



United States  
Department of  
Agriculture

Agricultural  
Research  
Service

# Plant Inventory No. 197, Part II

Plant Materials Introduced  
July 1 to December 31, 1988  
(Nos. 520599 to 527506)



U. S. Department of Agriculture, ARS:  
Nat'l. Plant Germplasm Quarantine  
11601 Old Pond Drive  
Glen Dale, Maryland 20769-9157



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## CONTENTS

Inventory	3
Index	717
Scientific names	717
Common names	719
Acronyms	720

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Plant Inventory No. 197 is divided into two parts that encompass PIs 514276 - 527506 for calendar year 1988. Questions about data organization and proper plant identification should be directed to the authors. This is not a listing of plant material for distribution.

Thanks are expressed to the following persons associated with the Plant Introduction Office for their contribution to Plant Inventory No. 197: L.G. Garner and R.A. Norris for continued excellence in handling all aspects of the computer system operation. Assistance by members of the Germplasm Resources Information Network (GRIN) with software and hardware problems is appreciated. Special thanks are extended to L.L. Jansen for his contributions in documenting data on the flax collection.

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ARS has no additional copies for free distribution.

Issued August 1989

PI 520599. *Gossypium hirsutum* L. MALVACEAE Cotton

**Donated by:** Jinda, Jan-orn, Field Crops Res. Institute, Dept. of Agriculture, Bangkok, Thailand. Received June 16, 1988.

**donor id:** AG 18. **origin:** Thailand. **cultivar:** SI SAMRONG 60 COTTON. **pedigree:** ACQ 1217-3-2/Si Samrong 2. **other id:** CV-95. **group:** CSR-COTTON. **remarks:** Yield high. Adaptability wide. Fibers strong, fine with high lint percentage. **disease resistance:** Leaf roll virus. Cultivar. Seed.

PI 520600. *Arachis hypogaea* L. FABACEAE Peanut

**Donated by:** Smith, O.D., Dept. of Soil & Crop Sciences, Texas A&M University, College Station, Texas, United States; and Simpson, C.E., Texas Agric. Experiment Station, P.O. Box 292, Stephenville, Texas, United States. Received June 16, 1988.

**donor id:** B771174. **origin:** United States. **cultivar:** TAMRUN 88. **pedigree:** Goldin I/Florunner. **other id:** CV-34. **group:** CSR-PEANUTS. **other id:** Tx771174. **remarks:** Plants runner market-type with high yield and shelling percentage. Seedling emergence faster and more uniform than Florunner. Mature pod and seed size 55.3g/100. Reactions to early and late leafspots and to pod rot similar to Florunner. Cultivar. Seed.

PI 520601. *Trifolium alexandrinum* L. FABACEAE Berseem clover

**Donated by:** Graves, W.L., Cooperative Extension, University of California, San Diego County, San Diego, California, United States. Received June 16, 1988.

**origin:** UNKNOWN. **cultivar:** MULTICUT. **other id:** CV-77. **group:** CSR-OTHER LEGUMES. **remarks:** Plants upright, high-yielding, multiple cuts (five to six), long growing period in northern and southern California and northern Mexico. Flowering starts late May, seed mature by late July. Seed production excellent. Seeds yellow, some with purple pigmentation. Superior type for green chop, silage, pasture, cover crop, and hay use. Winter Annual. Cultivar. Seed.

PI 520602. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

**Donated by:** Hanna, W.W., USDA-ARS, Coastal Plain Experiment Station, Tifton, Georgia, United States. Received June 16, 1988.

PI 520602-continued

**donor id:** Tift MR88. **origin:** United States. **pedigree:** Redbine 60/\*PI 383856. **other id:** GP-233. **group:** CSR-SORGHUM. **remarks:** Plants 2.1m tall. Flowers in 62 and 56 days for mid-May and mid-June plantings. Panicles semi-compact with reddish-brown glumes. Seeds white with pigmented testa. Male sterile restorer to AlTx623/Tift MR88 hybrids. Midge resistance controlled by recessive gene(s). **insect resistance:** Sorghum midge (*Contarinia sorghicola*). **Breeding Material.** Seed.

PI 520603 to 520607. *Phaseolus vulgaris* L. FABACEAE Garden bean

**Donated by:** Bliss, F.A., Dept. of Horticulture, University of Wisconsin, Madison, Wisconsin, United States. **remarks:** Cooperative efforts between the College of Agric. and Life Sciences, Univ. of Wisconsin and the Centro Nacional de Pesquisa de Arroz e Feijao, EMBRAPA, Goiania, Brazil. Received June 16, 1988.

PI 520603 **donor id:** WBR22-3. **origin:** United States. **pedigree:** Inbred backcross (BC253) line from ICA Pijao/Puebla 152. **other id:** GP-71. **group:** CSR-OTHER LEGUMES. **other id:** 22-3. **remarks:** Plant erect, type II habit with medium guide stem. Seeds dry type, dull (opaque) black, 10g/50. N fixation high. Seed yield high. **disease resistance:** Moderate to bean rust and angular leaf spot. Bean common mosaic virus (single dominant I-gene). **Breeding Material.** Seed.

PI 520604 **donor id:** WBR22-8. **origin:** United States. **pedigree:** Inbred backcross (BC253) line from ICA Pijao/Puebla 152. **other id:** GP-72. **group:** CSR-OTHER LEGUMES. **other id:** 22-8. **remarks:** Plant erect, type II habit with medium guide stem. Seeds dry type, dull (opaque) black, 10g/50. N fixation high. Seed yield high. **disease resistance:** Moderate to bean rust and angular leaf spot. Bean common mosaic virus (single dominant I-gene). **Breeding Material.** Seed.

PI 520605 **donor id:** WBR22-34. **origin:** United States. **pedigree:** Inbred backcross (BC253) line from ICA Pijao/Puebla 152. **other id:** GP-73. **group:** CSR-OTHER LEGUMES. **other id:** 22-34. **remarks:** Plant erect, type II habit with medium guide stem. Seeds dry type, dull (opaque) black. N fixation high. Seed yield high. **disease resistance:** Moderate to bean rust and angular leaf spot. Bean common mosaic virus (single dominant I-gene). **Breeding Material.** Seed.

PI 520603 to 520607-continued

PI 520606 donor id: WBR22-50. origin: United States. pedigree: Inbred backcross (BC253) line from ICA Pijao/Puebla 152. other id: GP-74. group: CSR-OTHER LEGUMES. other id: 22-50. remarks: Plant erect, type II habit with medium guide stem. Seeds dry type, dull (opaque) black, 8.5g/50. N fixation high. Seed yield high. disease resistance: Moderate to bean rust and angular leaf spot. Bean common mosaic virus (single dominant I-gene). Breeding Material. Seed.

PI 520607 donor id: WBR22-55. origin: United States. pedigree: Inbred backcross (BC253) line from ICA Pijao/Puebla 152. other id: GP-75. group: CSR-OTHER LEGUMES. other id: 22-55. remarks: Plant erect, type II habit with medium guide stem. Seeds dry type, dull (opaque) black. N fixation high. Seed yield high. disease resistance: Moderate to bean rust and angular leaf spot. Bean common mosaic virus (single dominant I-gene). Breeding Material. Seed.

PI 520608. Trifolium hybrid FABACEAE

Donated by: Taylor, N.L., Collins, G.B., Department of Agronomy, University of Kentucky, Lexington, Kentucky, United States. Received June 16, 1988.

origin: United States. pedigree: Trifolium sarosiense Hazsl.(PI 292827)/T. pratense (Kenstar). other id: GP-18. group: CSR-CLOVER, RED. remarks: Plants strongly perennial, somewhat less rhizomatous than T. sarosiense, completely sterile. Chromosome number 31(24-T. sarosiense, 7- T. pratense). Potential, if sterility overcome, for transferring genes for perenniality to T. pratense. Perennial. Breeding Material. Plant.

PI 520609 to 520610. Zea mays L. POACEAE Corn

Donated by: Widstrom, N.W., USDA-ARS, Coastal Plain Experiment Station, P.O. Box 748, Tifton, Georgia, United States; and Bagby, M.O.; Carr, M.E., Northern Regional Research Center, USDA-ARS, 1815 N. Univ. St., Peoria, Illinois, United States. remarks: Cooperative efforts by USDA-ARS and the University of Georgia Agric. Experiment Station. Received June 16, 1988.

PI 520609 to 520610-continued

PI 520609 donor id: GT-SSRS-SX. origin: United States. pedigree: Sel. from bulked seed of chain crosses among seven single crosses of six inbreds 9-54C, CI7, C103, Hy, P39, and SC235. other id: GP-182. group: CSR-MAIZE. remarks: Breeding population for increased concentration of soluble solids (14.4%) in stalk juices. Maturity about AES 1100 at Tifton with 50% pollens shed in 70 to 72 days. Cobs and kernel color mixed. Breeding Material. Seed.

PI 520610 donor id: GT-SSRS-PX. origin: United States. pedigree: Sel. from bulked seed of chain crosses among seven single crosses between C103 and O-P populations and collections. other id: GP-183. group: CSR-MAIZE. remarks: Breeding population for increased concentration of soluble solids (14.7%) in stalk juices. Gene sul exists at very low frequency. Maturity about AES 1100 at Tifton with 50% pollen shed in 70 to 72 days. Cobs and kernel color mixed. Breeding Material. Seed.

