench

PI 595732. *Sorghum bicolor* (L.) Moench

PI 595733. *Sorghum bicolor* (L.) Moench

PI 595734. *Sorghum bicolor* (L.) Moench

PI 595735. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 23573C; SC 1313; PAB89; Ganga. GP-441. Pedigree - Photoperiod insensitive conversion of IS 23573 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. A unique Caudatum (race)-Zerazera (Working Group 39(1)).

PI 595736. *Sorghum bicolor* (L.) Moench

PI 595737. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 23590C; SC 1316; PAB112; Atwol. GP-443. Pedigree - Photoperiod insensitive conversion of IS 23590 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. A unique Caudatum (race)-Zerazera (Working Group 39(1)).

PI 595738. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. IS 23595C; SC 1317; PAB117; Ganga. GP-444. Pedigree - Photoperiod insensitive conversion of IS 23595 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. A unique
Caudatum (race)-Zerazera (Working Group 39(1)).

PI 595739. Sorghum bicolor (L.) Moench

PI 595740. Sorghum bicolor (L.) Moench
Breeding. Pureline. SC 1057C; SC 1057; PI 154844 (preconverted); MN 1500; Grassl; Iwera #669. GP-446. Pedigree - Photoperiod insensitive conversion of SC 1057 selected from the World Sorghum Collection. Early maturing, combine-height enhanced. Tested for fertility reactions in A1 cytoplasm and found to be a restorer line. Downy mildew resistance. A unique Caudatum (race)-Caudatum-nigricans (Working Group 39).

PI 595741. Sorghum bicolor (L.) Moench

PI 595742. Sorghum bicolor (L.) Moench

PI 595743. Sorghum bicolor (L.) Moench

PI 595744. Sorghum bicolor (L.) Moench

PI 595745. Sorghum bicolor (L.) Moench
PI 595746. *Sorghum bicolor* (L.) Moench
Breeding. Pureline. SC 1287C; SC 1287; M62522. GP-452. Pedigree - Photoperiod insensitive conversion of SC 1287 selected from ICRISAT. Early maturing, combine-height enhanced. A unique Caudatum (race)-Zerazera (Working Group 39(1)).

PI 595747. *Sorghum bicolor* (L.) Moench

PI 595748. *Sorghum bicolor* (L.) Moench

The following were developed by Robert T. Lewellen, USDA, ARS, U.S. Agricultural Research Station, 1639 E. Alisal St., Salinas, California 93905, United States. Received 09/20/1996.

PI 595749. *Beta vulgaris* L.
Breeding. Population. C890-6; 6818M. Pedigree - BC2 F2[C790mmaa *2 x (C37 x R05)]. Segregates for resistance to rhizomania (BNYVV), resistance source an Italian sugarbeet R05. Segregates for monogerm, O-type, and hypocotyl color.

PI 595750. *Beta vulgaris* L.
Breeding. Population. C890-7; 6817M. Pedigree - BC2 F2[C790mmaa *2 x (Rima-CMS x C37)]. Segregates for resistance to rhizomania (BNYVV), resistance source an Italian cutivar 'Rima'. Segregates for monogerm, O-type, and hypocotyl color.

PI 595751. *Beta vulgaris* L.
Breeding. Population. C890-10; 6820M. Pedigree - BC2 F2[C790mmaa *2 x (C37 x WB169)]. Segregates for resistance to rhizomania (BNYVV), resistance source a Beta maritima, accession WB169, from Italy. Segregates for monogerm, O-type, and hypocotyl color.

PI 595752. *Beta vulgaris* L.
Breeding. Population. C890-11; 6821M. Pedigree - BC2 F2[C790mmaa *2 x (C37 x WB258)]. Segregates for resistance to rhizomania (BNYVV), resistance source a Beta maritima, accession WB258, from Italy. Segregates for monogerm, O-type, and hypocotyl color.

The following were developed by J.E. Specht, Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915, United States; G.L. Graef, University of Nebraska, Dept. of Agronomy, Lincoln, Nebraska 68583-0915, United States; L.L. Korte, Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915, United States; D.M. White, Nebraska Agr. Exp. Sta., University of Nebraska, Lincoln, Nebraska 68583-0915, United States. Received 09/24/1996.
PI 595753. Glycine max (L.) Merr.  
Late maturity group III. Flowers purple, pubescence gray, pods tan, seeds yellow with intermediate luster and buff hila. Growth habit indeterminate. Plant height 86cm, moderately bushy canopy. Good lodging resistance. Average seed weight 16.1 g/100 seed, 36% protein, and 19% oil on 13% moisture basis. Good resistance to Sudden Death Syndrome, heterogeneous for resistance to Phytophthora root rot. No specific resistance to brown stem rot or soybean cyst nematode.

PI 595754. Glycine max (L.) Merr.  
Late maturity group III. Flowers white, pubescence gray, pods tan, seeds dull yellow with buff hila. Growth habit indeterminate. Plant height 86cm, moderately bushy canopy. Good lodging resistance. Average seed weight 16.6 g/100 seeds, 36% protein, and 19% oil on 13% moisture basis. Good resistance to Sudden Death Syndrome. Susceptible to phytophthora root rot, brown stem rot, and soybean cyst nematode.

The following were donated by Glenn W. Burton, USDA, ARS, Forage & Turf Research, Georgia Coastal Plain Experiment Station, Tifton, Georgia 31793, United States. Received 1978.

PI 595755. Pennisetum glaucum (L.) R. Br.  

The following were donated by USDA, NRCS, California Agr. Exp. Station, California, United States. Received 1961.

PI 595756. Vicia villosa ssp. varia (Host) Corbiere  
Cultivar. "LANA"; P-13910. CV-1.

The following were developed by Milton E. McDaniel, Texas A&M University, Dept. of Soil & Crops Sciences, College Station, Texas 77843, United States; Mark D. Lazar, Texas A&M University, 6500 Amarillo Boulevard, West, Amarillo, Texas 79106-1796, United States; N.A. Tuleen, Texas Agr. Exp. Sta., Texas A&M University, College Station, Texas 77843, United States; W.D. Worrall, Texas A&M University Agric. Res. & Ext. Ctr., P.O. Box 1658, Vernon, Texas 76385, United States; David S. Marshall, Texas A&M University, Research & Extension Center, 17360 Coit Road, Dallas, Texas 75252-6599, United States; Lloyd R. Nelson, Texas Agricultural Experiment Station, The Texas A&M University System, Agricultural Research and Extension Center, Overton, Texas 75684-0290, United States; Kenneth B. Porter, Texas A&M University, Texas A&M University Agric. Res. & Ext. Ctr., 6500 Amarillo Blvd. West, Amarillo, Texas 79106, United States; L.W. Rooney, Texas A&M University, Texas A&M University Agric. Res. & Ext. Ctr., 17360 Coit Road, Dallas, Texas 75252, United States;
Cultivar. Pureline. "TAM 110". CV-851. Pedigree - (TAM 105*4/Amigo)*5/Largo. Semidwarf hard red winter wheat with brown chaff. Similar to TAM 107, but resistant to biotypes 'E' and 'I' greenbug (Schizaphus graminum). Milling and baking quality acceptable in all testing and often superior to TAM 107.

The following were developed by Peggy Thaxton, Texas A&M University, Texas A&M University, Dept. of Soil and Crop Science, College Station, Texas 77843, United States; Kamal M. El-Zik, Texas A&M University, Department of Soil & Crop Sciences, College Station, Texas 77843, United States. Received 10/15/1996.

PI 595758. *Gossypium hirsutum* L.
Breeding. Pureline. CABCHUS-2-86. GP-656. Pedigree - CABCS-1-81 x CAHUS-1-81. A reselection from previously released line CABCHUS-1-84. Glanded, normal leaf, normal bract, nectaried, glabrous, early maturing, with B2B3B7 genes for bacterial blight resistance (Xanthomonas campestris pv. malvacearum). Yield potential higher than Tamcots CAMD-E and CAB-CS, and similar yield to Tamcot CD3H and Tamcot HQ95. Lint percentage higher and fiber quality traits equal to or better than other released Tamcot cultivars. Fiber strength averages 26.5 g/tex and micronaire 4.2 units. Resistance levels to pests equal to other Tamcot cultivars with higher seed-seedling disease resistance (Pythium ultimum and Rhizoctonia solani).

PI 595759. *Gossypium hirsutum* L.
Breeding. Pureline. BLLCABS-3-86. GP-657. Pedigree - BLLEBOS-1-83 x CABCS-1-81. Glanded, normal leaf, normal bract, nectaried, glabrous, early maturing, with B2B3B7 genes for bacterial blight resistance (Xanthomonas campestris pv. malvacearum). Mean gin turnout 30.4% and mean lint percentage 37.2%. Fiber length averages 1.12 inches. Yield equal to Tamcot CAB-CS. Above-average resistance to seedling disease (Pythium ultimum and Rhizoctonia solani), Phymatotrichum root rot (Phymatotrichum omnivorum), and fusarium wilt/root-knot nematode complex (Fusarium oxysporum f. sp. vasinfectum/Meloidogyne incognita) than other MAR-5 lines.

PI 595760. *Gossypium hirsutum* L.
Breeding. Pureline. LBBCABCHUS-1-87. GP-658. Pedigree - LBBCHUS-1-85 x CAHUGS-1-84. Glanded, normal leaf, normal bract, nectaried, glabrous, early maturing, with B2B3B7 genes for resistance to bacterial blight (Xanthomonas campestris pv. malvacearum). Average fiber strength 24.5 g/tex and fiber length 1.09 inches. Resistance to pests equal to previously released MAR germplasm with above-average resistance to fusarium wilt/root-knot nematode complex (Fusarium oxysporum f. sp. vasinfectum/Meloidogyne incognita).

PI 595761. *Gossypium hirsutum* L.
Breeding. Pureline. LBBCHU2GS-1-87. GP-659. Pedigree - LBBCHUS-1-85 x CAHUGS-1-84. Glanded, normal leaf, normal bract, nectaried, glabrous,
early maturing, with B2B3B7 genes for resistance to bacterial blight (Xanthomonas campestris pv. malvacearum). Higher level of resistance to fusarium wilt/root-knot nematode complex (Fusarium oxysporum f. sp. vasinfectum/Meloidogyne incognita) than other lines. Fiber length averages 1.12 inches, significantly longer than previously released Tamcot cultivars, except Tamcot HQ95.

PI 595762. Gossypium hirsutum L.
Breeding. Pureline. C5HUG2BES-2-87. GP-660. Pedigree - C4HUGBES-1-84 x CAHUGS-1-84. Glanded, normal leaf, normal bract, nectaried, glabrous, early maturing, with B2B3B7 genes for resistance to bacterial blight (Xanthomonas campestris pv. malvacearum). Fiber quality similar to Tamcot HQ95. Fiber length averages 1.10 inches, strength 25.0 g/tex, and micronaire 3.7. Higher resistance to verticillium wilt than other MAR-5 lines.

PI 595763. Gossypium hirsutum L.
Breeding. Pureline. CDP37HPIH-1-1-86. GP-661. Pedigree - Tamcot CD3H X Pora Inta from Argentina. Glanded, normal leaf, normal bract, nectaried, pubescent, with B2B3B6B7 genes for resistance to bacterial blight (Xanthomonas campestris pv. malvacearum). Lint percentage averages 37.8% and gin turnout 29.2%. Average fiber strength 25.9 g/tex. High yield potential similar to Tamcot HQ95. Higher levels of resistance to verticillium wilt (Verticillium dahliae), fusarium wilt/root-knot nematode complex (Fusarium oxysporum f. sp. vasinfectum/Meloidogyne incognita), and phymatotrichum root rot (Phymatotrichum omnivorum) than other MAR-5 lines.

PI 595764. Gossypium hirsutum L.

The following were developed by S.C. Anand, University of Missouri, Delta Center, P.O. Box 160, Portageville, Missouri 63873, United States. Received 10/16/1996.

PI 595765. Glycine max (L.) Merr.
Pedigree - Hutcheson x S81-2524. Mid-maturity group V with determinate growth habit. Flowers white, pubescence tawny, and pods tan. Resistant to Race 3 and moderately resistant to Race 14 of soybean cyst nematode, Heterodera glycines. Moderately resistant to root-knot nematode, Meloidogyne incognita, but susceptible to Meloidogyne arenaria. Seed protein 410 kg-1, oil 211g kg-1, seedcoat dull yellow, and hila brown.

The following were collected by James Mac Stewart, University of Arkansas, Agronomy Department, Fayetteville, Arkansas 72701, United States. Donated by F. Douglas Wilson, USDA, ARS, Western Cotton Research Laboratory, 4135 East Broadway Road, Phoenix, Arizona 85040, United States. Received 11/30/1996.
PI 595766. Hibiscus reflexus Craven & F. D. Wilson, nom. invalidum
Wild. JMS-17; A82-1264; 263. Collected 09/03/1981 in Western Australia, Australia. 4 km NNE of Truscott Air Base (abandoned) on inlet from Van Sittart Bay. Sandstone area near heath. Flower pink, petal spot red. 2 m high. Seeds angular, scaly brown.

The following were collected by P.A. Fryxell, Agricultural Experiment Station, State College, New Mexico, United States; L. Craven, CSIRO, Division of Plant Industry, General Post Office Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Donated by F. Douglas Wilson, USDA, ARS, Western Cotton Research Laboratory, 4135 East Broadway Road, Phoenix, Arizona 85040, United States. Received 11/30/1996.

PI 595767. Hibiscus aphelus Craven & F. D. Wilson, nom. invalidum
Wild. 133; A84-1343; 268. Collected 05/08/1983 in Western Australia, Australia. Middle Spring, 18 km NW of Kununura (by air).

The following were collected by L. Craven, CSIRO, Division of Plant Industry, General Post Office Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; J.A. Wightman. Donated by F. Douglas Wilson, USDA, ARS, Western Cotton Research Laboratory, 4135 East Broadway Road, Phoenix, Arizona 85040, United States. Received 11/30/1996.

PI 595768. Hibiscus fallax Craven & F. D. Wilson, nom. invalidum
Wild. 1323; A84-1370; 273. Collected 03/25/1984 in Northern Territory, Australia. Latitude 12 deg. 19' 0'' S. Longitude 132 deg. 52' 0'' E. Arnhem Land, gorge between Twin Falls and Jim Jim Falls.

The following were collected by V.J. Neldner; J. R. Clarkson. Donated by F. Douglas Wilson, USDA, ARS, Western Cotton Research Laboratory, 4135 East Broadway Road, Phoenix, Arizona 85040, United States. Received 11/30/1996.

PI 595769. Hibiscus saponarius Craven
Wild. 8107; A94-1424; 274. Collected 06/03/1989 in Queensland, Australia. Cook District. 4.2 km E of King River on the Edward River to Musgrave road. Eucalyptus tetrodonta, E. hylandii woodland on white sand with a grassy ground layer.

The following were collected by Menkhorst. Donated by F. Douglas Wilson, USDA, ARS, Western Cotton Research Laboratory, 4135 East Broadway Road, Phoenix, Arizona 85040, United States. Received 11/30/1996.

PI 595770. Hibiscus squarrosus Craven & F. D. Wilson, nom. invalidum
Wild. 765; A94-1425; 275. Collected 11/18/1989 in Western Australia, Australia. Osmond Valley Station.

The following were collected by A. Slee; L. Craven, CSIRO, Division of Plant Industry, General Post Office Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Donated by F. Douglas Wilson, USDA, ARS, Western Cotton Research Laboratory, 4135 East Broadway Road, Phoenix, Arizona 85040, United States. Received 11/30/1996.
PI 595771. **Hibiscus aneutha** Craven & F. D. Wilson, nom. invalidum
Wild. 3085; A94-1426; 276. Collected 05/02/1990 in Northern Territory, Australia. Kakadu National Park, 0.5 km N of Jim Jim Campground.

The following were collected by Q. Jones, USDA-ARS, Plant Industry Station, New Crops Research Branch, Crops Research Division, Beltsville, Maryland 20705-2350, United States. Donated by F. Douglas Wilson, USDA, ARS, Western Cotton Research Laboratory, 4135 East Broadway Road, Phoenix, Arizona 85040, United States. Received 11/30/1996.

PI 595772. **Hibiscus diversifolius** Jacq.

The following were developed by P. Stephen Baenziger, University of Nebraska, Department of Agronomy, 330 Keim Hall, Lincoln, Nebraska 68583-0915, United States. Received 11/15/1996.

PI 595773. **Triticum aestivum** L., nom. cons.
Breeding. Pureline. NE86501; NSGC 6137. Pedigree - Colt/Cody. Taller wheat, similar in height to Cody and Centura, with moderately strong straw. Susceptible to leaf rust, soilborne mosaic virus, and wheat streak mosaic virus. Resistant to stem rust (contains genes Sr6, Sr17, and Sr24); and moderately resistant to Hessian fly. Maturity medium.

The following were collected by John Bamberg, USDA, ARS, Potato Introduction Station, Peninsula Experiment Station, Sturgeon Bay, Wisconsin 54235, United States. Received 09/25/1996.

PI 595774. **Solanum fendleri** A. Gray
Wild. BAM 41. Collected 08/16/1996 in New Mexico, United States. Elevation 2375 m. Grant Co. Near Truth or Consequences. W of junction of Rt 25 and 152 to Iron Creek campground. Near the banks of the creek right at both sides of the entrance. Same site as BAM 26. Shade among rocks and grass under trees along the creek. Plants flowering and up to 24 inches tall. Collected 4 natural fruit.