PI 520611 to 520619. Pennisetum pedicellatum Trin. POACEAE

Donated by: Abou, F., Direction des Services Agricoles, IVRAZ, Station de Kamboinee, Burkina Faso; and Fournier, A., ORSTOM, 70-74 Route d' Aulnay, 93140 Bondy, France. remarks: Received through IBPGR, Rome, Italy. Received September 07, 1984.

PI 520611 donor id: 84. origin: Burkina Faso. collected: September 29, 1984. collector id: 84. locality: Side of millet field in Dori-Bamga. Annual. Cultivated. Seed.

PI 520612 donor id: 92. origin: Burkina Faso. collected: September 29, 1984. collector id: 92. locality: Side road, Dori-Bani. Annual. Cultivated. Seed.

PI 520613 donor id: 277. origin: Burkina Faso. collected: September 19, 1984. collector id: 277. locality: Sandy-clay soil, 10km W of Forage Christine. Annual. Cultivated. Seed.

PI 520614 donor id: 284. origin: Burkina Faso. collected: September 20, 1984. collector id: 284. locality: Oursi Dialafanua. Annual. Cultivated. Seed.

PI 520615 donor id: 323. origin: Burkina Faso. collected: September 28, 1984. collector id: 323. locality: Along side of swamp, Soum-Sembango. Annual. Cultivated. Seed.

PI 520611 to 520619-continued

PI 520616 donor id: 328. origin: Burkina Faso. collected: September 28, 1984. collector id: 328. locality: Field, Oursi-Gandefabou. Annual. Cultivated. Seed.

PI 520617 donor id: 334. origin: Burkina Faso. collected: September 29, 1984. collector id: 334. locality: Millet field, Deou. Annual. Cultivated. Seed.

PI 520618 donor id: 337. origin: Burkina Faso. collected: September 29, 1984. collector id: 337. locality: Clay soil, sorghum field S of Deou. remarks: Population polymorphic. Annual. Cultivated. Seed.

PI 520619 donor id: 369. origin: Burkina Faso. collected: October 04, 1984. collector id: 369. locality: Inside field fence, Djibo Filifili. Annual. Cultivated. Seed.

PI 520620. *Pennisetum violaceum* (Lam.) Rich. POACEAE

Donated by: Abou, F., Direction des Services Agricoles, IVRAZ, Station de Kamboinee, Burkina Faso; and Fournier, A., ORSTROM, 70-74 Route d' Aulnay, 93140 Bondy, France. remarks: Received through IBPGR, Rome, Italy. Received September 07, 1984.

donor id: 312. origin: Burkina Faso. collected: September 25, 1984. collector id: 312. locality: Oursi Dialafanka. Annual. Cultivated. Seed.

PI 520621 to 520622. *Zornia glochidiata* Reichb. ex DC. FABACEAE

Donated by: Abou, F., Direction des Services Agricoles, IVRAZ, Station de Kamboinee, Burkina Faso; and Fournier, A., ORSTOM, 70-74 Route d' Aulnay, 93140 Bondy, France. remarks: Received through IBPGR, Rome, Italy. Received September 07, 1984.

PI 520621 donor id: 43. origin: Burkina Faso. collected: September 16, 1984. collector id: 43. locality: Field, Sandy soil, Tassamakot. Annual. Cultivated. Seed.

PI 520622 donor id: 79. origin: Burkina Faso. collected: September 28, 1984. collector id: 79. locality: Field, clay soil, 10km of Soum Atnahoud. Annual. Cultivated. Seed.

PI 520623 to 520731. Zea mays L. POACEAE Corn

**Donated by:** Kere, D., Direction des Services Agricoles, IVRAZ, Station de Kamboinee, Burkina Faso; and Zangre, R., Direction des Services Agricoles, IVRAZ, Station de Kamboinee, Burkina Faso.  
**remarks:** Received through IBPGR, Rome, Italy. Received August 19, 1983.

- PI 520623 donor id: 3. origin: Burkina Faso. collected: 1982. collector id: 3. locality: Djipologo village. remarks: Crop mixed with millet and sorghum. Maturity 4 months. Drought tolerance. Cultivated. Seed.
- PI 520624 donor id: 8. origin: Burkina Faso. collected: 1982. collector id: 8. locality: Bafor village, Dano Province. remarks: Maturity 3 months. Plants photosensitive. Resistant to Striga. Drought tolerance. Cultivated. Seed.
- PI 520625 donor id: 18. origin: Burkina Faso. collected: 1982. collector id: 18. locality: Plain, Uoti village, Dano Province. remarks: Crop mixed with sorghum. Maturity 3 months. Susceptible to Striga. Drought tolerance. Cultivated. Seed.
- PI 520626 donor id: 27. origin: Burkina Faso. collected: 1982. collector id: 27. locality: Upai Babora village, Dano Province. remarks: Maturity 3 months. Cultivated. Seed.
- PI 520627 donor id: 28. origin: Burkina Faso. collected: 1982. collector id: 28. locality: Upai Babora village, Dano Province. remarks: Maturity 3 1/2 months. Cultivated. Seed.
- PI 520628 donor id: 29. origin: Burkina Faso. collected: 1982. collector id: 29. locality: Upai Babora village, Dano Province. remarks: Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520629 donor id: 35. origin: Burkina Faso. collected: 1982. collector id: 35. locality: Tangsebla village, Dissin Province. remarks: Crop mixed with sorghum. Maturity 3 months. Resistant to Striga. Cultivated. Seed.
- PI 520630 donor id: 38. origin: Burkina Faso. collected: 1982. collector id: 38. locality: Zambo village, Dissin Province. remarks: Crop mixed with millet and sorghum. Maturity 2 months. Drought tolerance. Cultivated. Seed.



PI 520623 to 520731-continued

- PI 520631 donor id: 42. origin: Burkina Faso. collected: 1982. collector id: 42. locality: Dissin Basara village, Dissin Province. remarks: Crop mixed with sorghum. Maturity 2 1/2 months. Drought tolerance. Cultivated. Seed.
- PI 520632 donor id: 46. origin: Burkina Faso. collected: 1982. collector id: 46. locality: Bilbale village, Dissin Province. remarks: Crop mixed with sorghum. Maturity 3 months. Resistant to Striga. Drought tolerance. Cultivated. Seed.
- PI 520633 donor id: 50. origin: Burkina Faso. collected: 1982. collector id: 50. locality: Plain, Bamako village, Diebougouis Province. remarks: Maturity 3 months. Cultivated. Seed.
- PI 520634 donor id: 52. origin: Burkina Faso. collected: 1982. collector id: 52. locality: Nissebo village, Diebougouis Province. remarks: Crop mixed with millet. Maturity 4 months. Drought tolerance. Cultivated. Seed.
- PI 520635 donor id: 59. origin: Burkina Faso. collected: 1982. collector id: 59. locality: Dolo village, Diebougouis Province. remarks: Crop mixed with millet. Maturity 3 months. Cultivated. Seed.
- PI 520636 donor id: 62. origin: Burkina Faso. collected: 1982. collector id: 62. locality: Dolo village, Diebougouis Province. remarks: Crop mixed with sorghum and millet. Maturity 4 months. Cultivated. Seed.
- PI 520637 donor id: 77. origin: Burkina Faso. collected: 1982. collector id: 77. locality: Uputouna village, Naou Province. remarks: Crop mixed with sorghum. Maturity 3 months. Cultivated. Seed.
- PI 520638 donor id: 84. origin: Burkina Faso. collected: 1982. collector id: 84. locality: Taliere village, Naou Province. remarks: Crop mixed with sorghum and millet. Maturity 3 months. Cultivated. Seed.
- PI 520639 donor id: 86. origin: Burkina Faso. collected: 1982. collector id: 86. locality: Taliere village, Naou Province. remarks: Crop mixed with millet. Maturity 3 months. Cultivated. Seed.
- PI 520640 donor id: 89. origin: Burkina Faso. collected: 1982. collector id: 89. locality: Malba village, Naou Province. remarks: Crop mixed with sorghum and millet. Maturity 3 months. Wild. Seed.