PI 595775. **Solanum jamesii** Torrey
Wild. BAM 42. Collected 08/16/1996 in New Mexico, United States. Elevation 2508 m. Sierra Co. Near Truth or Consequences. Emory Pass lookout W of Hillsboro on Rt 152 W from Rt 25. At 30 and 210 degree compass within 100 ft of the parking lot. Growing in moist gravelly soil. Plants small (<6") with no berries and few flowers. Collected plants.

PI 595776. **Solanum fendleri** A. Gray
Wild. BAM 43. Collected 08/16/1996 in New Mexico, United States.

PI 595777. Solanum jamesii Torrey

PI 595778. Solanum jamesii Torrey

PI 595779. Solanum fendleri A. Gray
Wild. BAM 46. Collected 08/18/1996 in Texas, United States. Elevation 1550 m. Jeff Davis Co. Near Ft. Davis. On Rt 118 between McDonald Observatory an Madera Canyon (L.E. Wood Picnic area). At 2.4 miles S of Madera Canyon where creek crosses the road (flood gauge). Just off SW side of road. Growing among grass and large (2-3 ft) boulders in moist leaf mulch. One group of 5-6 plants in leaf mulch in crotch of tree about 2 ft. above ground. Many plants large to 20" with flowers but no fruit. Some looked stressed (dry?), grazed (rabbits?), chewed by insects and mites. Collected plants.

PI 595780. Solanum jamesii Torrey

PI 595781. Solanum fendleri A. Gray
Wild. BAM 48. Collected 08/18/1996 in Texas, United States. Elevation 1550 m. Jeff Davis Co. Near Ft. Davis. On 118 at Madera Canyon (L.E. Wood picnic area). Along canyon edge of park near the fenceline. Growing in shade under Ponderosas and full sun in grass among rocks near fence along canyon edge. Many large plants (to 30"), abundant flowering and many mature and immature fruit. Collected plants, 70 fruit, and bee observed to be working flowers on these plants.

PI 595782. Solanum jamesii Torrey
Wild. BAM 49. Collected 08/19/1996 in Texas, United States. Elevation 1900 m. Culberson Co. In Guadalupe National Park. Around capsites and picnic area along creek just S of ranger station. In shade around picnic tables and campsites and among grass along W creek banks. In moist dark
humus soil. Abundant. Typically small (<4") but to 12". Rarely flowering. Collected plants.

PI 595783. Solanum jamesii Torrey

PI 595784. Solanum jamesii Torrey
Wild. BAM 51. Collected 08/20/1996 in New Mexico, United States. Elevation 2098 m. San Miguel Co. Near Santa Fe at Pecos. About 1 mile N of Pecos on 63 at Lisboa Springs Fish Hatchery. In ditch on N side of hatchery entrance and across Rt 63. Growing in shade under trees in ditch and under junipers in needle mulch. This is in a moist canyon with alpine vegetation (e.g. Ponderosas) nearby. Very abundant. Mostly small plants to 9" looking very green and robust. No flowering. Collected plants.

The following were collected by Alfonso Del Rio, University of Wisconsin, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706, United States; John Bamberg, USDA, ARS, Potato Introduction Station, Peninsula Experiment Station, Sturgeon Bay, Wisconsin 54235, United States; Max W. Martin, University of Wisconsin, Potato Introduction Station, 4312 Hwy 42, Sturgeon Bay, Wisconsin 54235, United States. Received 09/25/1996.

PI 595785. Solanum jamesii Torrey

PI 595786. Solanum jamesii Torrey

PI 595787. Solanum jamesii Torrey
Wild. BDM 54. Collected 09/21/1996 in Utah, United States. Latitude 37 deg. 42' N. Longitude 109 deg. 40' W. Elevation 1620 m. San Juan Co. Near Blanding. About 9 miles SW of Blanding on Rt 95, then 5 miles N on S Cottonwood Rd, then 4.9 miles up Allen Canyon. Dark sandy soil under cottonwood leaf mulch, in sage stand, less than 50 feet from creek, under large cottonwood trees. In semi-circle of limestone cliffs about 80 feet high. About 200 plants in a 50 foot radius. Plants 2 to 10
inches high, a few flowering. Apparently all tuberlings. Collected 24 tubers and 17 plants.

**PI 595788. Solanum jamesii** Torrey  
Wild. BDM 55. Collected 09/22/1996 in New Mexico, United States.  
Latitude 35 deg. 56' N. Longitude 107 deg. 6' W. Elevation 1950 m.  
Sandoval Co. Between Torreon and Cuba on Rt 197. At 0.7 miles W of powerline, just over 11 miles W of Cuba. Growing in sandy soil under low hanging juniper branches, below outcrop of large round boulders. Plants mostly old, some completely brown. Tubers mature, apparently tuberlings. Plants 4 inches to 1 foot and yellowing, no flowers or fruit. Collected 3 plants and 18 tubers.

The following were developed by Darrell M. Wesenberg, USDA, ARS, National Small Grains Germplasm, Research Facility, Aberdeen, Idaho 83210, United States; Idaho Agric. Exp. Station, Aberdeen, Idaho, United States. Received 10/07/1996.

**PI 595789. Hordeum vulgare** L. **ssp. vulgare**  

The following were developed by Sakata Seed Corporation, Japan. Received 05/10/1996.

**PI 595790. Brassica oleracea** L.  

**PI 595791. Brassica oleracea** L.  

The following were collected by R. Pullen, CSIRO, Division of Plant Industry, Plant Introd. and Seed Exchange Unit, Canberra City, Austr. Capital Terr., Australia; J. Grant, CSIRO, Canberra, Austr. Capital Terr., Australia. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

**PI 595792. Glycine argyrea** Tind.  
Wild. 0513; G 1621; IL 1296; CANB454340. Collected 07/01/1983 in Queensland, Australia. Latitude 25 deg. 55' 0'' S. Longitude 153 deg. 6' 0'' E. Elevation 5 m. 1 km south of Rainbow Beach Village. Chromosome number I.

**PI 595793. Glycine argyrea** Tind.  
Wild. 0529; G 1632; IL 1297. Collected 07/03/1983 in Queensland, Australia. Latitude 25 deg. 57' 0'' S. Longitude 153 deg. 6' 0'' E. Elevation 80 m. 4 km south of Rainbow Beach on road to Freshwater. Chromosome number I.

**PI 595794. Glycine argyrea** Tind.  
Wild. G 1679; IL 1298; CANB454312. Collected 07/01/1983 in Queensland,
Australia. Latitude 25° 57' 0'' S. Longitude 153° 6' 0'' E. Elevation 80 m. 4 km south of Rainbow Beach, SW of Cooloola sand hills. Chromosome number I.

**PI 595795. Glycine argyrea** Tind.
Wild. 0779; G 2000; ID#11108; CANB355558; IL 1299. Collected 12/17/1984 in Queensland, Australia. Latitude 25 deg. 58' 0'' S. Longitude 153 deg. 9' 0'' E. Elevation 120 m. Double Island Point Road, 2 km south of Rainbow Beach, near Noosa Head. Chromosome number I.

**PI 595796. Glycine argyrea** Tind.
Wild. 0757+; G 2004; ID#11100+; CANB355550; IL 1302. Collected 12/16/1984 in Queensland, Australia. Latitude 26 deg. 9' 0'' E. Elevation 160 m. Freshwater Ranger Station, along Rainbow Beach Road, near Noosa Head. Chromosome number I.

**PI 595797. Glycine argyrea** Tind.
Wild. 0780+; G 2005; IL 1303. Collected 12/17/1984 in Queensland, Australia. Latitude 25 deg. 54' 0'' S. Longitude 153 deg. 6' 0'' E. Elevation 120 m. Rainbow Beach, track between Mikado Motel and Carlo Sandblow, near Noosa Head. Chromosome number I.

**PI 595798. Glycine argyrea** Tind.
Wild. 0745; G 2010; ID#11097; CANB355553; IL 1304. Collected 12/15/1984 in Queensland, Australia. Latitude 25 deg. 58' 0'' S. Longitude 153 deg. 10' 0'' E. Elevation 120 m. 4 km SSW of Double Island Point, 50 m north of walking track, near Noosa Head. Chromosome number I.

The following were collected by G. Cunningham; P. Milthorpe. Donated by T.E. Carter, USDA, ARS, North Carolina State University, 3127 Ligon Street Box 7631, Raleigh, North Carolina 27695-7631, United States; Jim M. Anderson, North Carolina State Univ., Crop Science Department, Raleigh, North Carolina 27650, United States. Received 09/20/1996.

**PI 595799. Glycine canescens** F. J. Herm.
Wild. G 1302; IL 1290; NC 601.18; CANB263751; MpRf457742. Collected 05/01/1977 in New South Wales, Australia. Latitude 32 deg. 18' 0'' S. Longitude 146 deg. 34' 0'' E. Elevation 350 m. 113.6 km north of Condobolin, between Bobadah and Nymagee. Chromosome number I.

**PI 595800. Glycine canescens** F. J. Herm.
Wild. G 1351; IL 1291; NC 601.20; CANB339310; MpRf619331. Collected 05/01/1977 in New South Wales, Australia. Latitude 29 deg. 37' 0'' S. Longitude 143 deg. 4' 0'' E. Elevation 97 m. "Urella Downs", property 100 km east of Milparinka. Chromosome number I.

The following were collected by William J. Kenworthy, University of Maryland, Department of Agronomy, H.J. Patterson Hall, College Park, Maryland 20742, United States; A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; J. Grace, CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; M.J. Doyle, CSIRO, Canberra, Austr. Capital Terr., Australia. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box
Wild. GBDK 625/1-4; G 2141; IL 0954. Collected 08/09/1985 in Queensland, Australia. Latitude 26 deg. 21' 0'' S. Longitude 150 deg. 5' 0'' E. Elevation 350 m. Juandah Creek, Giligulal. Chromosome number I.

The following were collected by William J. Kenworthy, University of Maryland, Department of Agronomy, H.J. Patterson Hall, College Park, Maryland 20742, United States; J. Grace, CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; M.J. Doyle, CSIRO, Canberra, Austr. Capital Terr., Australia. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

Wild. GBDK 638/9; G 2145; IL 0958. Collected 08/11/1985 in Queensland, Australia. Latitude 24 deg. 59' 0'' S. Longitude 148 deg. 23' 0'' E. Elevation 300 m. Ingelara, 13.6 km west of Wyseby. Chromosome number I.

The following were collected by William J. Kenworthy, University of Maryland, Department of Agronomy, H.J. Patterson Hall, College Park, Maryland 20742, United States; A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; J. Grace, CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; M.J. Doyle, CSIRO, Canberra, Austr. Capital Terr., Australia. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

Wild. GBDK 685/1,2; G 2154; IL 0967. Collected 08/16/1985 in Queensland, Australia. Latitude 24 deg. 50' 0'' S. Longitude 146 deg. 16' 0'' E. Elevation 450 m. Tambo Airport, 7 km Northeast of Tambo. Chromosome number I.

The following were collected by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; J. Grace, CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; J. Grant, CSIRO, Canberra, Austr. Capital Terr., Australia. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

Wild. GGB 911; G 2364; IL 0997. Collected 10/25/1985 in South Australia, Australia. Latitude 31 deg. 18' 0'' S. Longitude 138 deg. 41' 0'' E. Elevation 430 m. Enorama Creek, 7.5 km north of Oraprania National Park Headquarters. Chromosome number I.

Wild. GGB 912; G 2365; IL 0998. Collected 10/26/1985 in South Australia, Australia. Latitude 31 deg. 7' 0'' S. Longitude 138 deg. 41' 0'' E.
Elevation 550 m. Butlers Creek, 3.3 km south of Blinman. Chromosome number I.

PI 595806. Glycine clandestina Wendl.
Wild. GBG 913; G 2366; IL 0999. Collected 10/26/1985 in South Australia, Australia. Latitude 31 deg. 4' 0'' S. Longitude 138 deg. 37' 0'' E. Elevation 55 m. Glass's Gorge, 6.2 km northwest of Blinman, 50 m above the road. Chromosome number I.

PI 595807. Glycine clandestina Wendl.
Wild. GBG 914; G 2367; IL 1000. Collected 10/26/1985 in South Australia, Australia. Latitude 31 deg. 6' 0'' S. Longitude 137 deg. 50' 0'' E. Elevation 500 m. Erengunda Creek, 21 km east of Blinman. Chromosome number 040.

PI 595808. Glycine clandestina Wendl.
Wild. GBG 915; G 2368; IL 1001. Collected 10/26/1985 in South Australia, Australia. Latitude 30 deg. 58' 0'' S. Longitude 138 deg. 14' 0'' E. Elevation 350 m. Chambers Gorge, 73 km east of Blinman. Chromosome number I.

PI 595809. Glycine clandestina Wendl.
Wild. GBG 924; G 2376; IL 1009. Collected 10/28/1985 in South Australia, Australia. Latitude 31 deg. 21' 0'' S. Longitude 138 deg. 33' 0'' E. Elevation 300 m. Brachina gorge, 34 km southeast of Parachilna. Chromosome number I.

PI 595810. Glycine clandestina Wendl.
Wild. GBG 926; G 2378; IL 1011. Collected 10/28/1985 in South Australia, Australia. Latitude 31 deg. 26' 0'' S. Longitude 138 deg. 38' 0'' E. Elevation 550 m. Cadbury Springs, 20 km west of Wilpena Headquarters. Chromosome number I.

PI 595811. Glycine clandestina Wendl.
Wild. GBG 927; G 2379; IL 1012. Collected 10/28/1985 in South Australia, Australia. Latitude 31 deg. 33' 0'' S. Longitude 138 deg. 35' 0'' E. Elevation 650 m. Wilpena Pond, path 5 to lookout at pond. Chromosome number I.

PI 595812. Glycine clandestina Wendl.
Wild. GBG 929; G 2381; IL 1014. Collected 10/29/1985 in South Australia, Australia. Latitude 32 deg. 28' 0'' S. Longitude 138 deg. 55' 0'' E. Elevation 200 m. Saltia Creek, 19.9 km east of Port Augusta. Chromosome number I.

PI 595813. Glycine clandestina Wendl.
Wild. GBG 941; G 2391; IL 1024. Collected 10/31/1985 in South Australia, Australia. Latitude 33 deg. 42' 0'' S. Longitude 138 deg. 6' 0'' E. Elevation 200 m. Telowie Gorge, 10 km east of Port Gremein. Chromosome number I.

The following were collected by P. Broue, CSIRO, Division of Plant Industry, Section of Genetic Resources, Canberra City, Austr. Capital Terr., Australia; Theodore Hymowitz, University Illinois, Department of Crop Sciences, Urbana.
Illinois 61801, United States. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

**PI 595814. Glycine cyrtoloba** Tind. Wild. 0219; G 1276; IL 1310. Collected 02/17/1977 in Queensland, Australia. Latitude 20 deg. 49' 0" S. Longitude 149 deg. 17' 0" E. Elevation 35 m. Brampton Island on Circuit Path to Turtle Bay. Chromosome number I.

The following were collected by R. Pullen, CSIRO, Division of Plant Industry, Plant Introd. and Seed Exchange Unit, Canberra City, Austr. Capital Terr., Australia. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.


The following were collected by William J. Kenworthy, University of Maryland, Department of Agronomy, H.J. Patterson Hall, College Park, Maryland 20742, United States; A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; J. Grace, CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; M.J. Doyle, CSIRO, Canberra, Austr. Capital Terr., Australia. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

**PI 595816. Glycine falcata** Benth. Wild. GBDK 661; G 2082; IL 1038. Collected 08/14/1985 in Queensland, Australia. Latitude 23 deg. 5' 0" S. Longitude 148 deg. 1' 0" E. Elevation 200 m. Capella Creek, 1 km north of Capella. Chromosome number 040.

**PI 595817. Glycine falcata** Benth. Wild. GBDK 681; G 2087; IL 1041. Collected 08/16/1985 in Queensland, Australia. Latitude 24 deg. 26' 0" S. Longitude 145 deg. 27' 0" E. Elevation 270 m. Blackall Airport, 3.2 km southwest of Blackall. Chromosome number 040.

The following were collected by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; J. Grace, CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; Theodore Hymowitz, University Illinois, Department of Crop Sciences, Urbana, Illinois 61801, United States. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

**PI 595818. Glycine pindanica** Tind. & Craven Wild. 01348; G 2951; IL 1285; CANB 464082; ref#279756; id#0893.
Collected 09/26/1993 in Western Australia, Australia. Latitude 17 deg. 29' 0'' S. Longitude 122 deg. 27' 0'' E. Elevation 200 m. 61.6 km north of Broome PO towards Beagle Bay. Chromosome number I.

The following were collected by J. Grace, CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; R. Heriot. Donated by T.E. Carter, USDA, ARS, North Carolina State University, 3127 Ligon Street Box 7631, Raleigh, North Carolina 27695-7631, United States; Jim M. Anderson, North Carolina State Univ., Crop Science Department, Raleigh, North Carolina 27650, United States. Received 09/20/1996.

PI 595819. Glycine tabacina (Labill.) Benth. Wild. G 1298; IL 1289; NC 601.17. Collected 03/02/1977 in New South Wales, Australia. Latitude 33 deg. 34' 0'' S. Longitude 148 deg. 38' 0'' E. Elevation 274 m. 4.8 km from Canowindra to Eugowra on stock route. Chromosome number I.