PI 520623 to 520731-continued

- PI 520641 donor id: 106. origin: Burkina Faso. collected: 1982. collector id: 106. locality: Goonflura village, Nauo Province. remarks: Crop mixed with millet. Maturity 3 months. Wild. Seed.
- PI 520642 donor id: 116. origin: Burkina Faso. collected: 1982. collector id: 116. locality: Doudon village, Nauo Province. remarks: Crop mixed. Maturity 4 months. Cultivated. Seed.
- PI 520643 donor id: 117. origin: Burkina Faso. collected: 1982. collector id: 117. locality: Field, Doudon village, Nauo Province. remarks: Crop mixed. Maturity 3 months. Cultivated. Seed.
- PI 520644 donor id: 122. origin: Burkina Faso. collected: 1982. collector id: 122. locality: Toluaboua village, Nauo Province. remarks: Crop mixed. Maturity 4 months. Wild. Seed.
- PI 520645 donor id: 125. origin: Burkina Faso. collected: 1982. collector id: 125. locality: Corn field, Toluaboua village, Nauo Province. Drought tolerance. Wild. Seed.
- PI 520646 donor id: 134. origin: Burkina Faso. collected: 1982. collector id: 134. locality: Field, Niobini village, Gaoua Province. remarks: Crop mixed with millet. Maturity 3 months. Cultivated. Seed.
- PI 520647 donor id: 135. origin: Burkina Faso. collected: 1982. collector id: 135. locality: Niobini village, Gaoua Province. remarks: Crop mixed with sorghum. Maturity 2 1/2 months. Drought tolerance. Wild. Seed.
- PI 520648 donor id: 136. origin: Burkina Faso. collected: 1982. collector id: 136. locality: Niobini village, Gaoua Province. remarks: Crop mixed with sorghum. Maturity 4 months. Drought tolerance. Cultivated. Seed.
- PI 520649 donor id: 144. origin: Burkina Faso. collected: 1982. collector id: 144. locality: Holly village, Gaoua Province. remarks: Crop mixed with millet. Maturity 3 months. Resistant to Striga. Cultivated. Seed.
- PI 520650 donor id: 145. origin: Burkina Faso. collected: 1982. collector id: 145. locality: Holly village, Gaoua Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Drought tolerance. Wild. Seed.

PI 520623 to 520731-continued

- PI 520651 donor id: 160. origin: Burkina Faso. collected: 1982. collector id: 160. locality: Loropeni village, Gaoua Province. remarks: Crop mixed with millet. Maturity 4 months. Wild. Seed.
- PI 520652 donor id: 171. origin: Burkina Faso. collected: 1982. collector id: 171. locality: Loropeni village, Gaoua Province. remarks: Crop mixed. Maturity 2 months. Drought tolerance. Wild. Seed.
- PI 520653 donor id: 189. origin: Burkina Faso. collected: 1982. collector id: 189. locality: Mal village, Gaoua Province. remarks: Crop mixed. Maturity 3 months. Resistant to Striga. Drought tolerance. Wild. Seed.
- PI 520654 donor id: 190. origin: Burkina Faso. collected: 1982. collector id: 190. locality: Mal village, Gaoua Province. remarks: Crop mixed. Maturity 2 months. Resistant to Striga. Drought tolerance. Wild. Seed.
- PI 520655 donor id: 198. origin: Burkina Faso. collected: 1982. collector id: 198. locality: Plain, Mal village, Gaoua Province. remarks: Crop mixed. Maturity 4 months. Drought tolerance. Cultivated. Seed.
- PI 520656 donor id: 199. origin: Burkina Faso. collected: 1982. collector id: 199. locality: Plain, Mal village, Gaoua Province. remarks: Crop mixed. Maturity 3 months. Drought tolerance. Cultivated. Seed.
- PI 520657 donor id: 205. origin: Burkina Faso. collected: 1982. collector id: 205. locality: Wownkonto village, Sindou Province. remarks: Crop mixed. Maturity 4 months. Cultivated. Seed.
- PI 520658 donor id: 212. origin: Burkina Faso. collected: 1982. collector id: 212. locality: Douna village, Sindou Province. remarks: Crop mixed. Maturity 3 months. Cultivated. Seed.
- PI 520659 donor id: 215. origin: Burkina Faso. collected: 1982. collector id: 215. locality: Field, Douna village, Sindou Province. remarks: Crop mixed. Maturity 2-4 months. Cultivated. Seed.
- PI 520660 donor id: 219. origin: Burkina Faso. collected: 1982. collector id: 219. locality: Kaoura village, Sindou Province. remarks: Crop mixed. Maturity 4 months. Resistant to Striga. Cultivated. Seed.

PI 520623 to 520731-continued

- PI 520661 donor id: 220. origin: Burkina Faso. collected: 1982. collector id: 220. locality: Kaoura village, Sindou Province. remarks: Crop mixed. Maturity 3 months. Resistant to Striga. Cultivated. Seed.
- PI 520662 donor id: 230. origin: Burkina Faso. collected: 1982. collector id: 230. locality: Field, Kangora village, Sindou Loumana Province. remarks: Crop mixed. Maturity 4 months. Caterpillar sensitive. Cultivated. Seed.
- PI 520663 donor id: 236. origin: Burkina Faso. collected: 1982. collector id: 236. locality: Field, Niankorodougou village, Sindou Loumana Province. remarks: Crop mixed with millet and sorghum. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520664 donor id: 237. origin: Burkina Faso. collected: 1982. collector id: 237. locality: Corn field, Niankorodougou village, Sindou Loumana Province. remarks: Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520665 donor id: 245. origin: Burkina Faso. collected: 1982. collector id: 245. locality: Field, Niankorodougou village, Sindou Loumana Province. remarks: Crop mixed. Maturity 3 months. Resistant to Striga. Cultivated. Seed.
- PI 520666 donor id: 252. origin: Burkina Faso. collected: 1982. collector id: 252. locality: Field, Loumana village, Sindou Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520667 donor id: 259. origin: Burkina Faso. collected: 1982. collector id: 259. locality: Field, Banguera village, Sindou Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520668 donor id: 260. origin: Burkina Faso. collected: 1982. collector id: 260. locality: Field, Banguera village, Sindou Province. remarks: Crop mixed. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520669 donor id: 261. origin: Burkina Faso. collected: 1982. collector id: 261. locality: Field, Banguera village, Sindou Province. remarks: Crop mixed. Maturity 4 months. Resistant to Striga. Cultivated. Seed.

PI 520623 to 520731-continued

- PI 520670 donor id: 262. origin: Burkina Faso. collected: 1982. collector id: 262. locality: Field, Banguera village, Sindou Province. remarks: Crop mixed. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520671 donor id: 266. origin: Burkina Faso. collected: 1982. collector id: 266. locality: Field, Noussou village, Sindou Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520672 donor id: 274. origin: Burkina Faso. collected: 1982. collector id: 274. locality: Field, Dinaoro village, Sindou Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520673 donor id: 275. origin: Burkina Faso. collected: 1982. collector id: 275. locality: Field, Dinaoro village, Sindou Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520674 donor id: 282. origin: Burkina Faso. collected: 1982. collector id: 282. locality: Field, Gouindougouba village, Soubaua Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520675 donor id: 286. origin: Burkina Faso. collected: 1982. collector id: 286. locality: Field, Dakoro village, Soubaua Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520676 donor id: 287. origin: Burkina Faso. collected: 1982. collector id: 287. locality: Field, Dauoro village, Soubaua Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520677 donor id: 294. origin: Burkina Faso. collected: 1982. collector id: 294. locality: Soubaua village, Soubaua Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520678 donor id: 244. origin: Burkina Faso. collected: 1982. collector id: 244. Seed.

PI 520623 to 520731-continued

- PI 520679 donor id: 306. origin: Burkina Faso. collected: 1982. collector id: 306. locality: Toundoura village, Niangdoko Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520680 donor id: 307. origin: Burkina Faso. collected: 1982. collector id: 307. locality: Toundoura village, Niangdoko Province. remarks: Crop mixed with millet. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520681 donor id: 319. origin: Burkina Faso. collected: 1982. collector id: 319. locality: Field, Uimini village, Niangdoko Province. remarks: Crop mixed with millet. Maturity 3-3 1/2 months. Resistant to Striga. Cultivated. Seed.
- PI 520682 donor id: 419. origin: Burkina Faso. collected: 1982. collector id: 419. locality: Tengrela village, Bonfora Province. remarks: Crop mixed with millet and sorghum. Maturity 3 months. Resistant to Striga. Cultivated. Seed.
- PI 520683 donor id: 422. origin: Burkina Faso. collected: 1982. collector id: 422. locality: Mangodara village, Sideru Province. remarks: Crop mixed with millet and sorghum. Maturity 4 months. Cultivated. Seed.
- PI 520684 donor id: 423. origin: Burkina Faso. collected: 1982. collector id: 423. locality: Mangodara village, Sideru Province. remarks: Crop mixed with millet and sorghum. Maturity 3 months. Cultivated. Seed.
- PI 520685 donor id: 424. origin: Burkina Faso. collected: 1982. collector id: 424. locality: Mangodara village, Sideru Province. remarks: Crop mixed with millet and sorghum. Maturity 4 months. Cultivated. Seed.
- PI 520686 donor id: 425. origin: Burkina Faso. collected: 1982. collector id: 425. locality: Mangodara village, Sideru Province. remarks: Crop mixed with millet and sorghum. Maturity 4 1/2 months. Cultivated. Seed.
- PI 520687 donor id: 426. origin: Burkina Faso. collected: 1982. collector id: 426. locality: Mangodara village, Sideru Province. remarks: Crop mixed with millet and sorghum. Maturity 4 months. Cultivated. Seed.