The following were collected by J. Grace, CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Donated by T.E. Carter, USDA, ARS, North Carolina State University, 3127 Ligon Street Box 7631, Raleigh, North Carolina 27695-7631, United States; Jim M. Anderson, North Carolina State Univ., Crop Science Department, Raleigh, North Carolina 27650, United States. Received 09/20/1996.

PI 595820. Glycine tabacina (Labill.) Benth. Wild. G 1159; IL 1292; NC 301.13; ID# 045. Collected 04/11/1976 in New South Wales, Australia. Latitude 33 deg. 27' 0'' S. Longitude 152 deg. 55' 0'' E. Elevation 20 m. Port Macquarie, road to Marineland, on cliff face. Chromosome number (080).

The following were collected by P. Milthorpe. Donated by T.E. Carter, USDA, ARS, North Carolina State University, 3127 Ligon Street Box 7631, Raleigh, North Carolina 27695-7631, United States; Jim M. Anderson, North Carolina State Univ., Crop Science Department, Raleigh, North Carolina 27650, United States. Received 09/20/1996.


The following were collected by P.G. Harrison, Department of Primary Production, Darwin, Northern Territory, Australia. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

PI 595822. Glycine tomentella Hayata Wild. G 2349; IL 0945. Collected 06/24/1984 in Northern Territory, Australia. Latitude 15 deg. 39' 0'' S. Longitude 130 deg. 29' 0'' E. Elevation 100 m. Timber Creek. Chromosome number I.
The following were donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

PI 595823. Glycine tomentella Hayata
Wild. G 2437; IL 0946; BGCH 0335. Collected 06/30/1984 in Western Australia, Australia. Latitude 16 deg. 31' 0" S. Longitude 126 deg. 21' 0" E. Elevation 280 m. Hann River Campsite. Chromosome number I.

The following were collected by William J. Kenworthy, University of Maryland, Department of Agronomy, H.J. Patterson Hall, College Park, Maryland 20742, United States; A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; J. Grace, CSIRO, Division of Plant Industry, GPO Box 1600, Canberra, Austr. Capital Terr. 2601, Australia; M.J. Doyle, CSIRO, Canberra, Austr. Capital Terr., Australia. Donated by A.D.H. Brown, CSIRO, Division of Plant Industry, G.P.O. Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 09/20/1996.

PI 595824. Glycine tomentella Hayata
Wild. GBDK 648/1,3; G 2313; IL 1200. Collected 08/12/1985 in Queensland, Australia. Latitude 24 deg. 38' 0" S. Longitude 148 deg. 20' 0" E. Elevation 213 m. Sandy Creek, 40 km west of Rolleston. Chromosome number I.

The following were developed by Garst Seed Company, United States. Received 09/13/1996.

PI 595825. Zea mays L. ssp. mays
Cultivar. "ZS01539". PVP 9600274.

The following were developed by Pioneer Hi-Bred International, Inc., United States. Received 08/30/1996.

PI 595826. Glycine max (L.) Merr.
Cultivar. "9245". PVP 9600384.

PI 595827. Glycine max (L.) Merr.
Cultivar. "9511". PVP 9600385.

PI 595828. Glycine max (L.) Merr.
Cultivar. "9282". PVP 9600386.

PI 595829. Glycine max (L.) Merr.
Cultivar. "9234". PVP 9600387.

PI 595830. Glycine max (L.) Merr.
Cultivar. "9294". PVP 9600388.

PI 595831. Glycine max (L.) Merr.
Cultivar. "9395". PVP 9600389.
The following were developed by Progeny Advanced Genetics, Inc., Salinas, California, United States. Received 09/11/1996.

PI 595832. *Lactuca sativa* L.
Cultivar. "CAESAR". PVP 9600390.

The following were developed by Regents of the University of Minnesota, Minnesota, United States. Received 09/16/1996.

PI 595833. *Poa annua* L.
Cultivar. "MN42". PVP 9600392.

PI 595834. *Poa annua* L.
Cultivar. "MN117". PVP 9600393.

PI 595835. *Poa annua* L.
Cultivar. "MN184". PVP 9600394.

PI 595836. *Poa annua* L.
Cultivar. "MN208". PVP 9600395.

PI 595837. *Poa annua* L.
Cultivar. "MN234". PVP 9600396.

The following were developed by Hollar Seeds, Inc., United States. Received 09/19/1996.

PI 595838. *Cucurbita pepo* L.
Cultivar. "SAFFRON PROLIFIC STRAIGHTNECK". PVP 9600397.

The following were developed by Seminis Vegetable Seeds, Inc., United States. Received 09/19/1996.

PI 595839. *Lactuca sativa* L.
Cultivar. "CORDOBA". PVP 9600398.

PI 595840. *Lactuca sativa* L.
Cultivar. "SEVILLE". PVP 9600399.

PI 595841. *Lactuca sativa* L.
Cultivar. "VENICE". PVP 9600400.

The following were developed by Terral Seed, Inc. Received 09/23/1996.

Cultivar. "TERRAL TV8555". PVP 9600402.

The following were developed by R.L. Cooper, USDA-ARS, Ohio State University,
PI 595843. Glycine max (L.) Merr. 
Cultivar. Pureline. "Flint". CV-362; PVP 9600408. Pedigree - GR8836 x Elgin 87. Maturity group II, growth indeterminate. Flowers purple, pubescence tawny, pods brown. Seeds dull yellow, hila black, mean content of 41.1% protein and 20.6% oil, size 16 mg seed-1. Excellent tolerance to Phytophthora root rot and carries Rpsl-k allele which confers multi race resistance to Phytophthora sojae. Moderately susceptible to brown stem rot and susceptible to soybean cyst nematode.

The following were developed by Holden's Foundation Seeds, Inc, United States. Received 10/02/1996.

PI 595844. Zea mays L. ssp. mays
Cultivar. "LH179". PVP 9700002.

PI 595845. Zea mays L. ssp. mays
Cultivar. "LH236". PVP 9700003.

PI 595846. Zea mays L. ssp. mays
Cultivar. "LH281". PVP 9700004.

PI 595847. Zea mays L. ssp. mays
Cultivar. "LH290". PVP 9700005.

The following were developed by Mark E. Sorrells, Cornell University, Dept. of Plant Breeding & Biometry, 252 Emerson Hall, Ithaca, New York 14853-1902, United States. Received 10/10/1996.

PI 595848. Triticum aestivum L., nom. cons.

The following were developed by C.F. Konzak, Washington State University,
PI 595849. Triticum turgidum L.
Cultivar. "MEMDU". PVP 9700008.

The following were developed by F.M. Bourland, University of Arkansas, Dept. of Agronomy, PTSC 115, Fayetteville, Arkansas 72701, United States; Phil Tugwell, University of Arkansas, Entomology Department, Agriculture Building, Fayetteville, Arkansas 72701, United States; R.E. McGowen, Jr., University of Arkansas, Dept. of Agronomy and Plant Sci., Bldg. 115, Fayetteville, Arkansas 72701, United States. Received 10/18/1996.

PI 595850. Gossypium hirsutum L.
Compared to DES 119, higher yields, similar maturity and lint fraction, but less favorable fiber quality. Leaves and stems glabrous. High resistance to tarnished plant bug, Lygus lineolaris. As resistant as DES 119 to bollworm (Helicoverpa zea) and tobacco budworm (Heliothis virescens) complex. Resistant to all U.S. races of Xanthomonas campestris pv. malvacearum, and as resistant as the resistant check to fusarium wilt (Fusarium oxysporum f. sp. vasinfectum).

The following were developed by F.M. Bourland, University of Arkansas, Dept. of Agronomy, PTSC 115, Fayetteville, Arkansas 72701, United States; R.E. McGowen, Jr., University of Arkansas, Dept. of Agronomy and Plant Sci., Bldg. 115, Fayetteville, Arkansas 72701, United States; J.T. Johnson, University of Arkansas, Dept. of Agronomy and Plant Sci., Bldg. 115, Fayetteville, Arkansas 72701, United States. Received 10/18/1996.

PI 595851. Gossypium hirsutum L.
Compared to DES 119, slightly earlier maturing, similar lint fraction and micronaire, and superior fiber length and strength. Leaf pubescence similar to Stoneville 132 and less hirsute than DES 119. Best adapted to silty loam soils of northern Mississippi River delta. As resistant as DES 119 to tarnished plant bug, Lygus lineolaris, bollworm (Helicoverpa zea), and tobacco budworm (Heliothis virescens) complex. Resistant to all U.S. races of Xanthomonas campestris pv. malvacearum, and as resistant as the resistant check to fusarium wilt (Fusarium oxysporum f. sp. vasinfectum).

PI 595852. Gossypium hirsutum L.
Similar to DES 119 in yield, maturity, lint fraction, and micronaire, but inferior in fiber length, strength, and elongation. Leaf pubescence similar to Stoneville 132 and less hirsute than DES 119. As resistant as DES 119 to tarnished plant bug, Lygus lineolaris. Resistant to all U.S. races of Xanthomonas campestris pv. malvacearum, and as resistant as the resistant check to fusarium wilt (Fusarium oxysporum f.sp. vasinfectum).

PI 595853. Gossypium hirsutum L.
Breeding. Pureline. ARKOT 8506. GP-666. Pedigree - Miscot 7803-52 /Miscot T8-27. Compared to DES 119, earlier maturing with similar fiber properties and pubescence, but yielded slightly less with lower lint fraction. As resistant as DES 119 to tarnished plant bug, Lygus lineolaris. Resistant to all U.S. races of Xanthomonas campestris pv. malvacearum, as resistant as the resistant check to fusarium wilt (Fusarium oxysporum f.sp. vasinfectum).

PI 595854. Gossypium hirsutum L.
Breeding. Pureline. ARKOT 8514. GP-667. Pedigree - Miscot 7801 / Miscot T8-27. Similar to DES 119 in maturity, lint fraction, fiber length, and leaf pubescence, but slightly lower yield, finer micronaire, and lower fiber strength and elongation. Resistant as DES 119 to tarnished plant bug, Lygus lineolaris, bollworm (Helicoverpa zea), and tobacco budworm (Heliothis virescens) complex. Resistant to all U.S. races of Xanthomonas campestris pv. malvacearum, and as resistant as the resistant check to fusarium wilt (Fusarium oxysporum f.sp. vasinfectum).

The following were donated by Universidad De San Carlos De Guatemala, Cindad Universitaria, Guatemala. Received 03/27/1984.

PI 595855. Ipomoea sp.
Cultivar. 143; C 13739; Q 24514; CAMOTE MORADO.

PI 595856. Ipomoea sp.
Cultivar. 441; C 13739; Q 24520; CAMOTE REMOLACHA.

PI 595857. Ipomoea sp.
Cultivar. 443; C 13739; Q 24521; CAMOTE AMARILLO.

PI 595858. Ipomoea sp.
Cultivar. Franja B; C 13739; Q 24534; CAMOTE BLANCO.

The following were donated by James W. Moyer, North Carolina State University, Department of Plant Pathology. Box 7616, Raleigh, North Carolina 27695-7616, United States. Received 01/07/1985.

PI 595859. Ipomoea batatas (L.) Lam. var. batatas
Uncertain. 406; Q 25346.

PI 595860. Ipomoea batatas (L.) Lam. var. batatas
Uncertain. 407; Q 25347.

PI 595861. Ipomoea batatas (L.) Lam. var. batatas
Uncertain. 512; Q 25348.

The following were donated by F. Martin, USDA-ARS, Tropical Research Station, P.O. Box 70, Mayaguez, Puerto Rico. Received 04/27/1987.

PI 595862. Ipomoea batatas (L.) Lam. var. batatas
Cultivar. "DUNE"; SPV-73; BE-1227; Q 26770. Exceptional clone, white fleshed, not sweet, very dry, very large roots of industrial potential,
starch, feed. Potential as an early variety (10 weeks).

The following were donated by Dan Austin, Florida Atlantic University, Department of Biological Services, Boca Raton, Florida 33431, United States. Received 10/26/1987.

PI 595863. Ipomoea batatas (L.) Lam. var. batatas Cultivar. "CUBA 6"; BE-1532; Q 26992. Collected in Cuba.


The following were donated by Francisco Vazquez, USDA, ARS, Tropical Agric. Research Station, Box 70, Mayaguez, Puerto Rico. Received 08/08/1988.

PI 595866. Ipomoea batatas (L.) Lam. var. batatas Uncertain. SPV-52; BE-1925; C21043; Q 27222.

PI 595867. Ipomoea batatas (L.) Lam. var. batatas Uncertain. SPV-95; BE-1925; C21043; Q 27227.

The following were donated by K. Komaki, Department of Upland Farming, Kyushu National Agric. Experiment Sta., 6644 Yokoichi-cho, Miyakonojo, Miyazaki, Japan. Received 11/15/1989.

PI 595868. Ipomoea batatas (L.) Lam. var. batatas Cultivar. "BENIHAYATO"; Q 27837.

The following were donated by Gvh Jackson, South Pacific Commision, Plant Protection Service, Private Mail Bag, Suva, Fiji. Received 06/13/1991.

PI 595869. Ipomoea batatas (L.) Lam. var. batatas Cultivar. "HONIARA"; Q 28457. Scab resistant.

The following were donated by Peter Beetham, ACIAR Sweet Potato Project, Burnley Gardens, Swan Street, Burnley, Australia. Received 10/07/1991.


The following were donated by Australian Department of Agriculture, Institute of Plant Sciences, Burnley Gardens, Swan Street, Burnley, Australia. Received 02/09/1993.

PI 595871. Ipomoea batatas (L.) Lam. var. batatas
The following were donated by International Potato Center, Apartado 5969, Lima, Lima, Peru. Received 08/10/1994.

PI 595872. *Ipomoea batatas* (L.) Lam. var. *batatas*
Uncertain. IPS 153; BE-4494; Q 29652.

PI 595873. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "Xushu 18"; CIP 440025; BE-7184; Q 35192.

PI 595874. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "Huarmeyano"; CIP 420020; 4843 USA; RCB IN-262; BE-7445; Q 35646.

PI 595875. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "Zapallo"; CIP 420027; 4849 USA; DLP 1914; BE-7445; Q 35649.

PI 595876. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "IITA-TIB 10"; CIP 440032; 4832 USA; TIB 10; BE-7445; Q 35650.

PI 595877. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "Rusenya-BDI"; CIP 440033; 7008 USA; BE-7445; Q 35651.

PI 595878. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "Mogamba"; CIP 440034; 4864 USA; MOHC; BE-7445; Q 35652.

PI 595879. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "LUBY 3074"; CIP 440036; 4800 USA; Luby; BE-7445; Q 35653.

PI 595880. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "IMBY 3102"; CIP 440037; 4801 USA; IMBY; BE-7445; Q 35654.

PI 595881. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "IITA-TIS 1487"; CIP 440059; 4835 USA; TIS 1487; BE-7445; Q 35655.

PI 595882. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "IITA-TIS 2544"; CIP 440063; 4805 USA; TIS 2544; BE-7445; Q 35656.

PI 595883. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "IITA-TIS 3290"; CIP 440067; 4807 USA; TIS 3290; BE-7445; Q 35657.

PI 595884. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "IITA-TIS 9162"; CIP 440100; 4874 USA; TIS 9162; BE-7445; Q 35659.

PI 595885. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "IITA-TIS 9232"; 4875 USA; CIP 440101; TIS 9232; BE-7445; Q 35660.

PI 595886. *Ipomoea batatas* (L.) Lam. var. *batatas*
PI 595887. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "Tanzania"; CIP 440166; 5114 USA; BE-7445; Q 35665.

PI 595888. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "Wagabolige"; CIP 440167; 5031 USA; BE-7445; Q 35666.

PI 595889. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "No. 29"; CIP 440168; 5032 USA; N 29; BE-7445; Q 35667.

PI 595890. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "KEMB 10"; CIP 440169; 7029 USA; BE-7445; Q 35668.

PI 595891. *Ipomoea batatas* (L.) Lam. var. *batatas*
Cultivar. "KEMB 37"; CIP 440170; 7031 USA; BE-7445; Q 35669.

The following were developed by Jim Beaver, University of Puerto Rico, Mayaguez Camp, Department of Agronomy & Soils, P. O. Box 5000, Mayaguez, Puerto Rico; Juan C. Rosas, Esuela Agricola Panamericana, El Zamorano, P.O. Box 93, Tegucigalpa, Honduras; O.I. Varela, Escuela Agricola Panamericana, Dept. of Agronomy, Zamorano, Tegucigalpa, Honduras. Received 11/01/1996.

PI 595892. *Phaseolus vulgaris* L.
Cultivar. Pureline. "TIO CANELA-75". CV-139. Pedigree - Dor483//Dor391/Pompadour J. Small red bean (race Mesoamerica), early maturity, indeterminate bush, short vine type II growth habit. Well adapted to low to intermediate (<1200 m) altitude bean production regions of Honduras. Resistant to Bean Golden Mosaic virus and heat tolerant. Seeds ovoid, shiny red, 22 g/100 seeds.

The following were developed by Norman L. Taylor, University of Kentucky, Department of Agronomy, N-122 Agric. Sci. Bldg. -N, Lexington, Kentucky 40546-0019, United States. Received 10/25/1996.