PI 520623 to 520731-continued

- PI 520688 donor id: 427. origin: Burkina Faso. collected: 1982. collector id: 427. locality: Plain, corn field, Bama village, Bobo Province. remarks: Maturity 3 months. Cultivated. Seed.
- PI 520689 donor id: 433. origin: Burkina Faso. collected: 1982. collector id: 433. locality: Corn field, Samandeni village, Bobo Province. remarks: Maturity 2 months. Cultivated. Seed.
- PI 520690 donor id: 435. origin: Burkina Faso. collected: 1982. collector id: 435. locality: Corn field, Samandeni village, Bobo Province. remarks: Maturity 2 months. Resistant to Striga. Drought tolerance. Cultivated. Seed.
- PI 520691 donor id: 439. origin: Burkina Faso. collected: 1982. collector id: 439. locality: Corn field, Karessokovra village, Bobo Province. remarks: Maturity 2 months. Drought tolerance. Cultivated. Seed.
- PI 520692 donor id: 454. origin: Burkina Faso. collected: 1982. collector id: 454. locality: Siunuoro village, Bobo Province. remarks: Crop mixed. Maturity 4 months. Cultivated. Seed.
- PI 520693 donor id: 455. origin: Burkina Faso. collected: 1982. collector id: 455. locality: Corn field, Siunuoro village, Bobo Province. remarks: Maturity 2 months. Cultivated. Seed.
- PI 520694 donor id: 456. origin: Burkina Faso. collected: 1982. collector id: 456. locality: Fo village, Bobo Province. remarks: Crop mixed. Maturity 3 months. Drought tolerance. Cultivated. Seed.
- PI 520695 donor id: 461. origin: Burkina Faso. collected: 1982. collector id: 461. locality: Fo village, Bobo Province. remarks: Crop mixed. Maturity 3 months. Resistant to Striga. Drought tolerance. Cultivated. Seed.
- PI 520696 donor id: 462. origin: Burkina Faso. collected: 1982. collector id: 462. locality: Fo village, Bobo Province. remarks: Crop mixed. Maturity 3 months. Resistant to Striga. Drought tolerance. Cultivated. Seed.
- PI 520697 donor id: 467. origin: Burkina Faso. collected: 1982. collector id: 467. locality: Corn field, Morolaba village, Norala Province. remarks: Maturity 3 months. Cultivated. Seed.

PI 520623 to 520731-continued

- PI 520698 donor id: 471. origin: Burkina Faso. collected: 1982. collector id: 471. locality: Corn field, Morolaba village, Norala Province. remarks: Maturity 4 months. Cultivated. Seed.
- PI 520699 donor id: 475. origin: Burkina Faso. collected: 1982. collector id: 475. locality: Corn field, Famberla village, Norala Province. Cultivated. Seed.
- PI 520700 donor id: 476. origin: Burkina Faso. collected: 1982. collector id: 476. locality: Good soil, Famberla village, Norala Province. remarks: Maturity 3 months. Cultivated. Seed.
- PI 520701 donor id: 480. origin: Burkina Faso. collected: 1982. collector id: 480. locality: Good soil, Famberla village, Norala Province. remarks: Crop mixed. Maturity 3 months. Cultivated. Seed.
- PI 520702 donor id: 481. origin: Burkina Faso. collected: 1982. collector id: 481. locality: Good soil, Famberla village, Norala Province. remarks: Crop mixed with millet and sorghum. Maturity 2 1/4 months. Cultivated. Seed.
- PI 520703 donor id: 486. origin: Burkina Faso. collected: 1982. collector id: 486. locality: N'Dorla village, N'Dorla Province. remarks: Crop mixed with millet and sorghum. Maturity 3 1/2 months. Drought tolerance. Cultivated. Seed.
- PI 520704 donor id: 488. origin: Burkina Faso. collected: 1982. collector id: 488. locality: Corn field, Kourouma village, N'Dorla Province. remarks: Maturity 3 1/2 months. Resistant to Striga. Drought tolerance. Cultivated. Seed.
- PI 520705 donor id: 494. origin: Burkina Faso. collected: 1982. collector id: 494. locality: Corn field, Ngoralami village, N'Dorla. remarks: Crop mixed. Maturity 3 months. Cultivated. Seed.
- PI 520706 donor id: 499. origin: Burkina Faso. collected: 1982. collector id: 499. locality: Corn field, Ngoralami village, N'Dorla Province. remarks: Maturity 3 1/2 months. Resistant to Striga. Drought tolerance. Cultivated. Seed.



PI 520623 to 520731-continued

- PI 520707 donor id: 507. origin: Burkina Faso. collected: 1982. collector id: 507. locality: Sourou village, N'Dorola Province. remarks: Crop mixed with sorghum and millet. Maturity 3 months. Plants photosensitive. Resistant to Striga. Drought tolerance. Cultivated. Seed.
- PI 520708 donor id: 509. origin: Burkina Faso. collected: 1982. collector id: 509. locality: Sourou village, N'Dorola Province. remarks: Crop mixed with sorghum and millet. Maturity 4 months. Plants photosensitive. Cultivated. Seed.
- PI 520709 donor id: 512. origin: Burkina Faso. collected: 1982. collector id: 512. locality: Samoragouan village, N'Dorola Province. remarks: Crop mixed. Maturity 4 months. Cultivated. Seed.
- PI 520710 donor id: 513. origin: Burkina Faso. collected: 1982. collector id: 513. locality: Samoragouan village, N'Dorola Province. remarks: Crop mixed. Maturity 2 1/2 months. Drought tolerance. Cultivated. Seed.
- PI 520711 donor id: 520. origin: Burkina Faso. collected: 1982. collector id: 520. locality: Sikorola village, N'Dorola Province. remarks: Crop mixed. Maturity 4 months. Cultivated. Seed.
- PI 520712 donor id: 521. origin: Burkina Faso. collected: 1982. collector id: 521. locality: Siuorola village, N'Dorola Province. remarks: Crop mixed. Maturity 3 months. Cultivated. Seed.
- PI 520713 donor id: 523. origin: Burkina Faso. collected: 1982. collector id: 523. locality: Mondon village, Banfora Province. remarks: Crop mixed. Maturity 4 months. Cultivated. Seed.
- PI 520714 donor id: 537. origin: Burkina Faso. collected: 1982. collector id: 537. locality: Corn or mixed corn field, Samogobini village, Orodara Province. remarks: Crop mixed. Maturity 4 months. Plants photosensitive. Cultivated. Seed.
- PI 520715 donor id: 541. origin: Burkina Faso. collected: 1982. collector id: 541. locality: Uangala village, Orodara Province. remarks: Crop mixed with millet. Maturity 4 months. Plants photosensitive. Cultivated. Seed.

PI 520623 to 520731-continued

- PI 520716 donor id: 546. origin: Burkina Faso. collected: 1982. collector id: 546. locality: Uangala village, Orodara Province. remarks: Crop mixed with sorghum and millet. Maturity 3 1/2 months. Plants photosensitive. Cultivated. Seed.
- PI 520717 donor id: 550. origin: Burkina Faso. collected: 1982. collector id: 550. locality: Ouleni village, Orodara Province. remarks: Crop mixed with sorghum and millet. Maturity 3 1/2 months. Drought tolerance. Cultivated. Seed.
- PI 520718 donor id: 551. origin: Burkina Faso. collected: 1982. collector id: 551. locality: Good soil, Ouleni village, Orodara Province. remarks: Crop mixed with sorghum and millet. Maturity 2 1/2 months. Resistant to Striga. Cultivated. Seed.
- PI 520719 donor id: 558. origin: Burkina Faso. collected: 1982. collector id: 558. locality: Sifarasso village, Orodara Province. remarks: Crop mixed with millet. Maturity 3 1/2 months. Cultivated. Seed.
- PI 520720 donor id: 561. origin: Burkina Faso. collected: 1982. collector id: 561. locality: Sifarasso village, Orodara Province. remarks: Crop mixed with millet. Maturity 3 months. Cultivated. Seed.
- PI 520721 donor id: 582. origin: Burkina Faso. collected: 1982. collector id: 582. locality: Djigouera village, Orodara Province. remarks: Crop mixed with millet. Maturity 5 months. Plants photosensitive. Resistant to Striga. Cultivated. Seed.
- PI 520722 donor id: 584. origin: Burkina Faso. collected: 1982. collector id: 584. locality: Lidara village, Orodara Province. remarks: Crop mixed. Maturity 4 months. Resistant to Striga. Cultivated. Seed.
- PI 520723 donor id: 599. origin: Burkina Faso. collected: 1982. collector id: 599. locality: Boande village, Zobo Province. remarks: Crop mixed with sorghum. Maturity 3 months. Cultivated. Seed.
- PI 520724 donor id: 603. origin: Burkina Faso. collected: 1982. collector id: 603. locality: Uoumi village, Zobo Province. remarks: Crop mixed. Cultivated. Seed.
- PI 520725 donor id: 613. origin: Burkina Faso. collected: 1982. collector id: 613. locality: Uourignon village, Toussiara Province. remarks: Crop mixed with sorghum. Maturity 3 months. Cultivated. Seed.