PI 595893. *Trifolium pratense* L.
Genetic. L38-1784. GS-11. Pedigree - Developed by crossing in isolation 10 plants of each genetic marker: white flower-white seed, crimson flower, no mark leaflet, white stem, sun-red stem, cornucopia leaflet, multiple leaflet (1); rudimentary corolla, long stem, multiple cotyledon (2); split leaflet (3) and long petiole (4). A pool of gene markers for the development of multiple recessive gene marker stocks and other unique combinations useful for genetic investigations.

The following were developed by Ken F. Grafton, North Dakota State University, Plant Sciences Department, P.O. Box 5051 SU Station, Fargo, North Dakota 58105-5051, United States; K.C. Chang, North Dakota State University, Dept. of Food and Nutrition, Gargo, North Dakota 58105, United States; J.R. Venette, North Dakota State University, Dept. of Plant Pathology, Fargo, North Dakota 58105, United States; NDSU Research Foundation, North Dakota, United States. Received 10/24/1996.
PI 595894. Phaseolus vulgaris L.
Cultivar. Pureline. "MAVERICK". CV-142; PVP 9700082. Pedigree - PX-087 (Fiesta/Black Magic/83B229)/87-049-01 (C081-12034/T295). Adapted to Northern Great Plains Bean Production Region. High yielding. Medium-early maturity (92-95 d after planting) and semi-prostrate (CIAT Type IIIa) indeterminate growth habit. Flowers white. Resistant to prevalent races of Bean Rust (Uromyces appendiculatus) in North Dakota. Susceptible to all strains of Bean Common Mosaic Virus. Reaction to White Mold (Sclerotinia sclerotiorum) similar to other commercial pinto cultivars. Canning quality very good.

The following were developed by K. W. May, Agriculture Canada, Lethbridge Research Station, P.O. Box 3000, Main, Lethbridge, Alberta T1J 4B1, Canada. Received 10/30/1996.

PI 595895. Hordeum vulgare L. ssp. vulgare

The following were developed by Melvin Adams, USDA, NRCS, East Texas Plant Materials Center, P.O. Box 13000, Nacogdoches, Texas 75961, United States. Received 07/22/1996.

PI 595896. Tripsacum dactyloides (L.) L.
Wild. 9043740. Apomictic tetraploid. Average foliage height 147cm and average width 88.0cm. Plant height approx. 2.5m, seed maturity in late June. In clipping studies yielded 16,678 DM lbs./ac. using 45 day clipping interval and 250 lbs. N/ac. DM yield increased to 21,883 lbs./ac. using 60 day clipping interval and 250 lbs. N/ac. Protein 9.3% for 45 day clipping and 7.5% for 60 day interval using 250 lbs. N/ac. Original seed source collected in Jackson Co., Texas.

PI 595897. Tripsacum dactyloides (L.) L.
Wild. 9043762. Apomictic tetraploid. Average foliage height 137cm, width 111.0cm. Plant height approx. 2m, seed maturity in late June. In clipping studies yielded 15,794 DM lbs./ac. using 45 day clipping interval and 250 lbs. N/ac. DM yield 20,079 lbs./ac. using 60 day clipping interval and 250 lbs. N/ac. Protein 9.33% for 45 day clipping interval and 7.55% for 60 day interval for same N rates. Original seed source collected in Medina Co., Texas.

PI 595898. Tripsacum dactyloides (L.) L.
Wild. 9043629. Apomictic tetraploid. Average foliage height 119.0cm and width 108.0cm. Plant height approx. 2m, seed maturity in June. In clipping studies yielded 14,778 DM lbs./ac. using 45 day clipping interval at 250 lbs. N/ac. DM yield increased to 17,957 lbs./ac. using 60 day clipping interval at 250 lbs. N/ac. Protein 10.71% for 45 day clipping interval and 8.09% for 60 day clipping interval using 250 lbs. N/ac. Original seed source collected in Nacogdoches Co., Texas.
PI 595899. *Elymus elymoides* (Raf.) Swezey
Breeding. Population. Acc:1118; SAND HOLLOW; T-45219; Ab-1609; EE-25.
Collected in Idaho, United States. Elevation 830 m. Gem County (township 6N, range 1W, section 21). Lolalita loamy coarse sand, slope 35% W facing. Avg. ann. precip. 279 mm. Assoc. species: beardless wheat grass (*Pseudoroegneria spicata* ssp. *inermis*), sandberg bluegrass (*Poa secunda*), and hawksbeard (*Crepis acuminata*). Pedigree - No intentional selection has been practiced on original collection. Adapted on sandy soils throughout Snake River Plain in SW Idaho and in adjacent regions to the S and W in Idaho, Oregon, and Nevada. Intended for restoration and reclamation in this region.

The following were developed by Anna McClung, USDA, ARS, Rice Research Station, Route 7, Box 999, Beaumont, Texas 77713, United States. Received 11/01/1996.

PI 595900. *Oryza sativa* L.
Cultivar. Pureline. "DIXIEBELLE"; RU9003092. Pedigree - (Newrex/Bellemont)RU8303181/CB801. Long-grain rice with superior processing quality, an important trait to parboiling, canning, and related industries. Semidwarf plant type, early maturing similar to Lemont. Resistant to lodging. Main crop, ratoon yields, and milling yields similar with current leading U.S. long-grain cultivars. Amylose content 2-3% higher and amylographic viscosity significantly higher than conventional U.S. long-grains.

The following were developed by Darrell M. Wesenberg, USDA, ARS, National Small Grains Germplasm, Research Facility, Aberdeen, Idaho 83210, United States; Idaho Agric. Exp. Station, Aberdeen, Idaho, United States. Received 11/12/1996.

PI 595901. *Avena nuda* L.
Breeding. Pureline. B6Ab1616; NSGC 6135. Pedigree - 79Ab3811/S 7884 = 69Ab1011/Corbit//S 7884. S 7884 was developed by the Univ. of Saskatchewan. Well adapted to irrigated and dryland production in southern Idaho.

PI 595902. *Avena nuda* L.
Breeding. Pureline. 88Ab3073; NSGC 6136. Pedigree - Pennlo/PI 447276. Well adapted to irrigated production in southern Idaho.

The following were collected by Karen A. Williams, USDA, ARS, Natl. Germplasm Resources Laboratory, Building 003, Room 400, BARC-West, Beltsville, Maryland 20705-2350, United States; Cesar Tapia, INIAP, E.E. Sta. Catalina, Santa Catalina, Pichincha, Ecuador. Received 10/07/1996.
PI 595903. Capsicum pubescens Ruiz Lopez & Pavon  
Landrace. WTS-9; aji rocoto. Collected 08/24/1996 in Carchi, Ecuador.  
Latitude 0 deg. 50' 2'' N. Longitude 78 deg. 3' 18'' W. Elevation 2490 m.  
Canton Tulcan, Parroquia Maldonado, Localidad El Laurel. Fruits shiny,  
deep red like a Red Delicious apple, smooth, 5-6cm. long, 7-8cm. wide,  
lobate at pedicel, sunken at blossom end, wall 0.75cm. thick. Seeds large,  
black. Flowers said to be purple. Very piquant.

PI 595904. Capsicum pubescens Ruiz Lopez & Pavon  
Latitude 0 deg. 21' 16'' N. Longitude 78 deg. 30' 46'' W. Elevation 1660 m.  
Canton Cotacachi, Parroquia Apuela, Localidad Santa Rosa. Fruits blocky,  
6cm. long, 4cm wide, shiny red, cordate at pedicel, blossom end sunken,  
slightly corrugated in cross-section, wall 0.5cm thick. Seeds large and black.  
Piquant.

PI 595905. Capsicum annuum L.  
deg. 21' 16'' N. Longitude 78 deg. 30' 46'' W. Elevation 1660 m. Canton  
Cotacachi, Parroquia Apuela, Localidad Santa Rosa. Fruits elongate,  
6cm. long, 2cm. wide, shiny red, obtuse at pedicel, blossom end pointed.  
Seeds white. Flowers said to be white.

The following were collected by Charles E. Simpson, Texas A&M University, P.  
O. Box 292, Stephenville, Texas 76401, United States; Karen A. Williams,  
USDA, ARS, Natl. Germplasm Resources Laboratory, Building 003, Room 400,  
BARC-West, Beltsville, Maryland 20705-2350, United States; Cesar Tapia,  
INIAP, E.E. Sta. Catalina, Santa Catalina, Pichincha, Ecuador. Received  
10/07/1996.

PI 595906. Capsicum annuum L.  
Landrace. WTS-32; aji de boton. Collected 08/28/1996 in Pichincha,  
Ecuador. Latitude 0 deg. 3' 31'' S. Longitude 79 deg. 26' 40'' W.  
Elevation 350 m. Canton Santo Domingo de los Colorados, Parroquia La  
Concordia, Localidad Las Villegas. Store. Fruits 1-1.5cm. long, 0.7cm. wide,  
bright shiny red, triangular, truncate at pedicel, blossom end pointed. Flowers said to be white.

PI 595907. Capsicum frutescens L.  
Landrace. WTS-36; aji de raton. Collected 08/28/1996 in Pichincha,  
Ecuador. Latitude 0 deg. 6' 36'' S. Longitude 79 deg. 26' 48'' W.  
Elevation 360 m. Canton Santo Domingo de los Colorados, Localidad  
Mocache 1. House. Plants 2m. tall. Flowers greenish-white, anthers  
purple, flowers one per node. Fruits erect, 2cm. long, 0.5cm. wide,  
elongate, orange at intermediate stage, red when mature, acute at  
pedicel, blossom end pointed, very piquant.

PI 595908. Capsicum chinense Jacq.  
Landrace. WTS-98; aji. Collected 09/03/1996 in Morona-Santiago, Ecuador.  
Latitude 2 deg. 33' 48'' S. Longitude 78 deg. 9' 22'' W. Elevation 850 m.  
Plant height 2m. Leaves crinkly. Flowers greenish, anthers purple, 1-2  
per node. Fruits pendant, 3-4cm. long, 2cm. wide, triangular, truncate  
at pedicel, slight neck, blossom end pointed, orange at intermed. stage,
red at maturity. Piquant.

Unknown source. Received 11/12/1996.

**PI 595909. Trifolium repens** L.
Cultivar. Population. "BOHNERT LADINO". Developed in United States. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Original duplicates G 12581 and NSL 5460 are now stored as separate seed lots under this accession number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

**PI 595910. Trifolium repens** L.
Cultivar. Population. "FRIES-GRONINGER". Developed in Netherlands. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Original duplicates G 15238 and NSL 40378 are now stored as separate seed lots under this accession number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

**PI 595911. Trifolium repens** L.
Cultivar. Population. "GREEN ACRES". Developed in United States. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Original duplicates G 23188, 24520, NSL 30341 now stored as separate seed lots under this accession number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

**PI 595912. Trifolium repens** L.
Cultivar. Population. "JYGEVA 4". Developed in Russian Federation. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates G 30154, PI 228163, PI 315544 now stored as separate seed lots under this accession number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

**PI 595913. Trifolium repens** L.
Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates G 24105, G 24517, NSL 30347 now stored as separate seed lots under this accession number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

PI 595914. Trifolium repens L.
Cultivar. Population. "KERSEY". Developed in United Kingdom. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates NSL 30348, PI 291836 now stored as separate seed lots under this accession number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

PI 595915. Trifolium repens L.
Cultivar. Population. "MILKA". Developed in Denmark. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates NSL 30350, PI 291830, PI 291831 now stored as separate seed lots under this accession number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

PI 595916. Trifolium repens L.
Cultivar. Population. "NORA". Developed in Sweden. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 195484, PI 215678, PI 257275, PI 297321 now stored as separate seed lots under this accession number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

PI 595917. Trifolium repens L.
Cultivar. Population. "PODKOWA". Developed in Poland. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 255185, PI 267068, PI 384021 now stored as separate seed lots under this accession number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.
PI 595918. Trifolium repens L.
Cultivar. Population. "ROBUSTA". Developed in Sweden. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 195485, PI 215679 now stored as separate seed lots under this number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

PI 595919. Trifolium repens L.
Cultivar. Population. "S100". Developed in United Kingdom. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 291834, NSL 30351 now stored as separate seed lots under this number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

PI 595920. Trifolium repens L.
Cultivar. Population. "S184". Developed in United Kingdom. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 291835, NSL 30352 now stored as separate seed lots under this number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

PI 595921. Trifolium repens L.
Cultivar. Population. "STEINACHER". Developed in Germany. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 232113, PI 237735 now stored as separate seed lots under this number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

PI 595922. Trifolium repens L.
Cultivar. Population. "TREGOR". Developed in France. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 419967, PI 419972 now stored as separate seed lots under this number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.
PI 595923. *Trifolium repens* L.
Cultivar. Population. "VACCARES". Developed in France. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 419971, PI 419974 now stored as separate seed lots under this number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN.

Unknown source. Received 11/12/1996.

PI 595924. *Trifolium repens* L.
Wild. Population. NEW HAMPSHIRE SELECTIONS I. Developed in United States. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 231784, PI 231785 now stored as separate seed lots under this number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN. Collected from old meadows in East Conway, NH (Collector's Note).

Unknown source. Received 11/12/1996.

PI 595925. *Trifolium repens* L.
Wild. Population. NEW HAMPSHIRE SELECTIONS II. Developed in United States. Accession comprised of best representatives of cultivar duplicates identified by Drs. S.L. Greene and G. Pederson (Crop Sci 36(5):1398-1400). Duplicates PI 231786 through PI 231790 now stored as separate seed lots under this number. For information associated with original duplicates (passport, evaluation etc.) refer to original identifiers in GRIN. Collected from 4-yr stand of large type white clover in Conway, NH (Collector's Note).

The following were developed by T. Scott Abney, Purdue University, Department of Botany and Plt. Path., Lilly Hall of Life Sciences Bldg., West Lafayette, Indiana 47907, United States; James R. Wilcox, USDA, ARS, Purdue University, Department of Agronomy, West Lafayette, Indiana 47907, United States. Received 11/12/1996.

Cultivar. Pureline. "Athow"; C1875. CV-366. Pedigree - A86-301024 x Resnik. Maturity Group III, averages 3 days earlier than Thorne and 1 day earlier than Iroquois in maturity. Has Rps1-K gene that confers resistance to multiple races of Phytophthora sojae. Flowers purple, pubescence tawny, pods tan at maturity, seeds dull yellow with black hila, and high peroxidase activity in seed coat. Up to 2% of plants may have brown pods at maturity.

The following were developed by Anna McClung, USDA, ARS, Rice Research Station, Route 7, Box 999, Beaumont, Texas 77713, United States. Received 11/21/1996.

PI 595927. *Oryza sativa* L.
Cultivar. Pureline. "JASMINE 85"; RU8803197; IR841-85. Pedigree - IR262/Khao-Dawk-Mali 105. Long-grain, aromatic cultivar. Multi-state tests in the Southern U.S. showed excellent yield potential (7700 kg/ha) and is competitive with other commercial cultivars. Semidwarf plant height 106cm and late maturing, 97 days to heading. Whole milling yield significantly lower than other U.S. long-grains. Low amylose and gelatinization temperature. Resistant to all known U.S. races of Pyricularia oryzae and to Rhizoctonia solani.

The following were donated by International Potato Center, Apartado 5969, Lima, Lima, Peru. Received 03/20/1995.

PI 595928. Ipomoea batatas (L.) Lam. var. batatas
Cultivar. "Rusenya-RWA"; CIP 440171; 7042 USA; BE-7445; Q 35670.

PI 595929. Ipomoea batatas (L.) Lam. var. batatas
Cultivar. "CN 1869-13"; CIP 440331; 3815 USA; BE-7445; Q 35671. Pedigree - CN1345-8 (female)/WT 298(male).

The following were developed by A.M. Townsend, U.S. National Arboretum, USDA, ARS, 3501 New York Avenue, N.E., Washington, District of Columbia 20002, United States. Received 11/20/1996.

PI 595930. Acer rubrum L.
Cultivar. NA 57772. Pedigree - Selected from seedlings grown from open-pollinated seed collected from trees growing in Cass County near Bena, Minnesota, in the northern part of that state. Produces only male flowers; no fruits. Superior tolerance to the potato leafhopper. Crown strongly columnar filled with dense canopy of large (92mm long x 108mm wide) leaves that show spectacular red autumn color. With its columnar habit, could be used effectively as a tree for windbreak, shelterbelt, or screening purposes. Summer leaf color green. Bark light gray and smooth when young, gradually becoming dark gray and fissured into long scaly ridges. Successfully grown in Alabama, Georgia, Illinois, Iowa, Kansas, Maryland, Maine, Michigan, Minnesota, New Jersey, North Carolina, Ohio, Oregon, and Tennessee. Tolerates extremely cold temperatures represented by USDA Zone 3. Adaptable from USDA Zone 3 through 8, with slower growth occurring in Zones warmer than Zone 5. Tends to grow more rapidly in northern areas. Excellent lawn, street, highway, or park trees. Useful as shade tree for residential properties.