PI 520623 to 520731-continued

- PI 520726 donor id: 618. origin: Burkina Faso. collected: 1982. collector id: 618. locality: Corn field, Uourignon village, Toussiara Province. remarks: Maturity 3 months. Resistant to Striga. Drought tolerance. Cultivated. Seed.
- PI 520727 donor id: 619. origin: Burkina Faso. collected: 1982. collector id: 619. locality: Peni village, Toussiara Province. remarks: Crop mixed with sorghum and millet. Maturity 4 months. Plants photosensitive. Resistant to Striga. Cultivated. Seed.
- PI 520728 donor id: 630. origin: Burkina Faso. collected: 1982. collector id: 630. locality: Yanfaga village, Toussiara Province. remarks: Crop mixed with sorghum and millet. Plants photosensitive. Resistant to Striga. Cultivated. Seed.
- PI 520729 donor id: 635. origin: Burkina Faso. collected: 1982. collector id: 635. locality: Soumousso village, Bobe Dioulasso Province. remarks: Crop mixed with sorghum. Maturity 4 months. Plants photosensitive. Cultivated. Seed.
- PI 520730 donor id: 642. origin: Burkina Faso. collected: 1982. collector id: 642. locality: Dogotioro (Uarankasso) village, Bobe Dioulasso Province. remarks: Crop mixed with sorghum. Maturity 4 months. Cultivated. Seed.
- PI 520731 donor id: 647. origin: Burkina Faso. collected: 1982. collector id: 647. locality: Dan village, Bobe Dioulasso Province. remarks: Crop mixed with sorghum. Maturity 3 months. Resistant to Striga. Drought tolerance. Cultivated. Seed.

PI 520732 to 520733. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Lim, S.M., USDA-ARS, Dept. of Plant Pathology, University of Illinois, Urbana, Illinois, United States. Received May 25, 1988.

- PI 520732 donor id: L-B. origin: Korea, Republic of. locality: Farmer, Hwasung Gun, Gyeonggi Do. remarks: Vegetable type grown for generations by farmer's family. Cultivated. Seed.
- PI 520733 donor id: L-W. origin: Korea, Republic of. locality: Farmer, Hwasung Gun, Gyeonggi Do. remarks: Vegetable type grown for generations by farmer's family. Cultivated. Seed.

PI 520734 to 520747. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Anthony, K.R.M., Overseas Development Administration, Eland House, Stag Place, London, England, United Kingdom. remarks: Received through IBPGR, Rome. Received December 15, 1983.

- PI 520734 donor id: VB 1. origin: UNKNOWN. cultivar: BARBADOS SEA ISLAND (BSI). other id: VB 1. source: Antigua. Cultivar. Seed.
- PI 520735 donor id: VB 2. origin: UNKNOWN. cultivar: V135 TYPE 18. other id: VB 2. source: Antigua. Cultivar. Seed.
- PI 520736 donor id: VB 3. origin: UNKNOWN. cultivar: V135 (30) 46. other id: VB 3. source: Antigua. Cultivar. Seed.
- PI 520737 donor id: VB 4. origin: UNKNOWN. cultivar: V135 (37) 11. other id: VB 4. source: Antigua. Cultivar. Seed.
- PI 520738 donor id: VB 5. origin: UNKNOWN. cultivar: MSI 4208. other id: VB 5. source: Antigua. Cultivar. Seed.
- PI 520739 donor id: VB 6. origin: UNKNOWN. cultivar: MSI 4210. other id: VB 6. source: Antigua. Cultivar. Seed.
- PI 520740 donor id: VB 7. origin: UNKNOWN. cultivar: VH8 4602. other id: VB 7. source: Antigua. Cultivar. Seed.
- PI 520741 donor id: VB 8. origin: UNKNOWN. cultivar: VH8 4620. other id: VB 8. source: Antigua. Cultivar. Seed.
- PI 520742 donor id: VB 9. origin: UNKNOWN. cultivar: VH8 4621. other id: VB 9. source: Antigua. Cultivar. Seed.
- PI 520743 donor id: VB 10. origin: UNKNOWN. cultivar: VH8 4623. other id: VB 10. source: Antigua. Cultivar. Seed.
- PI 520744 donor id: VB 11. origin: UNKNOWN. cultivar: VH10 4415. other id: VB 11. source: Antigua. Cultivar. Seed.
- PI 520745 donor id: VB 12. origin: UNKNOWN. cultivar: VH10 4416. other id: VB 12. source: Antigua. Cultivar. Seed.
- PI 520746 donor id: VB 13. origin: UNKNOWN. cultivar: VH10 4419. other id: VB 13. source: Antigua. Cultivar. Seed.
- PI 520747 donor id: VB 14. origin: UNKNOWN. cultivar: RED SEA ISLAND (RSI). other id: VB 14. source: Antigua. Cultivar. Seed.

PI 520748. *Beta vulgaris* L. CHENOPODIACEAE Sugarbeet

Donated by: Lewellen, R.T., USDA-ARS, U.S. Agr. Res. Station, Salinas, California, United States. Received July 15, 1988.

donor id: C600CMS. origin: United States. pedigree: MS of NB1/C5600. other id: GP-129. group: CSR-SUGARBEET. remarks: Genotypically plants BB, rr, MM, and S'S' with excellent O-type characteristics. Bolting resistant. disease resistance: Curly top virus. Annual. Breeding Material. Seed.

PI 520749. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Pedersen, J.F., USDA-ARS, Dept. of Agronomy, University of Kentucky, Lexington, Kentucky, United States; and McVeigh, K.J., Willamette Valley Plant Breeders, Inc., Brownsville, Oregon, United States; and Edminster, C.W., International Seeds Inc., Halsey, Oregon, United States. Received July 15, 1988.

donor id: ISI-TTFL. origin: United States. cultivar: CAJUN. pedigree: Sel. from AU Triumph for late anthesis. other id: CV-36. group: CSR-FESCUE. remarks: Anthesis 5-7 days later and more uniform than AU Triumph. Seed yield high. Adapted to Oregon seed production and early forage yield in Alabama, Georgia, and Louisiana. Low endophyte (*Acremonium coenophialum*) cultivar. Perennial. Cultivar. Seed.

PI 520750. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Bourland, F.M., Dept. of Agronomy, University of Arkansas, Fayetteville, Arkansas, United States; and White, B.W., Dept. of Agronomy, Mississippi State University, Mississippi State, Mississippi, United States. Received July 15, 1988.

donor id: Miscot 7918. origin: United States. pedigree: Stoneville 825/LEBO-2-78. other id: GP-362. group: CSR-COTTON. other id: 7918-1-2. remarks: Plants nectariless. disease resistance: All known races of bacterial blight. Breeding Material. Seed.

PI 520751 to 520752. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Bourland, F.M., Dept. of Agronomy, University of Arkansas, Fayetteville, Arkansas, United States; and White, B.W., Dept. of Agronomy, Mississippi State University, Mississippi State, Mississippi, United States. remarks: Germplasm developed by the Mississippi Agricultural and Forestry Experiment Station. Received July 15, 1988.

PI 520751 to 520752-continued

PI 520751 donor id: Miscot 7803-51. origin: United States.  
pedigree: DES 56/MAR-22-74. other id: GP-363. group:  
CSR-COTTON. other id: 7803-51-1. disease resistance:  
All known races of bacterial blight. insect resistance:  
Tobacco budworm (*Heliothis virescens*). Breeding  
Material. Seed.

PI 520752 donor id: Miscot 7803-52. origin: United States.  
pedigree: DES 56/MAR-22-74. other id: GP-364. group:  
CSR-COTTON. other id: 7803-52-6-4. disease resistance:  
All known races of bacterial blight. insect resistance:  
Tobacco budworm (*Heliothis virescens*). Breeding  
Material. Seed.

PI 520753. *Lespedeza cuneata* (Dum.-Cours.) G. Don FABACEAE Sericea  
lespedeza

Donated by: Mosjidis, J.A., Donnelly, E.D., Dept. of Agronomy &  
Soils, Alabama Agric. Exp. Station, Auburn, Alabama, United States.  
Received July 15, 1988.

donor id: 73-162-19. origin: United States. cultivar:  
AU DONNELLY. pedigree: Alabama 2193/Beltsville  
23-864//2\* Serala. other id: CV-12. group:  
CSR-LESPEDEZA. remarks: Growth habit upright with early  
spring growth. Yield less than Serala but greater than Au  
Lotan in yield, digestible dry matter, and crude protein,  
about same level of tannin. Adapted to Alabama, Georgia,  
and probably to other lespedeza growing areas. disease  
resistance: Tolerant to *Rhizoctonia* spp. May be damaged  
by late attacks in areas of high humidity. Perennial.  
Cultivar. Seed.

PI 520754. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Currin III, R.E., Dept. of Agronomy & Soils, Pee Dee  
Res. & Educ. Center, Florence, South Carolina, United States; and  
Fortnum, B.A., Dept. of Plant Path. and Physio., Pee Dee Res. &  
Educ. Center, Florence, South Carolina, United States; and Parrott,  
W.M., Pee Dee Res. & Educ. Center, Florence, South Carolina, United  
States. Received July 15, 1988.

donor id: PD-48. origin: United States. cultivar:  
CLEMSON PD 48. pedigree: 68-514//Coker 139/NC 95.  
remarks: Plants flue-cured type, about 129cm tall with 18  
harvestable leaves when topped. Stalks medium-sized.  
Leaves cure well with orange color, high yield. Flowers  
62 days after transplanting. Adapted to flue cured  
growing region. disease resistance: Moderate to black  
shank, bacterial wilt, & fusarium wilt. Cultivar. Seed.

PI 520755. *Trifolium repens* L. var. *repens* FABACEAE White clover

Donated by: Gibson, P.B., USDA-ARS, Clemson University, Clemson, South Carolina, United States. Received July 15, 1988.

donor id: SRVR. origin: United States. pedigree: Polycross from 44 clones. other id: GP-2. group: CSR-CLOVER, WHITE. remarks: Southern Regional Virus Resistant (SRVR). Yield high especially in second year. disease resistance: Peanut stunt virus, clover yellow vein virus, alfalfa mosaic. Breeding Material. Seed.

PI 520756 to 520760. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Morris, C.F., Paulsen, G.M., Dept. of Agronomy, Kansas State University, Manhattan, Kansas, United States. Received July 15, 1988.

PI 520756 donor id: MW10. origin: United States. pedigree: KS75216/Clark's Cream. other id: GP-288. group: CSR-WHEAT. remarks: Plants 68cm tall. Improved plant type. Vernalization requirement medium. Inflorescence awnless. Seeds hard, white, resistant to preharvest sprouting. Winter Annual. Breeding Material. Seed.

PI 520757 donor id: MW16. origin: United States. pedigree: KS82W445/Clark's Cream. other id: GP-289. group: CSR-WHEAT. remarks: Plants 91cm tall. Improved plant type. Vernalization requirement high. Inflorescence awned. Seeds hard, white, resistant to preharvest sprouting. Winter Annual. Breeding Material. Seed.

PI 520758 donor id: MW18. origin: United States. pedigree: KS82W404/Clark's Cream. other id: GP-290. group: CSR-WHEAT. remarks: Plants 68cm tall. Improved plant type. Vernalization requirement medium. Inflorescence mixed awned and awnless. Seeds hard, white, resistant to preharvest sprouting. Winter Annual. Breeding Material. Seed.

PI 520759 donor id: MW28. origin: United States. pedigree: KS82W439/Clark's Cream. other id: GP-291. group: CSR-WHEAT. remarks: Plants 56cm tall. Improved plant type. Vernalization requirement low. Inflorescence awned. Seeds hard, white, resistant to preharvest sprouting. Winter Annual. Breeding Material. Seed.

PI 520760 donor id: MW33. origin: United States. pedigree: KS82W450/Clark's Cream. other id: GP-292. group: CSR-WHEAT. remarks: Plants 63cm tall. Improved plant type. Vernalization requirement low. Inflorescence awned. Seeds hard, white, resistant to preharvest sprouting. Winter Annual. Breeding Material. Seed.

PI 520761 to 520769. Zea mays L. POACEAE Corn

**Donated by:** Eberhart, S.A., National Seed Storage Laboratory, USDA-ARS, Colorado State University, Ft. Collins, Colorado, United States; and Briggs, R.W., Funk Seed International, 1300 W. Washington St., Bloomington, Illinois, United States. **remarks:** Developed and released by Funk Seeds International. Received July 15, 1988.

PI 520761 **donor id:** GS07(R)C2. **origin:** United States. **pedigree:** Sel. from BS7(S)C1 by two cycles of reciprocal recurrent selection. **other id:** GP-184. **group:** CSR-MAIZE. **remarks:** Yellow dent synthetic. AES maturity 400. Primary selection traits increased yield and reduced root and stalk lodging. Breeding Material. Seed.

PI 520762 **donor id:** GS17CO. **origin:** United States. **pedigree:** Tuxpeno P.B. C7/RSSSC. **other id:** GP-185. **group:** CSR-MAIZE. **remarks:** Yellow dent synthetic. AES maturity 1200. **disease resistance:** Tolerance to maize dwarf mosaic and chlorotic dwarf viruses. Breeding Material. Seed.

PI 520763 **donor id:** GS34(R)C2. **origin:** United States. **pedigree:** BSCB1(R)C7, BS11(FR)C3, and BS12(HI)C6\*/EC573(R12)C4. **other id:** GP-186. **group:** CSR-MAIZE. **remarks:** Yellow semi-flint synthetic. AES maturity 1200. Selected for increased yield, reduced plant height, and reduced root and stalk lodging. Breeding Material. Seed.

PI 520764 **donor id:** GS11(R)C1. **origin:** Mexico. **pedigree:** Kitale II(R11)C6\*/GS17CO. **other id:** GP-187. **group:** CSR-MAIZE. **locality:** Guadalajara. **remarks:** White dent synthetic. AES maturity later than 1100. Selected for reduced plant height, root and stalk lodging, and for increased yield. **disease resistance:** Common rust (*Puccinia sorghi*). Northern corn leaf blight (*Exserohilum turcicum*). Ear rot (*Fusarium* sp.). Breeding Material. Seed.

PI 520765 **donor id:** GS12(R)C1. **origin:** Mexico. **pedigree:** ETO/BS16//\*EC573(R12)C6. **other id:** GP-188. **group:** CSR-MAIZE. **locality:** Guadalajara. **remarks:** White dent synthetic. AES maturity later than 1200. Selected for increased yield and reduced plant height. **disease resistance:** Common rust (*Puccinia sorghi*). Northern corn leaf blight (*Exserohilum turcicum*). Breeding Material. Seed.



PI 520761 to 520769-continued

- PI 520766 **donor id:** GS16(R)C1. **origin:** Mexico. **pedigree:** Recurrent reciprocal selection in ETO Leaf and Tassel Reduction C6 and ETO (IPTT)C2 synthetics. **other id:** GP-189. **group:** CSR-MAIZE. **locality:** Guadalajara. **remarks:** White semi-flint synthetic. AES maturity later than 1200. Selected for increased yield. Breeding Material. Seed.
- PI 520767 **donor id:** GS73CO. **origin:** Mexico. **pedigree:** GS12(R)C1\*/two Funk Seeds southern yellow USA inbreds. **other id:** GP-190. **group:** CSR-MAIZE. **locality:** Guadalajara. **remarks:** Yellow/white flint synthetic. AES maturity later than 1200. **disease resistance:** Common rust (*Puccinia sorghi*). Northern corn leaf blight (*Exserohilum turcicum*). Breeding Material. Seed.
- PI 520768 **donor id:** Early Butler. **origin:** United States. **other id:** GP-191. **group:** CSR-MAIZE. **other id:** Agway-76. **remarks:** Yellow dent, open-pollinated strain. Plants high yielding with fast dry down and susceptibility to stalk lodging. Originally from Agway, Inc., Syracuse, New York. Breeding Material. Seed.
- PI 520769 **donor id:** Early Butler Penn Farmer Cullo. **origin:** United States. **other id:** GP-192. **group:** CSR-MAIZE. **remarks:** Yellow dent strain of Early Butler. AES maturity 200. Plants high yielding, fast dry down and susceptible to stalk lodging. Originally from Hoffman Seed Co., Landisville, Pennsylvania. Breeding Material. Seed.

PI 520770 to 520773. *Zea mays* L. POACEAE Corn

**Donated by:** Coors, J.G., Mardones, M.C., Dept. of Agronomy, University of Wisconsin, Madison, Wisconsin, United States. Received July 15, 1988.

- PI 520770 **donor id:** W552. **origin:** United States. **pedigree:** W153R\*2/San Geronimo. **other id:** PL-111. **group:** CSR-MAIZE. **other id:** W62582-6. **remarks:** Early season vigor and health excellent. Stalk strength good. AES maturity 400. Ears 4.2cm in diameter with 18 to 20 kernel rows. Source for improving early vigor and stalk quality. **disease resistance:** Moderate to good to most leaf diseases. **insect resistance:** Second brood of European corn borer (*Ostrinia nubilalis*). Breeding Material. Seed.

PI 520770 to 520773-continued

PI 520771 donor id: W570. origin: United States. pedigree: B46/A635, 5s. other id: PL-112. group: CSR-MAIZE. other id: W0986. remarks: AES maturity 600. Stalk lodging and crushing ratings good to excellent. disease resistance: Mod.-good to northern corn leaf blight (*Exserohilum turcicum*). Southern corn leaf blight (*Bipolaris maydis*). Leaf diseases. Breeding Material. Seed.

PI 520772 donor id: W572. origin: United States. pedigree: B46/A635, 5s. other id: PL-113. group: CSR-MAIZE. other id: W01203. remarks: AES maturity 500. Root pulling resistance high. disease resistance: Some to leaf diseases. Breeding Material. Seed.

PI 520773 donor id: W576. origin: United States. pedigree: Sel. from Mol7 composite population. other id: PL-114. group: CSR-MAIZE. other id: W17D-282-3. remarks: AES maturity 700-800. Ear and plant heights above average. Combining ability good, cross with strong-stalked inbreds. disease resistance: Good to southern corn leaf blight (*Bipolaris maydis*). Good to Diploidia stalk rot (*Diploidia maydis*). Breeding Material. Seed.