PI 595931. Acer rubrum L.
Cultivar. NA 55405. Pedigree - Selected from seedlings grown from seed collected in the White Mountains, near Bethel, Maine. Produces only male flowers; no fruits. Excellent tolerance to the potato leafhopper. Highly unusual and desirable crown structure, with lower branches upright, and higher branches flaring outward somewhat, creating a shape ideal for city street or landscape planting. This unique crown form, which looks similar to that of a small, upright American elm, fills a much needed niche for red maples in the nursery industry. Foliage turns to an attractive orange-red in autumn. Summer leaf color green. Bark light gray and smooth when young, gradually becoming dark gray and fissured into long scaly ridges. Leaves average 93mm long x 116mm wide.
Successfully grown in Georgia, Maine, Maryland, Minnesota, Ohio, and Oregon. Adaptable from USDA hardiness Zone 4 through 8. Excellent lawn, street, highway, or park trees. Useful as shade tree for residential properties.

The following were donated by Darryl Hardie, The University of Adelaide, Waite Agricultural Research Institute, Department of Agronomy, Glen Osmond, South Australia 5064, Australia; Stephen L. Clement, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 09/02/1993.

PI 595932. *Pisum fulvum* Sibth. & Smith

PI 595933. *Pisum fulvum* Sibth. & Smith
Wild. ATC 113; W6 12554.

PI 595934. *Pisum fulvum* Sibth. & Smith
Wild. ATC 114; W6 12555.

The following were donated by Darryl Hardie, The University of Adelaide, Waite Agricultural Research Institute, Department of Agronomy, Glen Osmond, South Australia 5064, Australia; Stephen L. Clement, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Int. Center for Agricultural Research in the Dry Areas, P.O. Box 5466, Aleppo, Syria. Received 09/02/1993.

PI 595935. *Pisum fulvum* Sibth. & Smith
Wild. IC 63466; W6 12556.

PI 595936. *Pisum fulvum* Sibth. & Smith
Wild. JI 849; W6 12557.

PI 595937. *Pisum fulvum* Sibth. & Smith
Wild. JI 1006; W6 12558.

PI 595938. *Pisum fulvum* Sibth. & Smith
Wild. JI 1010; NGB 102144; W6 12559.

PI 595939. *Pisum fulvum* Sibth. & Smith
Wild. JI 1011; W6 12560.

PI 595940. *Pisum fulvum* Sibth. & Smith
Wild. JI 1012; NGB 102145; W6 12561.
PI 595941. *Pisum fulvum* Sibth. & Smith
Wild. JI 1796; W6 12562.

The following were donated by Darryl Hardie, The University of Adelaide, Waite Agricultural Research Institute, Department of Agronomy, Glen Osmond, South Australia 5064, Australia; Stephen L. Clement, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 09/02/1993.

PI 595942. *Pisum fulvum* Sibth. & Smith
Wild. JI 2205; WIR 6070; W6 12563. Collected in England, United Kingdom.

The following were donated by Darryl Hardie, The University of Adelaide, Waite Agricultural Research Institute, Department of Agronomy, Glen Osmond, South Australia 5064, Australia; Stephen L. Clement, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; John Innes Institute, Colney Lane, Norwich, England NR47UH, United Kingdom. Received 09/02/1993.

PI 595943. *Pisum fulvum* Sibth. & Smith
Wild. JI 2206; WIR 6071; W6 12564.

The following were donated by Darryl Hardie, The University of Adelaide, Waite Agricultural Research Institute, Department of Agronomy, Glen Osmond, South Australia 5064, Australia; Stephen L. Clement, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 09/02/1993.

PI 595944. *Pisum fulvum* Sibth. & Smith

PI 595945. *Pisum fulvum* Sibth. & Smith

PI 595946. *Pisum fulvum* Sibth. & Smith
Wild. PIG 296; Line 1256; W6 12568. Collected 1992 in Turkey.

PI 595947. *Pisum fulvum* Sibth. & Smith
Wild. SA 1602; VIR 2523; W6 12569.

PI 595948. *Pisum fulvum* Sibth. & Smith
Wild. SA 1607; VIR 3397; W6 12570.

The following were donated by Nordic Gene Bank, Box 1543, S-221 01, Lund, Sweden; Stephen L. Clement, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 1994.

PI 595949. *Pisum fulvum* Sibth. & Smith
Wild. NGB 102147; WW2147; W6 16595.
The following were donated by Nordic Gene Bank, Box 1543, S-261 24, Landskrona, Sweden; Stephen L. Clement, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 1994.

PI 595950. Pisum fulvum Sibth. & Smith
Wild. WL 2140 KE CO; W6 16597.

PI 595951. Pisum fulvum Sibth. & Smith
Wild. WL 2143 KE CO; W6 16598.

The following were donated by Wojciech K. Swiecicki, Polish Academy of Sciences, Institute of Plant Genetics, ul. Strzeszynska 34, Poznan, Poland; Stephen L. Clement, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 1994.

PI 595952. Pisum fulvum Sibth. & Smith
Wild. WT 301; 54-672; W6 16599.

The following were donated by John Innes Institute, Norwich, England, United Kingdom; Stephen L. Clement, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 1994.

PI 595953. Pisum fulvum Sibth. & Smith
Wild. JI 1392; NGB 101256; W6 18857.

The following were donated by Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 1983.

PI 595954. Pisum sativum L.

PI 595955. Pisum sativum L.

PI 595956. Pisum sativum L.
PI 595957. Pisum sativum L.

PI 595958. Pisum sativum L.

PI 595959. Pisum sativum L.

PI 595960. Pisum sativum L.

PI 595961. Pisum sativum L.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 595962. Cicer arietinum L.
Cultivated. 060785-0702D; W6 16910. Collected 07/06/1985 in Turkey. Elevation 560 m. Oluklu village near Kahta, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509173.

PI 595963. Cicer arietinum L.
Cultivated. 260685-0104D; W6 16911. Collected 06/27/1985 in Turkey. Elevation 640 m. Mersin Province, 14 Km north of Aydincik on Aydincik to Glnar road.

PI 595964. Cicer arietinum L.
Cultivated. 270685-0201D; W6 16912. Collected 06/27/1985 in Turkey. Elevation 920 m. Field, 7km S of Gulnar, Mersin Province. Desi type obtained from within the kabuli type of PI 509122.
PI 595965. Cicer arietinum L.
Cultivated. 300685-0304D; W6 16913. Collected 06/30/1985 in Turkey. Elevation 560 m. Threshed, 36km from Aktepl towards Gaziantep. Desi type obtained from within the kabuli type of PI 509132.

PI 595966. Cicer arietinum L.
Cultivated. 300685-0601D; W6 16914. Collected 06/30/1985 in Turkey. Elevation 565 m. Threshing area, Kocabeyli village, road to Kilis, Gaziantep Province. Desi type obtained from within the kabuli type of PI 509135.

PI 595967. Cicer arietinum L.
Cultivated. 300685-0703D; W6 16915. Collected 06/30/1985 in Turkey. Elevation 700 m. Harvested plants drying in field in cracking dry soil, road to Gaziantep, 19km N of Kilis, Gaziantep Province. Desi type obtained from within the kabuli type of PI 509137.

PI 595968. Cicer arietinum L.
Cultivated. 300685-0803D; W6 16916. Collected 06/30/1985 in Turkey. Elevation 700 m. Threshing area, Kazikle village, road to Gaziantep, Gaziantep Province. Desi type obtained from within the kabuli type of PI 509138.

PI 595969. Cicer arietinum L.
Cultivated. 300685-0902D; W6 16917. Collected 06/30/1985 in Turkey. Elevation 755 m. Threshing area, 8km N of Kazikle village, road to Gaziantep, Gaziantep Province. Desi type obtained from within the kabuli type of PI 509139.

PI 595970. Cicer arietinum L.
Cultivated. 300685-1002D; W6 16918. Collected 06/30/1985 in Turkey. Elevation 910 m. Harvested, roadside from Kilis, 18km S of Gaziantep, Gaziantep Province. Desi type obtained from within the kabuli type of PI 509140.

PI 595971. Cicer arietinum L.
Cultivated. 010785-0401D; W6 16919. Collected 07/01/1985 in Turkey. Elevation 670 m. Villager at Karoatlak village, about 7km S of Halfeti, Urfa Province. Desi type obtained from within the kabuli type of PI 509142.

PI 595972. Cicer arietinum L.
Cultivated. 010785-0701D; W6 16920. Collected 07/01/1985 in Turkey. Elevation 750 m. Threshing area in Kocaali village, on Birecik to Urfa road, 15km E of turnoff to Halfeti. Desi type obtained from within the kabuli type of PI 509145.

PI 595973. Cicer arietinum L.
Cultivated. 020785-0103D; W6 16921. Collected 07/02/1985 in Turkey. Elevation 650 m. 2km after intersection towards Bozova, 12km from Urfa. Desi type obtained from within the kabuli type of PI 509146.

PI 595974. Cicer arietinum L.
Cultivated. 030785-0202D; W6 16922. Collected 07/03/1985 in Turkey.
Elevation 520 m. Tatarchayuk village, Urfa Province, 15 Km after village Yariatepe. From threshing pile in village. Desi type obtained from within the kabuli type of PI 509148.

PI 595975. Cicer arietinum L.
Cultivated. 050785-0202D; W6 16923. Collected 07/05/1985 in Turkey. Elevation 510 m. Near dam site, direction of Samsat 3km after Birecik village, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509355.

PI 595976. Cicer arietinum L.
Cultivated. 050785-0201D; W6 16924. Collected 07/05/1985 in Turkey. Elevation 510 m. Harvested piles, 3km after village of Birecik, towards Samsat, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509158.

PI 595977. Cicer arietinum L.
Cultivated. 050785-0303D; W6 16925. Collected 07/05/1985 in Turkey. Elevation 390 m. Piles in field, Seitbulak village, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509160.

PI 595978. Cicer arietinum L.
Cultivated. 050785-0401D; W6 16926. Collected 07/05/1985 in Turkey. Elevation 450 m. Kovanoluk-Samsat, near Firat river, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509161.

PI 595979. Cicer arietinum L.
Cultivated. 050785-0402D; W6 16927. Collected 07/05/1985 in Turkey. Elevation 450 m. Piles in field, Tepeonu village, near Samsat, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509162.

PI 595980. Cicer arietinum L.
Cultivated. 050785-0403D; W6 16928. Collected 07/05/1985 in Turkey. Elevation 400 m. Harvested piles, Tepeonu-Hoziyan-Nezrase village, near Firat river, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509163.

PI 595981. Cicer arietinum L.
Cultivated. 060785-0101D; W6 16929. Collected 07/06/1985 in Turkey. Elevation 490 m. Threshing pile, 12km NW of DSI camp at Ataturk dam, on road from DSI camp to Adiyaman, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509164.

PI 595982. Cicer arietinum L.
Cultivated. 060785-0102D; W6 16930. Collected 07/06/1985 in Turkey. Elevation 495 m. Threshing pile, Kuyulu village, 14km from DSI camp, Ataturk dam on road to Adiyaman, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509165.

PI 595983. Cicer arietinum L.
Cultivated. 060785-0401D; W6 16931. Collected 07/06/1985 in Turkey. Elevation 620 m. Piles of dry plants in farmer's field on rocky calcareous soil, on old road 12km N of separation of old and new roads to Adiyaman, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509170.
PI 595984. Cicer arietinum L.
Cultivated. 060785-0703D; W6 16932. Collected 07/06/1985 in Turkey.
Elevation 560 m. Oluoklu village near Kahta, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509174.

PI 595985. Cicer arietinum L.
Cultivated. 060785-0802D; W6 16933. Collected 07/06/1985 in Turkey.
Elevation 605 m. Adiyaman Province. Desi type obtained from within the kabuli type of PI 509175.

PI 595986. Cicer arietinum L.
Cultivated. 060785-0902D; W6 16934. Collected 07/06/1985 in Turkey.
Elevation 610 m. Eskitas village, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509176.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 595987. Cicer arietinum L.
Cultivated. 060785-0902SD; W6 16935. Collected 07/06/1985 in Turkey.
Elevation 610 m. Adiyaman Province, Eskitas village. Small desi type obtained from within the kabuli type of PI 509176.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 595988. Cicer arietinum L.
Cultivated. 060785-1001D; W6 16936. Collected 07/06/1985 in Turkey.
Elevation 540 m. Storage, Dardason-Kahta village, near Firat river, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509177.

PI 595989. Cicer arietinum L.
Cultivated. 060785-1102D; W6 16937. Collected 07/06/1985 in Turkey.
Elevation 680 m. Piles, Dardagon village, Kahta, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509178.

PI 595990. Cicer arietinum L.
Cultivated. 060785-1201D; W6 16938. Collected 07/06/1985 in Turkey.
Elevation 740 m. Narinci village, Kahta, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509179.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State
PI 595991. Cicer arietinum L.
Cultivated. 060785-1201SD; W6 16939. Collected 07/06/1985 in Turkey.
Elevation 740 m. Narinci village-Kaht, Adiyaman Province. Small desi type obtained from within the kabuli type of PI 509179.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 595992. Cicer arietinum L.
Elevation 600 m. Piles of dry plants in farmer's field on brown rocky soil, on road to Siverek, 17km E of Kahta, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509181.

Unknown source. Received 04/06/1987.

PI 595993. Cicer arietinum L.
Cultivated. 070785-0101SD; W6 16941. Small desi type obtained from within the kabuli type of PI 509181.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 595994. Cicer arietinum L.
Elevation 410 m. Piles of dry plants in farmer's field on rocky brown soil, Cayor village near the Firat (Euphrates) River, 4 km after Mustafa, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509183.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 595995. Cicer arietinum L.
Cultivated. 070785-0301SD; W6 16943. Collected 07/07/1985 in Turkey.
Elevation 410 m. 4 Km after Mustafa, Cayor village near the First (Euphrates) River, Adiyaman Province. Collected seeds from piles of dry plants in farmer's field on rocky brown soil. Small desi type obtained from within the kabuli type of PI 509183.
The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 595996. Cicer arietinum L.
Cultivated. 070785-0402D; W6 16944. Collected 07/07/1985 in Turkey. Elevation 510 m. Piles, 2km after Mardi village, towards Siverek main road, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509184.

PI 595997. Cicer arietinum L.
Cultivated. 070785-0502D; W6 16945. Collected 07/07/1985 in Turkey. Elevation 550 m. Piles of dry plants in farmer's field on rocky brown soil, Basele village towards Siverek, Adiyaman Province. Desi type obtained from within the kabuli type of PI 509185.

PI 595998. Cicer arietinum L.
Cultivated. 070785-0801D; W6 16946. Collected 07/07/1985 in Turkey. Elevation 1060 m. Roadside, from Siverek, 60km from Diyarbakir, Urfa Province. Desi type obtained from within the kabuli type of PI 509186.

PI 595999. Cicer arietinum L.
Cultivated. 090785-0101D; W6 16947. Collected 07/09/1985 in Turkey. Elevation 645 m. Piles, 11km from Diyarbakir towards Cinar, Diyarbakir Province. Desi type obtained from within the kabuli type of PI 509187.

PI 596000. Cicer arietinum L.
Cultivated. 100785-0302D; W6 16948. Collected 07/10/1985 in Turkey. Elevation 710 m. Threshing pile, village on road from Diyarbakir to Silvan, 56km from Silvan, Diyarbakir Province. Desi type obtained from within the kabuli type of PI 509191.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 596001. Cicer arietinum L.
Cultivated. 100785-0302SD; W6 16949. Collected 07/10/1985 in Turkey. Elevation 710 m. 56 Km from Silvan on the Diyarbakir to Silvan road, Diyarbakir Province. Small desi type obtained from within the kabuli type of PI 509191.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.
PI 596002. *Cicer arietinum* L.
Cultivated. 100785-0601D; W6 16950. Collected 07/10/1985 in Turkey. Elevation 780 m. Farmer's field on brown rocky soil, Bagdere village, 26km to Silvan, Diyarbakir to Silvan road, Diyarbakir Province. Desi type obtained from within the kabuli type of PI 509193.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 596003. *Cicer arietinum* L.
Cultivated. 100785-0601SD; W6 16951. Collected 07/10/1985 in Turkey. Elevation 720 m. Brown, rocky soil, 16km from Silvan, Diyarbakir to Silvan road, Diyarbakir Province. Desi type obtained from within the kabuli type of PI 509195.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 596004. *Cicer arietinum* L.
Cultivated. 100785-0703D; W6 16952. Collected 07/10/1985 in Turkey. Elevation 790 m. Field, piles of drying plants in brown soil, road to Elazig, 41 km N of Diyarbakir, Diyarbakir Province. Desi type obtained from within the kabuli type of PI 509200.

PI 596005. *Cicer arietinum* L.
Cultivated. 110785-0201D; W6 16953. Collected 07/11/1985 in Turkey. Elevation 790 m. Field, piles of drying plants in brown soil, road to Elazig, 41 km N of Diyarbakir, Diyarbakir Province. Desi type obtained from within the kabuli type of PI 509199.

PI 596006. *Cicer arietinum* L.
Cultivated. 110785-0301D; W6 16954. Collected 07/11/1985 in Turkey. Elevation 790 m. Maturing plants in field of rocky, brown soil, 58km to Malatya from intersection of road to Arapkir, Malatya Province. Desi type obtained from within the kabuli type of PI 509203.
Doganler village, 320km to Kayseri, Malatya Province. Desi type obtained from within the kabuli type of PI 509205.

**PI 596009. Cicer arietinum L.**
Cultivated. 130785-0401D; W6 16957. Collected 07/13/1985 in Turkey.
Elevation 1480 m. 286km to Kayseri from Malatya, Malatya Province. Desi type obtained from within the kabuli type of PI 509206.