PI 520774. *Zea mays* L. POACEAE Corn

Donated by: Sisco, P.H., USDA-ARS, Dept. of Crop Science, North Carolina State University, Raleigh, North Carolina, United States; and Goodman, M.M., Dept. of Crop Science, North Carolina State University, Raleigh, North Carolina, United States; and Thompson, D.L., USDA-ARS, Dept. of Crop Science, North Carolina State University, Raleigh, North Carolina, United States. Received July 15, 1988.

donor id: NC264. origin: United States. pedigree: Inbred SC 276Q\*/3\*Gaspe Flint. other id: PL-115. group: CSR-MAIZE. remarks: Yellow dent. Plants vigorous, 191cm to tassel tip and 78cm to base of upper ear. Strong two-eared tendency. Leaves waxy, medium green with chlorotic spotting. Contains restorer genes for cms-C and cms-S but not for cms-T. Ears white-cobbed, 12cm in length with 14 kernel rows. Maturity AES700. Potential as a parent of productive hybrids with gray leaf spot resistance. disease resistance: Gray leaf spot (*Cercospora zae-maydis*). Breeding Material. Seed.

PI 520775 to 520803. *Sorghum arundinaceum* (Desv.) Stapf POACEAE  
Sorghum

Donated by: Denton, I.R., IBPGR, Rome, Italy; and Toll, J.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received 1978.

- PI 520775 donor id: 015A. origin: Kenya. collected: 1978. collector id: 015A. other id: NSL 184254. locality: Naera village, Busia, Western Province. remarks: Weed. received as: *S. verticilliflora*. Wild. Seed.
- PI 520776 donor id: 016A. origin: Kenya. collected: 1978. collector id: 016A. other id: NSL 184255. locality: Angorom village, Busia, Western Province. received as: *S. verticilliflora*. Wild. Seed.
- PI 520777 donor id: 017A. origin: Kenya. collected: 1978. collector id: 017A. other id: NSL 184257. locality: Angorom village, Busia, Western Province. received as: *S. verticilliflora*. Wild. Seed.
- PI 520778 donor id: 027A. origin: Kenya. local name: Madeyo. collected: 1978. collector id: 027A. other id: NSL 184256. locality: Maduwa village, Busia, Western Province. received as: *S. verticilliflora*. Wild. Seed.
- PI 520779 donor id: 034A. origin: Kenya. local name: Amalokolo. collected: 1978. collector id: 034A. other id: NSL 184258. locality: Bulimbo village, Kakamega, Western Province. received as: *S. verticilliflora*. Wild. Seed.
- PI 520780 donor id: J2. origin: Kenya. local name: Amakali. collected: 1978. collector id: J2. other id: NSL 184259. locality: Malava village, Kakamega, Western Province. received as: *S. verticilliflora*. Wild. Seed.
- PI 520781 donor id: 067. origin: Kenya. local name: Esamo. collected: 1978. collector id: 067. other id: NSL 184260. locality: Bomwanja village, Kisii, Nyanza Province. received as: *S. verticilliflora*. Wild. Seed.
- PI 520782 donor id: 068. origin: Kenya. local name: Esamo. collected: 1978. collector id: 068. other id: NSL 184261. locality: Bomwanja village, Kisii, Nyanza Province. received as: *S. verticilliflora*. Wild. Seed.
- PI 520783 donor id: 083. origin: Kenya. collected: 1978. collector id: 083. other id: NSL 184262. locality: Lambwe V. village, S. Nyanza, Nyanza Province. received as: *S. verticilliflorum*. Wild. Seed.

PI 520775 to 520803-continued

- PI 520784 donor id: 084. origin: Kenya. collected: 1978.  
collector id: 084. other id: NSL 184263. locality:  
Lambwe V. village, S. Nyanza, Nyanza Province. received  
as: *S. verticilliflorum*. Wild. Seed.
- PI 520785 donor id: 085. origin: Kenya. collected: 1978.  
collector id: 085. other id: NSL 184264. locality:  
Lambwe V. village, S. Nyanza, Nyanza Province. received  
as: *S. verticilliflorum*. Wild. Seed.
- PI 520786 donor id: 086. origin: Kenya. collected: 1978.  
collector id: 086. other id: NSL 184265. locality:  
Lambwe V. village, S. Nyanza, Nyanza Province. received  
as: *S. verticilliflorum*. Wild. Seed.
- PI 520787 donor id: 125. origin: Kenya. collected: 1978.  
collector id: 125. other id: NSL 184266. locality:  
Masaba village, S. Nyanza, Nyanza Province. received as:  
*S. verticilliflorum*. Wild. Seed.
- PI 520788 donor id: 251. origin: Kenya. local name: Oboro.  
collected: 1978. collector id: 251. other id: NSL  
184267. locality: Ogumba village, Siaya, Nyanza  
Province. received as: *S. verticilliflorum*. Wild.  
Seed.
- PI 520789 donor id: 278. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 278. other id: NSL  
184268. locality: Nyangera village, Siaya, Nyanza  
Province. received as: *S. verticilliflorum*. Wild.  
Seed.
- PI 520790 donor id: 296. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 296. other id: NSL  
184269. locality: Andungosi village, Busia, Western  
Province. remarks: Weed. received as: *S.*  
*verticilliflorum*. Wild. Seed.
- PI 520791 donor id: 309. origin: Kenya. collected: 1978.  
collector id: 309. other id: NSL 184270. locality:  
Mukwayo village, Busia, Western Province. received as:  
*S. verticilliflorum*. Wild. Seed.
- PI 520792 donor id: 313. origin: Kenya. collected: 1978.  
collector id: 313. other id: NSL 184271. locality:  
Busira village, Busia, Western Province. received as: *S.*  
*verticilliflorum*. Wild. Seed.
- PI 520793 donor id: 320. origin: Kenya. collected: 1978.  
collector id: 320. other id: NSL 184272. locality:  
Musokoto village, Busia, Western Province. received as:  
*S. verticilliflorum*. Wild. Seed.

PI 520775 to 520803-continued

- PI 520794 donor id: 396. origin: Kenya. collected: 1978.  
collector id: 396. other id: NSL 184273. locality: Mbeu  
village, Meru, Eastern Province. received as: S.  
verticilliflorum. Wild. Seed.
- PI 520795 donor id: 410. origin: Kenya. collected: 1978.  
collector id: 410. other id: NSL 184274. locality:  
Mtwapa village, Kilifi, Coast Province. received as: S.  
verticilliflorum. Wild. Seed.
- PI 520796 donor id: 422. origin: Kenya. collected: 1978.  
collector id: 422. other id: NSL 184275. locality:  
Manda Is. village, Lamu, Coast Province. received as: S.  
verticilliflorum. Wild. Seed.
- PI 520797 donor id: 432. origin: Kenya. collected: 1978.  
collector id: 432. other id: NSL 184276. locality:  
Sokoke village, Kilifi, Coast Province. received as: S.  
verticilliflorum. Wild. Seed.
- PI 520798 donor id: 433. origin: Kenya. collected: 1978.  
collector id: 433. other id: NSL 184277. locality:  
Kaloleni village, Kilifi, Coast Province. received as:  
S. verticilliflorum. Wild. Seed.
- PI 520799 donor id: 434. origin: Kenya. collected: 1978.  
collector id: 434. other id: NSL 184278. locality: Galu  
village, Kwale, Coast Province. received as: S.  
verticilliflorum. Wild. Seed.
- PI 520800 donor id: 436. origin: Kenya. collected: 1978.  
collector id: 436. other id: NSL 184279. locality:  
Kanana village, Kwale, Coast Province. received as: S.  
verticilliflorum. Wild. Seed.
- PI 520801 donor id: 442. origin: Kenya. collected: 1978.  
collector id: 442. other id: NSL 184280. locality:  
Kamleza village, Taita, Coast Province. received as: S.  
verticilliflorum. Wild. Seed.
- PI 520802 donor id: 453. origin: Kenya. collected: 1978.  
collector id: 453. other id: NSL 184281. locality:  
Mwachawaza village, Taita, Coast Province. received as:  
S. verticilliflorum. Wild. Seed.
- PI 520803 donor id: 458. origin: Kenya. collected: 1978.  
collector id: 458. other id: NSL 184282. locality:  
Shauri-Moyo village, Malindi, Coast Province. received  
as: S. verticilliflorum. Wild. Seed.

PI 520804 to 521327. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

**Donated by:** Denton, I.R., IBPGR, Rome, Italy; and Toll, J.A., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received 1978.