**PI 596010. Cicer arietinum L.**
Elevation 1400 m. Storage, village of Pazaroren, 26km after Pinarbasi, Kayseri Province. Desi type obtained from within the kabuli type of PI 509207.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 04/06/1987.

**PI 596011. Cicer arietinum L.**
Cultivated. 130785-0502SD; W6 16959. Collected 07/13/1985 in Turkey.
Elevation 1400 m. 26 km after Pinarbasi, Kayseri Province, village of Pazaroren. Small desi type obtained from within the kabuli type of PI 509207.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

**PI 596012. Cicer arietinum L.**
Cultivated. 160785-0201D; W6 16960. Collected 07/16/1985 in Turkey.
Elevation 1160 m. Cukuragil village, 30km to Beysehir, Konya Province. Desi type obtained from within the kabuli type of PI 509221.

**PI 596013. Cicer arietinum L.**
Cultivated. 160785-0301D; W6 16961. Collected 07/16/1985 in Turkey.
Elevation 1130 m. Road from Konya, 24km to Beysehir, Konya Province. Desi type obtained from within the kabuli type of PI 509222.

**PI 596014. Cicer arietinum L.**
Cultivated. 160785-0401D; W6 16962. Collected 07/16/1985 in Turkey.
Elevation 1100 m. Road from Konya, 14km to Beysehir, Konya Province. Desi type obtained from within the kabuli type of PI 509223.

**PI 596015. Cicer arietinum L.**
Cultivated. 160785-0702D; W6 16963. Collected 07/16/1985 in Turkey.
Elevation 1050 m. Road to Konya, 10km from Seydisehir, Konya Province. Desi type obtained from within the kabuli type of PI 509229.
PI 596016. Cicer arietinum L.
Cultivated. 160785-0801D; W6 16964. Collected 07/16/1985 in Turkey. Elevation 1110 m. Green and maturing plants in farmer's field on brown, rocky soil, road to Konya, 25km from Seydisehir, Konya Province. Desi type obtained from within the kabuli type of PI 509230.

PI 596017. Cicer arietinum L.
Cultivated. 170785-0401SD; W6 16965. Collected 07/17/1985 in Turkey. Elevation 50 m. Road to Adana, near salt lake (Tuz Golu), 28km to Serefli-Kochesar, Ankara Province. Small desi type obtained from within the kabuli type of PI 509232.

PI 596018. Cicer arietinum L.
Cultivated. 170785-1002D; W6 16966. Collected 07/17/1985 in Turkey. Desi type obtained from within the kabuli type of PI 509235.

Unknown source. Received 04/06/1987.

PI 596019. Cicer arietinum L.
Cultivated. 170785-0602D; W6 16967.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 596020. Cicer arietinum L.
Cultivated. 170785-0701D; W6 16968. Collected 07/17/1985 in Turkey. Elevation 920 m. Piles of dry plants in farmer's field, 12km to Kaman from the Hirfanli Dam, Ankara Province. Desi type obtained from within the kabuli type of PI 509233.

PI 596021. Cicer arietinum L.
Cultivated. 170785-0901D; W6 16969. Collected 07/17/1985 in Turkey. Elevation 820 m. Golbasi Lake, 14km after Meryenkasi village, Kirsehir Province. Desi type obtained from within the kabuli type of PI 509234.

PI 596022. Cicer arietinum L.
Cultivated. 170785-1101D; W6 16970. Collected 07/17/1985 in Turkey. Elevation 1020 m. 16km to Kirsehir, Kirsehir Province. Desi type obtained from within the kabuli type of PI 509236.

Unknown source. Received 04/06/1987.

PI 596023. Cicer arietinum L.
Cultivated. 170785-1101SD; W6 16971. Small desi type obtained from within the kabuli type of PI 509236.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State
PI 596024. Cicer arietinum L.
Cultivated. 180785-0201D; W6 16972. Collected 07/18/1985 in Turkey. Elevation 1010 m. Pods from green and maturing plants on brown clay loam soil, road from Kirsehir, 14km to Cicke dagi, Kirsehir Province. Desi type obtained from within the kabuli type of PI 509237.

PI 596025. Cicer arietinum L.
Cultivated. 210785-0701D; W6 16973. Collected 07/21/1985 in Turkey. Elevation 800 m. 23km to Kalecik from Cankiri, Cankiri Province. Desi type obtained from within the kabuli type of PI 509244.

Unknown source. Received 04/06/1987.

PI 596026. Cicer arietinum L.
Cultivated. 230785-0102D; W6 16974.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 596027. Cicer arietinum L.
Cultivated. 230785-0202D; W6 16975. Collected 07/23/1985 in Turkey. Elevation 1060 m. 21km from Dinar on road to Afyon, Afyon Province. Desi type obtained from within the kabuli type of PI 509247.

PI 596028. Cicer arietinum L.
Cultivated. 230785-0301D; W6 16976. Collected 07/23/1985 in Turkey. Elevation 1050 m. Kiziloren village, about 25km from Dinar on road to Afyon, Afyon Province. Desi type obtained from within the kabuli type of PI 509248.

PI 596029. Cicer arietinum L.
Cultivated. 230785-0303D; W6 16977. Collected 07/23/1985 in Turkey. Elevation 1050 m. Piles of plants drying in field, Kiziloren village, 25km from Dinar on road to Afyon, Afyon Province. Desi type obtained from within the kabuli type of PI 509251.

PI 596030. Cicer arietinum L.
Cultivated. 230785-0501D; W6 16978. Collected 07/23/1985 in Turkey. Elevation 1040 m. Afyon-Kusra, (Dogansu) village, 40km N of Dinar, Sandikli town, Afyon Province. Desi type obtained from within the kabuli type of PI 509254.

PI 596031. Cicer arietinum L.
Cultivated. 230785-0502D; W6 16979. Collected 07/23/1985 in Turkey. Elevation 1040 m. Piles of plants in field near Dogansu village, 40km N
of Dinar on road to Afyon, Afyon Province. Desi type obtained from within the kabuli type of PI 509255.

Unknown source. Received 04/06/1987.

PI 596032. Cicer arietinum L.
Cultivated. 230785-0102D; W6 16980.

Unknown source. Received 04/06/1987.

PI 596033. Cicer arietinum L.
Cultivated. 230785-0701D; W6 16981.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

PI 596034. Cicer arietinum L.
Cultivated. 230785-0702D; W6 16982. Collected 07/23/1985 in Turkey. Elevation 1100 m. 10km to Haydarle, 30km to Dinar, Afyon Province. Desi type obtained from within the kabuli type of PI 509257.

PI 596035. Cicer arietinum L.
Cultivated. 240785-0102D; W6 16983. Collected 07/24/1985 in Turkey. Elevation 1100 m. Dikici village, 14km after Dinar on way to Isparta. Desi type obtained from within the kabuli type of PI 509259.

PI 596036. Cicer arietinum L.
Cultivated. 240785-0201D; W6 16984. Collected 07/24/1985 in Turkey. Elevation 950 m. Gumiesgin village, on way from Dinar to Isparta, Isparta Province. Desi type obtained from within the kabuli type of PI 509260.

PI 596037. Cicer arietinum L.
Cultivated. 240785-0401D; W6 16985. Collected 07/24/1985 in Turkey. Elevation 910 m. 13km to Isparta on road from Dinar, Isparta Province. Desi type obtained from within the kabuli type of PI 509261.

PI 596038. Cicer arietinum L.
Cultivated. 240785-0702D; W6 16986. Collected 07/24/1985 in Turkey. Elevation 850 m. Road from Bucak to Burdur, 32km to Burdur, Burdur Province. Desi type obtained from within the kabuli type of PI 509264.

PI 596039. Cicer arietinum L.
Cultivated. 240785-0801D; W6 16987. Collected 07/24/1985 in Turkey. Elevation 1200 m. Bucak-Burdur road, 25km from Burdur, Burdur Province. Desi type obtained from within the kabuli type of PI 509265.

PI 596040. Cicer arietinum L.
Elevation 1200 m. Harvested piles of plants in field, Caltak village, on way from Burdur to Yesilova, Burdur Province. Desi type obtained from within the kabuli type of PI 509268.

Unknown source. Received 04/06/1987.

**PI 596041. Cicer arietinum** L.
Cultivated. 250785-0501D; W6 16989.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

**PI 596042. Cicer arietinum** L.
Cultivated. 250785-0701D; W6 16990. Collected 07/25/1985 in Turkey. Elevation 1100 m. 7km from Civril on way to Usak, Denizli Province. Desi type obtained from within the kabuli type of PI 509284.

**PI 596043. Cicer arietinum** L.
Cultivated. 250785-0801D; W6 16991. Collected 07/25/1985 in Turkey. Elevation 1010 m. 33km to Usak from Civril, 8km from Usak-Denizli border, Usak Province. Desi type obtained from within the kabuli type of PI 509285.

Unknown source. Received 04/06/1987.

**PI 596044. Cicer arietinum** L.
Cultivated. 250785-0801SD; W6 16992. Small desi type obtained from within the kabuli type of PI 509285.

The following were donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 04/06/1987.

**PI 596045. Cicer arietinum** L.
Cultivated. 260785-0402SD; W6 16993. Collected 07/26/1985 in Turkey. Elevation 1200 m. Storage, Aykpinar yulu village, near Gediz, Kutahya Province. Small desi type obtained from within the kabuli type of PI 509294.

**PI 596046. Cicer arietinum** L.
Cultivated. 270785-0202D; W6 16994. Collected 07/27/1985 in Turkey. Elevation 920 m. 39km from Eskisehir on road from Kutahya, Kutahya Province. Desi type obtained from within the kabuli type of PI 509296.

**PI 596047. Cicer arietinum** L.
Elevation 920 m. 39km from Eskisehir on road from Kutahya, Kutahya Province. Desi type obtained from within the kabuli type of PI 509297.

PI 596048. Cicer arietinum L.
Cultivated. 280785-0102SD; W6 16996. Collected 07/28/1985 in Turkey. Elevation 180 m. Threshing area, Bezirci village, 26km to Gonen on road to Canakkale, Balikesir Province. Small desi type obtained from within the kabuli type of PI 509302.

PI 596049. Cicer arietinum L.
Cultivated. 280785-0404D; W6 16997. Collected 07/28/1985 in Turkey. Elevation 50 m. Seed store, Guvemalan village, 34km after Gonen on road to Biga, Canakkale Province. Desi type obtained from within the kabuli type of PI 509306.

The following were collected by Paul Gepts, University of California, Dept. of Agronomy & Range Science, Davis, California 95616-8515, United States; L. Guzman, Cent. de Invest. Fitoeocogeneticas de Pairumani, Casilla 128, Cochabamba, Bolivia; Daniel Debouck, Centro Internacional de Agriculuta Tropical, Germplasm Resources Unit, Apdo. aereo 6713, Cali, Colombia; Raul Rios, Centro de Investigaciones Fitogeneticas de Pairumani, Cochabamba, Bolivia. Received 07/22/1996.

PI 596050. Capsicum sp.
Wild. 3002. Collected 05/14/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 7' 0'" S. Longitude 64 deg. 38' 0'" W. Elevation 3200 m. Zudanez, Oda Rio Kulmicu'chu, 1 km W Patas Tejas.

PI 596051. Capsicum eximium Hunz.
Wild. 3003. Collected 05/14/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 7' 0'" S. Longitude 64 deg. 38' 0'" W. Elevation 2290 m. Zudanez, Esancia Tejas.

PI 596052. Capsicum baccatum L.
Wild. 3004. Collected 05/14/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 16' 0'" S. Longitude 64 deg. 24' 0'" W. Elevation 2150 m. Tomina, Hacienda Sobo Sobo.

PI 596053. Capsicum eximium Hunz.
Wild. 3005. Collected 05/14/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 16' 0'" S. Longitude 64 deg. 24' 0'" W. Elevation 2150 m. Tomina, Hacienda Sobo Sobo.

PI 596054. Capsicum baccatum L.
Wild. 3008. Collected 05/15/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 17' 0'" S. Longitude 64 deg. 20' 0'" W. Elevation 2060 m. Tomina, Estancia Campo Redondo.

PI 596055. Capsicum baccatum L.
Wild. 3009. Collected 05/15/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 17' 0'" S. Longitude 64 deg. 20' 0'" W. Elevation 2100 m. Tomina, Estancia Campo Redondo, Achuma.

PI 596056. Capsicum baccatum L.
Wild. 3013. Collected 05/15/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 35' 0'' S. Longitude 64 deg. 26' 0'' W. Elevation 1900 m. Tomina, Rio Grande, 5 km N de San Pedro.

PI 596057. Capsicum baccatum L.
Wild. 3014. Collected 05/15/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 37' 0'' S. Longitude 64 deg. 28' 0'' W. Elevation 1870 m. Azurduy, 1 km ? de San Pedro.

PI 596058. Capsicum baccatum L.
Wild. 3015. Collected 05/16/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 28' 0'' S. Longitude 64 deg. 11' 0'' W. Elevation 2150 m. Tomina, El Rosal, 42 km SSE Padilla.

PI 596059. Capsicum chacoense Hunz.
Wild. 3016. Collected 05/16/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 34' 0'' S. Longitude 64 deg. 6' 0'' W. Elevation 1200 m. Tomina, Comunidad Thiu Mayu, 68 km SSE Padilla.

PI 596060. Capsicum chacoense Hunz.
Wild. 3019. Collected 05/17/1994 in Chuquisaca, Bolivia. Latitude 19 deg. 49' 0'' S. Longitude 63 deg. 48' 0'' W. Elevation 1160 m. Hernando Siles, Cruz Pampa, 34 km E de Monteagudo.

PI 596061. Capsicum annuum L.

PI 596062. Capsicum eximium Hunz.
Wild. 3027. Collected 05/22/1994 in Chuquisaca, Bolivia. Latitude 20 deg. 35' 0'' S. Longitude 64 deg. 46' 0'' W. Elevation 2160 m. NorCinti, St. Elena.

PI 596063. Capsicum chacoense Hunz.
Wild. 3028. Collected 05/22/1994 in Chuquisaca, Bolivia. Latitude 20 deg. 35' 0'' S. Longitude 64 deg. 46' 0'' W. Elevation 2160 m. NorCinti, St. Elena.

The following were collected by Qinghua Zhang, Chinese Academy of Forestry, Beijing, China. Donated by Joseph Postman, USDA, ARS, National Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 11/08/1996.

PI 596064. Indigofera pseudotinctoria Matsum.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1987.

PI 596065. Zea mays L. ssp. mays
The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596066. Zea mays L. ssp. mays  
Breeding. 101DGA-3347:61.

PI 596067. Zea mays L. ssp. mays  
Breeding. 101dgB-2727:62.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596068. Zea mays L. ssp. mays  
Breeding. 101dgB-3348:61.

PI 596069. Zea mays L. ssp. mays  
Breeding. 101dgB-686:60.

PI 596070. Zea mays L. ssp. mays  
Breeding. 101gAT6-2724/2723:62.

PI 596071. Zea mays L. ssp. mays  
Breeding. 101U-638:60.

PI 596072. Zea mays L. ssp. mays  
Breeding. 103h-1704:58.

PI 596073. Zea mays L. ssp. mays  
Breeding. 103n-1342:59.

PI 596074. Zea mays L. ssp. mays  
Breeding. 103q-1705:58.

The following were developed by W. Huelsen, Illinois Agricultural Experiment Station, Illinois, United States. Donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596075. Zea mays L. ssp. mays  
Breeding. 104b-777/61-M53.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596076. Zea mays L. ssp. mays  
Breeding. 104q-1344:59.

PI 596077. Zea mays L. ssp. mays  
Breeding. 107a-3016:59.

PI 596078. Zea mays L. ssp. mays
Breeding. 107a-3704:58.

PI 596079. Zea mays L. ssp. mays
Breeding. 110d-370:61.

PI 596080. Zea mays L. ssp. mays
Breeding. 110k-1718:58.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1987.

PI 596081. Zea mays L. ssp. mays
Breeding. 110k-240:60.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596082. Zea mays L. ssp. mays
Breeding. 110K*-1352:57.

PI 596083. Zea mays L. ssp. mays
Breeding. 110k*1331:56.

PI 596084. Zea mays L. ssp. mays
Breeding. 110m-1353:57.

PI 596085. Zea mays L. ssp. mays
Breeding. 110m-539:60.

PI 596086. Zea mays L. ssp. mays
Breeding. 110n-1333:56.

PI 596087. Zea mays L. ssp. mays
Breeding. 110n-1354:57.

PI 596088. Zea mays L. ssp. mays
Breeding. 110n-1719:58.

PI 596089. Zea mays L. ssp. mays
Breeding. 110p-1720:58.

PI 596090. Zea mays L. ssp. mays
Breeding. 119g-2008:54.

PI 596091. Zea mays L. ssp. mays
Breeding. 11D-1495:68.

PI 596092. Zea mays L. ssp. mays
Breeding. 124a-2806:63.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1988.
PI 596093. Zea mays L. ssp. mays
Breeding. 124b-1735:58.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596094. Zea mays L. ssp. mays
Breeding. 125a-1370:56.

PI 596095. Zea mays L. ssp. mays
Breeding. 12Z-B-820:57.

PI 596096. Zea mays L. ssp. mays
Breeding. 12Z-C-821:57.

PI 596097. Zea mays L. ssp. mays
Breeding. 12Z-D-822:57.

PI 596098. Zea mays L. ssp. mays
Breeding. 13D-1707:59.

PI 596099. Zea mays L. ssp. mays
Breeding. 14C-1013:74.

PI 596100. Zea mays L. ssp. mays
Breeding. 14H-1014:74.

PI 596101. Zea mays L. ssp. mays
Breeding. 14N-2100:56.

PI 596102. Zea mays L. ssp. mays
Breeding. 18B-3233:63.

PI 596103. Zea mays L. ssp. mays
Breeding. 18B-548:64.

PI 596104. Zea mays L. ssp. mays
Breeding. 190a-5389:56.

The following were developed by W. Huelsen, Illinois Agricultural Experiment Station, Illinois, United States. Donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596105. Zea mays L. ssp. mays
Breeding. 191a-3563:61.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596106. Zea mays L. ssp. mays
Breeding. 191g-2044:58.
PI 596107. Zea mays L. ssp. mays

PI 596108. Zea mays L. ssp. mays
Breeding. 2051A-539:73.

PI 596109. Zea mays L. ssp. mays
Breeding. 2051A-614:72.

PI 596110. Zea mays L. ssp. mays
Breeding. 2051B-353:58.

PI 596111. Zea mays L. ssp. mays
Breeding. 2132-143:62.

PI 596112. Zea mays L. ssp. mays
Breeding. 2132-3076:63.

PI 596113. Zea mays L. ssp. mays
Breeding. 2132-3447:61.

PI 596114. Zea mays L. ssp. mays
Breeding. 2256-653:60.

PI 596115. Zea mays L. ssp. mays
Breeding. 2256-670:60.

PI 596116. Zea mays L. ssp. mays
Breeding. 27A*123-1395:66.

PI 596117. Zea mays L. ssp. mays

PI 596118. Zea mays L. ssp. mays

PI 596119. Zea mays L. ssp. mays
Breeding. 27A*123-850:68.

PI 596120. Zea mays L. ssp. mays
Breeding. 3002-1440:60.

PI 596121. Zea mays L. ssp. mays
Breeding. 304a-2947:62.

PI 596122. Zea mays L. ssp. mays
Breeding. 304a-3181:63.

PI 596123. Zea mays L. ssp. mays
Breeding. 304a-3341:61.

PI 596124. Zea mays L. ssp. mays
Breeding. 437a-1766:58.
PI 596125. Zea mays L. ssp. mays

PI 596126. Zea mays L. ssp. mays
Breeding. 439a-1769:58.

PI 596127. Zea mays L. ssp. mays
Breeding. 442a-953:65.

PI 596128. Zea mays L. ssp. mays
Breeding. 454a-3187:63.

PI 596129. Zea mays L. ssp. mays

PI 596130. Zea mays L. ssp. mays
Breeding. 465a-293:64.

PI 596131. Zea mays L. ssp. mays
Breeding. 511a-1399:59.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1979.

PI 596132. Zea mays L. ssp. mays
Breeding. 5145A-554:62.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596133. Zea mays L. ssp. mays
Breeding. 5261A-693:57.

The following were developed by John Haber, Pau Seed, RR 5, Box 3, Ames, Iowa 50010, United States. Donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596134. Zea mays L. ssp. mays
Breeding. 5261B-3716:58.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596135. Zea mays L. ssp. mays
Breeding. 5261B-689:57.

PI 596136. Zea mays L. ssp. mays
Breeding. 540a-1254:60.

The following were developed by W. Huelsen, Illinois Agricultural Experiment

PI 596137. Zea mays L. ssp. mays
Breeding. 540a-3569:61.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596138. Zea mays L. ssp. mays
Breeding. 5418A-930:56.

PI 596139. Zea mays L. ssp. mays
Breeding. 541a-1782:58.

PI 596140. Zea mays L. ssp. mays
Breeding. 541b-1273:56.

PI 596141. Zea mays L. ssp. mays
Breeding. 542a-880:55.

PI 596142. Zea mays L. ssp. mays
Breeding. 542c-1411:59.

PI 596143. Zea mays L. ssp. mays
Breeding. 543a-1784:58.

PI 596144. Zea mays L. ssp. mays
Breeding. 543b-1785:58.

PI 596145. Zea mays L. ssp. mays
Breeding. 552a-1450:57.

PI 596146. Zea mays L. ssp. mays
Breeding. 557a-1285:56.

PI 596147. Zea mays L. ssp. mays

PI 596148. Zea mays L. ssp. mays
Breeding. 574a-1800:58.

PI 596149. Zea mays L. ssp. mays
Breeding. 598a-1425:59.

PI 596150. Zea mays L. ssp. mays
Breeding. 598a-295:64.

PI 596151. Zea mays L. ssp. mays
Breeding. 6038D-119:64.

PI 596152. Zea mays L. ssp. mays
Breeding. 6038D-31722F.
PI 596153. Zea mays L. ssp. mays
Breeding. 6038D-31722R.

PI 596154. Zea mays L. ssp. mays
Breeding. 6038D-36784T.

PI 596155. Zea mays L. ssp. mays
Breeding. 607a-1260:60.

PI 596156. Zea mays L. ssp. mays
Breeding. 611a-5394:56.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1987.

PI 596157. Zea mays L. ssp. mays
Breeding. 615a-1309:56.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596158. Zea mays L. ssp. mays
Breeding. 616a-1461:57.

PI 596159. Zea mays L. ssp. mays
Breeding. 665a-1843:58.

PI 596160. Zea mays L. ssp. mays
Breeding. 668a-1844:58.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1987.

PI 596161. Zea mays L. ssp. mays
Breeding. ARTIC FIRST 34597.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596162. Zea mays L. ssp. mays
Breeding. AUNT MARY-788:70M.

PI 596163. Zea mays L. ssp. mays
Breeding. AUNT MARY-790:70M.

PI 596164. Zea mays L. ssp. mays
Breeding. AUNT MARY-789:70M.

PI 596165. Zea mays L. ssp. mays
Breeding. BANTAM CROSBY-26782.
The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596166. Zea mays L. ssp. mays

PI 596167. Zea mays L. ssp. mays
Breeding. C12B-100:60.

PI 596168. Zea mays L. ssp. mays

PI 596169. Zea mays L. ssp. mays

PI 596170. Zea mays L. ssp. mays
Breeding. C13et-123:68.

PI 596171. Zea mays L. ssp. mays
Breeding. C13GL-287B:68.

PI 596172. Zea mays L. ssp. mays

PI 596173. Zea mays L. ssp. mays
Breeding. C13LDG-32705pr T.

PI 596174. Zea mays L. ssp. mays

PI 596175. Zea mays L. ssp. mays

PI 596176. Zea mays L. ssp. mays

PI 596177. Zea mays L. ssp. mays

PI 596178. Zea mays L. ssp. mays

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1996.

PI 596179. Zea mays L. ssp. mays

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596180. Zea mays L. ssp. mays
The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596181. Zea mays L. ssp. mays
Breeding. C3-2540:63.

PI 596182. Zea mays L. ssp. mays
Breeding. C3-2577:62.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596183. Zea mays L. ssp. mays
Breeding. C3-2ABCA-2286:73.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596184. Zea mays L. ssp. mays

PI 596185. Zea mays L. ssp. mays

PI 596186. Zea mays L. ssp. mays

PI 596187. Zea mays L. ssp. mays
Breeding. CSNT-36938(x).

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1987.

PI 596188. Zea mays L. ssp. mays
Breeding. C68R(x)-552:63.

PI 596189. Zea mays L. ssp. mays

PI 596190. Zea mays L. ssp. mays

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596191. Zea mays L. ssp. mays
PI 596192. Zea mays L. ssp. mays

PI 596193. Zea mays L. ssp. mays

PI 596194. Zea mays L. ssp. mays

PI 596195. Zea mays L. ssp. mays

PI 596196. Zea mays L. ssp. mays

PI 596197. Zea mays L. ssp. mays
Breeding. Cr P8B-221:61.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1983.

PI 596198. Zea mays L. ssp. mays

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596199. Zea mays L. ssp. mays

PI 596200. Zea mays L. ssp. mays
Breeding. Cr M8-222:61.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596201. Zea mays L. ssp. mays
Breeding. MA21547-1-PA-2675:63.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596202. Zea mays L. ssp. mays

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596203. Zea mays L. ssp. mays
Breeding. MA2412-1-2645:63.
PI 596204. Zea mays L. ssp. mays
Breeding. MA52.429-901:58.

PI 596205. Zea mays L. ssp. mays

PI 596206. Zea mays L. ssp. mays
Breeding. MA54 368-984:57.

PI 596207. Zea mays L. ssp. mays

PI 596208. Zea mays L. ssp. mays

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596209. Zea mays L. ssp. mays

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1987.

PI 596210. Zea mays L. ssp. mays

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596211. Zea mays L. ssp. mays
Breeding. Me1-130:53.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596212. Zea mays L. ssp. mays
Breeding. ME100-926:58.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596213. Zea mays L. ssp. mays

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1988.
The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596214. Zea mays L. ssp. mays
Breeding. Me266-1002:57.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596215. Zea mays L. ssp. mays
Breeding. NARROW GRAIN EVERGREEN-475:66.

PI 596216. Zea mays L. ssp. mays
Breeding. NARROW GRAIN EVERGREEN-453:67.

PI 596217. Zea mays L. ssp. mays
Breeding. NJ E10-400:63.

PI 596218. Zea mays L. ssp. mays
Breeding. NJ1301-929:58.

PI 596219. Zea mays L. ssp. mays
Breeding. NJ1303-1008:57.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596220. Zea mays L. ssp. mays
Breeding. NJ143Y-604:58.

PI 596221. Zea mays L. ssp. mays
Breeding. NJ143Y-971:57.

PI 596222. Zea mays L. ssp. mays
Breeding. NJ143Y-977:57.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596223. Zea mays L. ssp. mays
Breeding. NJ502-309:68.

PI 596224. Zea mays L. ssp. mays
Breeding. NJ504-313:68.

PI 596225. Zea mays L. ssp. mays
Breeding. NJ505-417:68.

PI 596226. Zea mays L. ssp. mays
Breeding. NJ506-314:68.
The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596227. Zea mays L. ssp. mays
Breeding. NJ510-315:68.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596228. Zea mays L. ssp. mays
Breeding. NJ510-393:69M.

PI 596229. Zea mays L. ssp. mays
Breeding. NJ538A-378:70M.

PI 596230. Zea mays L. ssp. mays
Breeding. NJ603-380:70M.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596231. Zea mays L. ssp. mays
Breeding. NJ618-406:69M.

PI 596232. Zea mays L. ssp. mays
Breeding. NJ618-407:69M.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596233. Zea mays L. ssp. mays
Breeding. NJ664-392:70.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596234. Zea mays L. ssp. mays
Breeding. NJ688-397:70M.

PI 596235. Zea mays L. ssp. mays
Breeding. NJ688-398:70M.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1987.

PI 596236. Zea mays L. ssp. mays
Breeding. NJ710-412:68.
PI 596237. Zea mays L. ssp. mays
Breeding. NJ710-423:69M.

PI 596238. Zea mays L. ssp. mays
Breeding. NJ714-403:68.

PI 596239. Zea mays L. ssp. mays
Breeding. NJ715A-399:70M.

PI 596240. Zea mays L. ssp. mays
Breeding. NJ846-494:73.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596241. Zea mays L. ssp. mays
Breeding. OLCOTT-1067:72.

PI 596242. Zea mays L. ssp. mays
Breeding. OLCOTT-1068:72.

PI 596243. Zea mays L. ssp. mays
Breeding. OLCOTT-1069:72.

PI 596244. Zea mays L. ssp. mays
Breeding. OLCOTT-1923:53.

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1982.

PI 596245. Zea mays L. ssp. mays

PI 596246. Zea mays L. ssp. mays
Breeding. P16-263:60.

PI 596247. Zea mays L. ssp. mays

PI 596248. Zea mays L. ssp. mays

PI 596249. Zea mays L. ssp. mays

PI 596250. Zea mays L. ssp. mays

PI 596251. Zea mays L. ssp. mays

PI 596252. Zea mays L. ssp. mays
PI 596253. Zea mays L. ssp. mays

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1987.

PI 596254. Zea mays L. ssp. mays

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1987.

PI 596255. Zea mays L. ssp. mays

PI 596256. Zea mays L. ssp. mays
Breeding. P39LE-3438:64.

PI 596257. Zea mays L. ssp. mays

PI 596258. Zea mays L. ssp. mays

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596259. Zea mays L. ssp. mays

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1987.

PI 596260. Zea mays L. ssp. mays
Breeding. P39W-2590B:60.

PI 596261. Zea mays L. ssp. mays

PI 596262. Zea mays L. ssp. mays

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596263. Zea mays L. ssp. mays
Breeding. P51-482:59.

PI 596264. Zea mays L. ssp. mays

PI 596265. Zea mays L. ssp. mays
Breeding. SYN COGENT-1828:61.

PI 596266. Zea mays L. ssp. mays
Breeding. T20R-35871(x).

PI 596267. Zea mays L. ssp. mays
Breeding. T20R-35871A(x).

The following were donated by Nicholas D Molenaar, Crookham Company, P.O. Box 520, Caldwell, Idaho 83606-0520, United States. Received 1984.

PI 596268. Zea mays L. ssp. mays

PI 596269. Zea mays L. ssp. mays
Breeding. T60R-548:62.

The following were donated by Crookham Company, Caldwell, Idaho, United States. Received 1979.

PI 596270. Zea mays L. ssp. mays
Breeding. T69W-1236:60.

The following were developed by Ron D. Barnett, University of Florida, North Florida Res. & Ed. Center, R.#3, Box 4370, Quincy, Florida 32351, United States. Received 09/01/1996.

PI 596271. Triticum aestivum L., nom. cons.

The following were developed by David S. Marshall, Texas A&M University, Research & Extension Center, 17360 Coit Road, Dallas, Texas 75252-6599, United States. Received 09/01/1996.

PI 596272. Triticum aestivum L., nom. cons.
Breeding. Pureline. TX91D7012; NSGC 6139. Pedigree - Siouxland/TAM 300//Caldwell/Era. Soft red winter wheat. Good winterhardiness for a soft red winter wheat adapted to the southern U.S. Carries leaf rust resistance genes Lr1, Lr2a, Lr2c, plus factors for adult-plant resistance.

PI 596273. Triticum aestivum L., nom. cons.
PI 596274. Triticum aestivum L., nom. cons. 

The following were developed by A.I. Al-Suliman, National Agriculture and Water Research Center, P.O. Box 17285, Riyadh 11484, Saudi Arabia; K.A. Al-Zeir, National Agriculture and Water Research Center, P.O. Box 17285, Riyadh 11484, Saudi Arabia; Aly Ibrahim, U.S. Department of Agriculture, 1636 East Alisal Street, Salinas, California 93905, United States. Received 12/05/1996.

PI 596275. Cucurbita moschata (Duchesne) Poiret 
Cultivar. HAMDAN. A plant with small fruit selected after four generations of selection and inbreeding from an open-pollinated population of the Egyptian pumpkin. Fruit small, uniform shape, skin cream-colored, easy to peel, smooth texture. Sweeter than local variety. Mature in 122 days from planting to harvest. Vines vigorous. Plant extends to 5 m in diameter. Averages 3 fruit per plant. Grows well in the hot, dry Saudi environment. Excellent keeping and storing quality. May be kept for 2 months at room temperature and 20-30% relative humidity. Suitable for export.

PI 596276. Cucurbita moschata (Duchesne) Poiret 
Cultivar. QASIM. Long-necked fruit selected from a large population of Egyptian pumpkins at a local market in the Qasim area in 1989. Fruit length 62 to 87 cm, skin cream-colored with touch of bronze at harvest. Neck length 40 to 60 cm, represents 70% of total fruit length and 66% of total fruit weight, flesh solid orange. Bulb small with small cavity; seeds embedded in the bulb. Mature in 112 days. Vines vigorous, extending to >3 m. Leaves dark green and mottled around veins. Average 2 fruit per plant and yielded 27% more than local variety. Grows well in the hot, dry Saudi environment. Excellent keeping and storing quality. May be kept for 2 months at room temperature and 20-30% relative humidity. Suitable for export.

The following were developed by Mark T. Nielsen, University of Kentucky, Agronomy Department, N212E Ag. Sci. Bldg., Lexington, Kentucky 40546, United States. Received 12/09/1996.

PI 596277. Nicotiana tabacum L. 
Cultivar. Pureline. "KY908". CV-113. Pedigree - KY17/TN86. Flowers approx. 70 days after transplanting. Largest leaf average 67 x 34 cm. Stalk diameter average 3.73 cm. Resistant to tobacco mosaic virus, black root rot (Thielaviopsis basicola), wildfire (Pseudomonas syringae pv. tabaci), and tobacco vein mottling virus. Moderate resistance to tobacco etch virus, black shank (Phytophthora parasitica var. nicotianae), and Fusarium wilt (Fusarium oxysporum).

The following were donated by Herb S. Aldwinckle, Cornell University, New York State Agric. Exp. Station, Department of Plant Pathology, Geneva, New York.

PI 596278. Malus ombrophila Hand.-Mazz.
Uncertain. GMAL 3123. Collected in China.

The following were donated by L. Shreve, Texas A & M University, P.O. Box 1849, Uvalde, Texas 78802, United States. Received 12/15/1988.

PI 596279. Malus ioensis (Alph. Wood) Britton
Uncertain. GMAL 3127; TEXANA.

The following were collected by Elizabeth Dickson, Cornell Univ., L.H. Bailey Hortorium, Ithaca, New York 14853, United States; C. Sperling, USDA-ARS, Plant Exploration Office, Bldg 001, BARC-West, Beltsville, Maryland 20705-2350, United States; Herb S. Aldwinckle, Cornell University, New York State Agric. Exp. Station, Department of Plant Pathology, Geneva, New York 14456-0462, United States. Received 10/10/1989.

PI 596280. Malus sieversii (Ledeb.) M. Roemer
Wild. USSR-89-23-02; GMAL 3265. Collected 09/05/1989 in Uzbekistan. Elevation 1630 m. Loose white rocky soil. Calcareous. Open scrub and herbaceous vegetation. Tree to 5.0 m.

The following were donated by Herb S. Aldwinckle, Cornell University, New York State Agric. Exp. Station, Department of Plant Pathology, Geneva, New York 14456-0462, United States. Received 12/15/1988.

PI 596281. Malus ombrophila Hand.-Mazz.
Uncertain. GMAL 3125. Collected in China.

The following were collected by Elizabeth Dickson, Cornell Univ., L.H. Bailey Hortorium, Ithaca, New York 14853, United States; C. Sperling, USDA-ARS, Plant Exploration Office, Bldg 001, BARC-West, Beltsville, Maryland 20705-2350, United States; Herb S. Aldwinckle, Cornell University, New York State Agric. Exp. Station, Department of Plant Pathology, Geneva, New York 14456-0462, United States. Received 10/10/1989.

PI 596282. Malus sieversii (Ledeb.) M. Roemer

PI 596283. Malus sieversii (Ledeb.) M. Roemer
Wild. USSR-89-31-04; GMAL 3310. Collected 09/09/1989 in Kazakhstan. Elevation 1550 m. NE slope (ca. 30%). Forest of mature apple trees with mostly closed canopy. Tree height to 10 m, 18 cm DBH.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 412
PI 596284. Avena barbata Pott ex Link

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States; Calvin R. Sperling, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 402, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States. Received 09/15/1989.

PI 596285. Hordeum vulgare ssp. spontaneum (K. Koch) Thell.
Wild. 040689-0401; W6 2002; NSGC 5987. Collected 06/04/1989 in Mardin, Turkey. Latitude 37 deg. 30' N. Longitude 40 deg. 51' E. Elevation 880 m. 7.5 km NE of Pinardere on road to Savur from Mardin or 26 km after turnoff to Savur from Mardin-Midyat road. Common at base of limestone outcrop. Steep rocky limestone slopes.

PI 596286. Triticum monococcum L.
Cultivated. 030689-0303; W6 1993; NSGC. Collected 06/03/1989 in Diyarbakir, Turkey. Latitude 37 deg. 36' N. Longitude 40 deg. 30' E. Elevation 850 m. 19 km S of Cinar or 3 km before Yukari-Konak. Common. Hard limestone outcrops, rubble. Heavily grazed. Scattered. Coppiced. Steep N facing slope. Associated with wild barley, H. spontaneum and diploid wheat. Annual to 0.5m. Spikes tan to black.

PI 596287. Aegilops markgrafii (Greuter) K. Hammer
Wild. 060689-0502; W6 2038; NSGC 5989. Collected 06/06/1989 in Mardin, Turkey. Latitude 37 deg. 28' N. Longitude 41 deg. 9 E. 4.3 km W of the intersection of the Senkoy-Savur road on road from Midyat-Mardin or 20.3 km E of Oemerli. Common. Steep E facing rocky limestone slope, heavily grazed, abandoned terraces. Cultivated lentil field.

PI 596288. Aegilops neglecta Reg. ex Bertol.
Wild. 060689-0503; W6 2039; NSGC 5990. Collected 06/06/1989 in Mardin, Turkey. Latitude 37 deg. 28' N. Longitude 41 deg. 9' E. 4.3 km W of the intersection of the Senkoy-Savur road on road from Midyat-Mardin. Or 20.3 km E of Oemerli. Abundant. Cultivated lentil field.

PI 596289. Triticum timopheevii var. araraticum (Jakubz.) Yen
Wild. 020689-0304; NSGC 5991. Collected 06/02/1989 in Diyarbakir, Turkey. Latitude 37 deg. 51' N. Longitude 39 deg. 49' E. Elevation 1320 m. 20 km east of Karacadag on road Siverek to Diyarbakir, 7 km east of Karabache village at highway maintenance substation 1 km south of road in protected ungrazed recently forested. Rocky basalt outcrops, vegetation dominated by Secale montanum, Hordeum bulbosum, annual and perennial legumes.
PI 596290. Triticum timopheevii var. araraticum (Jakubz.) Yen Wild. 100689-0103; NSGC 5992. Collected 06/10/1989 in Siirt, Turkey. Latitude 37 deg. 43' N. Longitude 42 deg. 15' E. Elevation 1160 m. 6 km east of Eruh on the Eruh-Sirnak road. Steep, south facing slope in canyon; hard limestone with oak trees.

The following were developed by Crop Experiment Station, Office of Rural Development, Suwon, Kyonggi, Korea, South. Donated by Bong Ho Lee, Crop Experiment Station, Rural Development Administration, Suwon, Kyonggi 441-100, Korea, South. Received 04/06/1993.

PI 596291. Perilla sp.
Cultivar. "Yeupsildlggae"; Ames 20207. Pedigree - The F1 population it was selected from was first grow in 1981. Released 1988. Used for oilseed and vegetable production. In Korea, flowers September 6, matures seeds October 3, and grows 143cm tall. Yields 126 kg/ha of seeds. Leaves green and heart shaped. Seeds dark brown and small, with 45.6% oil.

PI 596292. Perilla frutescens (L.) Britton
Cultivar. "Daeyeupdlggae"; Ames 20208. Pedigree - Selection from the Bosung local strains collected in 1985. Released 1992. Seeds white and weigh 6.3 g per 1,000 seeds. In Korea, flowering is on Sept. 3, maturity is on Oct. 3, and grows 140cm tall. Used for leaf and seed production. Improves on older cultivars by having larger seeds and leaves, better insect resistance, and less lodging. Seeds higher in unsaturated fatty acid, protein, and essential amino acids, than older cultivars.

The following were developed by Duane L. Johnson, Colorado State University, Dept. of Agronomy, Fort Collins, Colorado 80523, United States. Received 12/1986.

PI 596293. Chenopodium quinoa Willd.
Cultivar. "COLORADO 407D"; "407"; "DAVE"; "CO407"; 407/DAVE/CO407; NSL 219867. Pedigree - From Chilean germplasm. Released 1987. An early maturity type, maturing in 95 to 100 days. Plant height varies with moisture, nutrition, and plant density, but at 250,000 to 300,000 plants per acre they average 99 cm. Compared to other germplasms evaluated, better general resistance to powdery mildew, damping off, various lepidoptera, and leaf miners. Susceptable to sugarbeet root aphid. At physiological maturity, 94% of the plants turn red and gold, 3% are green and 3% are green with red panicles. Seed pericarp variable in color with 95% yellow pericarps and 5% assorted colors (red, white, and black). Seed homozygous recessive for translucent endosperm.
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Lens culinaris (592997-592998)
Leymus angustus (595148, 595159, 595175, 595183)
Leymus karelinii (595143)
Lolium multiflorum (593651, 593742-593743, 595069, 595075-595076)
Lolium perenne (593464-593465, 594037-594039, 595043-595047, 595347, 595349, 595597, 595627-595628, 595677)
Luffa acutangula (593396, 593398, 593400, 593403)
Luffa aegyptiaca (593391-593395, 593397, 593399, 593401-593402, 593404-593405)
Lupinus albus (594916)
Lupinus bicolor (594974)
Lycianthes asarifolia (592727)
Malus asiatica (594099, 594107)
Malus baccata (594110)
Malus domestica (594108, 594111)
Malus fusca (594105)
Malus halliana (594112)
Malus honanensis (594113)
Malus hupehensis (594098)
Malus ioensis (596279)
Malus kansuensis (594097)
Malus micromalus (594092-594093, 594096)
Malus ombrophila (596278, 596281)
Malus orientalis (594095, 594101)
Malus prunifolia (594102-594103, 594109)
Malus pumila (594106)
Malus sieboldii (594094)
Malus sieversii (596280, 596282-596283)
Malus sieversii var. turkmenorum (594104)
Malus spectabilis (594100)
Medicago sativa (593033, 594041, 595598-595599, 595601)
Medicago sativa ssp. sativa (593242-593255, 593650, 594913-594914, 595577, 595589, 595592)
Melilotus albus (593233-593236, 595321-595327, 595390-595392, 595396)
Melilotus dentatus (595334)
Melilotus officinalis (595328-595333, 595335, 595388-595389, 595393-595394, 595397)
Melilotus suaveolens (593408, 595395)
Momordica charantia (593406-593407)
Morus alba (594915)
Nicotiana tabacum (593657, 596277)
Origanum vulgare (593731, 593738)
Oryza sativa (592738-592740, 592895-592896, 593021, 593241, 593690, 593892, 595209-595211, 595360-595361, 595900, 595927)
Pennisetum glaucum (592791-592792, 592891, 595755)
Perilla frutescens (596292)
Perilla sp. (596291)
Phaseolus vulgaris (592782-592783, 592786, 592839, 592898, 593029-593030, 593470-593473, 594322-594327, 594362-594363, 594388-594391, 595380, 595600, 595602-595605, 595892, 595894)
Pisum fulvum (595932-595953)
Pisum sativum (592752-592753, 593468-593469, 594357-594360, 594364-594367, 595092-595093, 595572-595575, 595579-595582, 595585-595587, 595591, 595682, 595954-595961)
Poa annua (595833-595837)
Poa compressa (595588)
Poa pratensis (593022, 593409-593412, 594361, 594919, 595097, 595593)
Poa trivialis (594396)
Populus hybrid (594370)
Prunus cerasus (592840-592841, 592844-592849, 592853-592883, 592890, 594350-594351)
Prunus fruticosa (592842-592843, 592850-592852, 592884-592889)
Psathyrostachys juncea (595133, 595135, 595138, 595142, 595152, 595155, 595165, 595168, 595177, 595184)
Pseudoroegneria spicata (595191-595196)
Pseudoroegneria strigosa ssp. aegilopoides (595164, 595172)
Punica granatum (594962-594968)
Raphanus sativus (593455)
Saccharum hybrid (592802, 595084, 595672-595673)
Saccharum spontaneum (593441-593454)
Securigera varia (595386-595387)
Sesamum indicum (593656, 594909)
Solanum berthaultii (595507)
Solanum brachistotrichum (595485)
Solanum brachycarpum (595513)
Solanum brevicaule (595501)
Solanum bulbocastanum ssp. bulbocastanum (595464, 595471, 595475)
Solanum bulbocastanum ssp. dolichophyllum (595473)
Solanum candollei (595502-595503)
Solanum cardiophyllum (595489)
Solanum cardiophyllum ssp. cardiophyllum (595465-595466, 595468, 595470, 595476-595477)
Solanum cardiophyllum ssp. ehrenbergii (595479-595480, 595482, 595486, 595488)
Solanum cardiophyllum ssp. lanceolatum (595467)
Solanum fendleri (595774, 595776, 595779, 595781)
Solanum jamesii (595775, 595777-595778, 595780, 595782-595788)
Solanum melongena (593744-593886, 595220)
Solanum microdontum (595398-595401, 595505-595506, 595508-595511)
Solanum neovalenzuelae (595448)
Solanum oxyacarpum (595525)
Solanum phureja (595419, 595462, 595514)
Solanum pinnatisectum (595463, 595483-595484)
Solanum polyadenium (595474)
Solanum polytrichon (595481, 595504)
Solanum sambucinum (595478)
Solanum sp. (595407-595418, 595428, 595430)
Solanum stenotomum (595443-595444, 595446)
Solanum stenotomum ssp. goniocalyx (595439)
Solanum stoloniferum ssp. stoloniferum (595472)
Solanum tuberosum (595402-595406, 595427, 595429, 595432, 595434-595435, 595449-595461, 595469, 595487, 595490-595494, 595515-595524)
Solanum tuberosum ssp. andigena (595496-595500)
Solanum tuquerrense (595495)
Solanum verrucosum (595526)
Solanum x ajanhuiri (595437, 595442)
Solanum x juzepczukii (595438, 595440-595441, 595445, 595447)
Solanum x sucrense (595512)
Sorghum amplum (592617)
Sorghum angustum (592705, 592707, 592709, 592711-592712, 592716-592719)
Sorghum bicolor (593895-593918, 594354-594355, 595205-595208, 595222-595314, 595431, 595699-595748)
Sorghum brachypodium (592635-592636)
Sorghum bulbosum (592584-592585, 592587, 592589-592590, 592602, 592607, 592616, 592618, 592621-592622, 592624)
Sorghum ecarinatum (592612, 592700)
Sorghum extensus (592570, 592632-592633, 592696, 592721)
Sorghum grande (592699)
Sorghum interjectum (592567, 592588, 592593, 592598, 592603-592606, 592608-592609, 592611, 592613, 592615, 592623, 592679, 592684-592692)
Sorghum intrans (592564-592566, 592580, 592626-592627, 592629-592631, 592634, 592693, 592697, 592722)
Sorghum laxiflorum (592648, 592651, 592653, 592657, 592662, 592673-592674, 592678, 592704, 592706, 592708, 592710, 592713-592715, 592720)
Sorghum macroperum (592562)
Sorghum matarankense (592656, 592659, 592702)
Sorghum nitidum (592675-592677, 592680-592682)
Sorghum plutosum (592569, 592571, 592573-592574, 592576-592577, 592583, 592586, 592601, 592628, 592637, 592646-592647, 592649-592650, 592652, 592654-592655, 592669-592672, 592694-592695, 592723)
Sorghum stipoidum (592568, 592572, 592575, 592578-592579, 592581, 592591-592592, 592594-592597, 592599-592600, 592614, 592625, 592660, 592663, 592698)
Sorghum timorensis (592563, 592619-592620, 592638, 592640-592645, 592658, 592661, 592663-592668, 592701, 592703)
Sorghum x drummondii (595221)
Stachys tenuifolia (593721)
Stipa capillata (595131)
Thymus kotschyanus var. kotschyanus (593724)
Trifolium albopturpureum (593275, 593321, 593328)
Trifolium alexandrinum (595100-595101)
Trifolium amoenum (593323)
Trifolium arvense (593325)
Trifolium aureum (593260-593261)
Trifolium barbigerum (593279, 593309, 593318, 593324)
Trifolium barbigerum var. andrewsii (593311, 593316, 593320)
Trifolium bifidum var. decipiens (593277, 593285)
Trifolium buckwestiorum (593307)
Trifolium carolinianum (595217)
Trifolium ciliolatum (593270-593271, 593274, 593286, 593302)
Trifolium cyathiferum (593331-593333, 593335-593337, 593339)
Trifolium depauperatum (593295, 593310, 593312)
Trifolium dubium (593262, 593267)
Trifolium echinatum var. carmeli (593263)
Trifolium fucatum (593281, 593298, 593313, 593322)
Trifolium gracilentum (593280, 593287, 593297, 593300)
Trifolium hirtum (593266)
Trifolium macraei (593278, 593319)
Trifolium macrocephalum (593338)
Trifolium microcephalum (593268, 593276, 593283, 593292, 593303, 593330, 593334)
Trifolium microdon (593288, 593293, 593301, 593326)
Trifolium obtusiflorum (593296)
Trifolium oliganthum (593289)
Trifolium polydon (593304, 593306)
Trifolium pratense (595681, 595893)
Trifolium repens (595088-595089, 595909-595925)
Trifolium subterraneum ssp. subterraneum (593264)
Trifolium suffocatum (593265)
Trifolium trichocalyx (593305)
Trifolium variegatum (593282, 593284, 593294, 593300, 593314-593315, 593317, 593327, 593329)
Trifolium wildenovii (593269, 593272-593273, 593290-593291, 593299)
Tripsacum dactyloides (595896-595898)
Triticum aestivum (592728-592732, 592742, 592750, 592759-592761, 592785, 592793-592795, 592982-592987, 592990, 593031-593032, 593044, 593047, 593240, 593645-593646, 593658-593659, 593688-593689, 593889-593891, 594043-594044, 594372, 594917, 594920, 595085, 595090, 595098, 595212-595216, 595379, 595660-595671, 595675, 595678, 595680, 595757, 595773, 595842, 595848, 596271-596274)

Triticum durum (593000-593006, 595094, 595646-595659)
Triticum monococcum (596286)
Triticum timopheevii var. araraticum (596289-596290)
Triticum turgidum (593887, 595849)
Vicia villosa ssp. varia (595756)
Vigna unguiculata ssp. unguiculata (593060-593232, 595102-595104)
Vitis hybrid (594333-594337, 594339-594343, 594345-594347, 594349)
Vitis riparia (594344)
Vitis sp. (594338, 594348)
X Triticosecale sp. (594921, 595676)
X Tritordeum sp. (592751)
Zea mays ssp. mays (592733-592735, 592741, 592762-592781, 593007-593019, 593036-593042, 593456-593457, 593459-593462, 593466, 594025-594031, 594045-594091, 595336-595346, 595366-595378, 595383, 595527-595571, 595606-595618, 595623-595625, 595825, 595844-595847, 596065-596270)