- PI 520804 **donor id:** 001A. **origin:** Kenya. **local name:** Ikhumba. **collected:** 1978. **collector id:** 001A. **other id:** NSL 183723. **locality:** Bumala village, Busia, Western Province. **remarks:** Sown February, harvested July. Cultivated. Seed.
- PI 520805 **donor id:** 002A. **origin:** Kenya. **local name:** Olusi. **collected:** 1978. **collector id:** 002A. **other id:** NSL 183724. **locality:** Namakoli village, Busia, Western Province. **remarks:** Sown late February, harvested July. Cultivated. Seed.
- PI 520806 **donor id:** 003A. **origin:** Kenya. **local name:** Obunde. **collected:** 1978. **collector id:** 003A. **other id:** NSL 183725. **locality:** Namakoli village, Busia, Western Province. **remarks:** Sown early March, harvested July. Cultivated. Seed.
- PI 520807 **donor id:** 004A. **origin:** Kenya. **local name:** Olusi. **collected:** 1978. **collector id:** 004A. **other id:** NSL 183726. **locality:** Sifugwe village, Busia, Western Province. **remarks:** Sown late February, harvested July. Cultivated. Seed.
- PI 520808 **donor id:** 006A. **origin:** Kenya. **local name:** Indiwa. **collected:** 1978. **collector id:** 006A. **other id:** NSL 183728. **locality:** Naera village, Busia, Western Province. **remarks:** Sown late March, harvested August. Cultivated. Seed.
- PI 520809 **donor id:** 007A. **origin:** Kenya. **local name:** Nakhadabo. **collected:** 1978. **collector id:** 007A. **other id:** NSL 183729. **locality:** Sifugwe village, Busia, Western Province. **remarks:** Sown February, harvested July. Cultivated. Seed.
- PI 520810 **donor id:** 009A. **origin:** Kenya. **local name:** Obunde. **collected:** 1978. **collector id:** 009A. **other id:** NSL 183730. **locality:** Pt. Victoria village, Busia, Western Province. **remarks:** Sown March, harvested July. Cultivated. Seed.
- PI 520811 **donor id:** 010A. **origin:** Kenya. **local name:** Nyaboruli. **collected:** 1978. **collector id:** 010A. **other id:** NSL 183731. **locality:** Bubango village, Busia, Western Province. **remarks:** Sown late March, harvested July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520812 donor id: 011A. origin: Kenya. local name: Namoni Ivili. collected: 1978. collector id: 011A. other id: NSL 183732. locality: Bubango village, Busia, Western Province. remarks: Sown late March, harvested July. Cultivated. Seed.
- PI 520813 donor id: 013A. origin: Kenya. local name: Nakhadabo. collected: 1978. collector id: 013A. other id: NSL 183733. locality: Nanderema village, Busia, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 520814 donor id: 014A. origin: Kenya. local name: Ekhululwe. collected: 1978. collector id: 014A. other id: NSL 183734. locality: Nanderema village, Busia, Western Province. remarks: Sown March, harvested July. Cultivated. Seed.
- PI 520815 donor id: D001A. origin: Kenya. local name: Nakhadabo. collected: 1978. collector id: D001A. other id: NSL 183735. locality: Musoma village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520816 donor id: D002A. origin: Kenya. local name: Ikhumba. collected: 1978. collector id: D002A. other id: NSL 183736. locality: Musoma village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520817 donor id: D003A. origin: Kenya. local name: Sudi. collected: 1978. collector id: D003A. other id: NSL 183737. locality: Musoma village, Busia, Western Province. remarks: Originally from Bungoma. Sown early March, harvested late June. Cultivated. Seed.
- PI 520818 donor id: D004A. origin: Kenya. local name: Olusi. collected: 1978. collector id: D004A. other id: NSL 183738. locality: Sidembe village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520819 donor id: D005A. origin: Kenya. local name: Sabina. collected: 1978. collector id: D005A. other id: NSL 183739. locality: Sidembe village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520820 donor id: D006A. origin: Kenya. local name: Bisuti. collected: 1978. collector id: D006A. other id: NSL 183740. locality: Sidembe village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520821 donor id: D007A. origin: Kenya. local name: Nawesisie. collected: 1978. collector id: D007A. other id: NSL 183741. locality: Sidembe village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520822 donor id: D008A. origin: Kenya. local name: Nakhaloli. collected: 1978. collector id: D008A. other id: NSL 183742. locality: Sidembe village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520823 donor id: D009A. origin: Kenya. local name: Bisuti. collected: 1978. collector id: D009A. other id: NSL 183743. locality: Sidembe village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520824 donor id: D010A. origin: Kenya. local name: Sabina. collected: 1978. collector id: D010A. other id: NSL 183744. locality: Sidembe village, Busia, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 520825 donor id: D011A. origin: Kenya. local name: Nakhadabo. collected: 1978. collector id: D011A. other id: NSL 183745. locality: Matende village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520826 donor id: D012A. origin: Kenya. local name: Nakhaloli. collected: 1978. collector id: D012A. other id: NSL 183746. locality: Lwanikha village, Busia, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520827 donor id: D013A. origin: Kenya. local name: Yikhumba. collected: 1978. collector id: D013A. other id: NSL 183747. locality: Buyofu village, Busia, Western Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.



PI 520804 to 521327-continued

- PI 520828 donor id: D014A. origin: Kenya. local name: Ikhumba.  
collected: 1978. collector id: D014A. other id: NSL  
183748. locality: Lugulu village, Busia, Western  
Province. remarks: Sown January, harvested June.  
Cultivated. Seed.
- PI 520829 donor id: D016A. origin: Kenya. local name: Nakhaloli.  
collected: 1978. collector id: D016A. other id: NSL  
183749. locality: Bulemia village, Busia, Western  
Province. remarks: Sown late March, harvested early  
July. Cultivated. Seed.
- PI 520830 donor id: D017A. origin: Kenya. local name: Namayeye.  
collected: 1978. collector id: D017A. other id: NSL  
183750. locality: Bulemia village, Busia, Western  
Province. remarks: Sown late March, harvested early  
July. Cultivated. Seed.
- PI 520831 donor id: D018A. origin: Kenya. local name: Sabena.  
collected: 1978. collector id: D018A. other id: NSL  
183751. locality: Bulemia village, Busia, Western  
Province. remarks: Sown late March, harvested early  
July. Cultivated. Seed.
- PI 520832 donor id: D019A. origin: Kenya. local name: Nakhadabo.  
collected: 1978. collector id: D019A. other id: NSL  
183752. locality: Namikoye village, Busia, Western  
Province. remarks: Sown late March, harvested early  
July. Cultivated. Seed.
- PI 520833 donor id: D020A. origin: Kenya. local name: Wesiskiye.  
collected: 1978. collector id: D020A. other id: NSL  
183753. locality: Namikoye village, Busia, Western  
Province. remarks: Sown late March, harvested early  
July. Cultivated. Seed.
- PI 520834 donor id: D021A. origin: Kenya. local name: Ikhumba.  
collected: 1978. collector id: D021A. other id: NSL  
183754. locality: Namikoye village, Busia, Western  
Province. remarks: Sown late March, harvested early  
July. Cultivated. Seed.
- PI 520835 donor id: D022A. origin: Kenya. local name: Olusi.  
collected: 1978. collector id: D022A. other id: NSL  
183755. locality: Namikoye village, Busia, Western  
Province. remarks: Sown late March, harvested early  
July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520836 donor id: 018A. origin: Kenya. local name: Emanyolet.  
collected: 1978. collector id: 018A. other id: NSL  
183756. locality: Akoleti village, Busia, Western  
Province. remarks: Sown April, harvested late June.  
Cultivated. Seed.
- PI 520837 donor id: 019A. origin: Kenya. local name: Emuruk.  
collected: 1978. collector id: 019A. other id: NSL  
183757. locality: Amagoro village, Busia, Western  
Province. remarks: Sown late February, harvested early  
July. Cultivated. Seed.
- PI 520838 donor id: 020A. origin: Kenya. local name: Obolei.  
collected: 1978. collector id: 020A. other id: NSL  
183758. locality: Kekaleti village, Busia, Western  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 520839 donor id: 021A. origin: Kenya. local name: Esila.  
collected: 1978. collector id: 021A. other id: NSL  
183759. locality: Kekaleti village, Busia, Western  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 520840 donor id: 022A. origin: Kenya. local name: Elataita.  
collected: 1978. collector id: 022A. other id: NSL  
183760. locality: Adanya village, Busia, Western  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520841 donor id: 023A. origin: Kenya. local name: Nakhadabo.  
collected: 1978. collector id: 023A. other id: NSL  
183761. locality: Maduwa village, Busia, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520842 donor id: 024A. origin: Kenya. local name: Rwaisisie.  
collected: 1978. collector id: 024A. other id: NSL  
183762. locality: Maduwa village, Busia, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520843 donor id: 025A. origin: Kenya. local name: Nefumo.  
collected: 1978. collector id: 025A. other id: NSL  
183763. locality: Maduwa village, Busia, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520844 donor id: 026A. origin: Kenya. local name: Olusi.  
collected: 1978. collector id: 026A. other id: NSL  
183764. locality: Maduwa village, Busia, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520845 donor id: 029A. origin: Kenya. local name: Juma.  
collected: 1978. collector id: 029A. other id: NSL  
183765. locality: Samiji village, Bungoma, Western  
Province. remarks: Sown February, harvested June.  
Cultivated. Seed.
- PI 520846 donor id: 030A. origin: Kenya. local name: Sabina.  
collected: 1978. collector id: 030A. other id: NSL  
183766. locality: Samiji village, Bungoma, Western  
Province. remarks: Sown February, harvested June.  
Cultivated. Seed.
- PI 520847 donor id: 031A. origin: Kenya. local name: Khumba.  
collected: 1978. collector id: 031A. other id: NSL  
183767. locality: Samiji village, Bungoma, Western  
Province. remarks: Sown mid-February, harvested July.  
Cultivated. Seed.
- PI 520848 donor id: 032A. origin: Kenya. local name: Nabukimbo.  
collected: 1978. collector id: 032A. other id: NSL  
183768. locality: Bulimbo village, Kakamega, Western  
Province. remarks: Sown mid-February, harvested July.  
Cultivated. Seed.
- PI 520849 donor id: 033A. origin: Kenya. local name: Ekhumba.  
collected: 1978. collector id: 033A. other id: NSL  
183769. locality: Bulimbo village, Kakamega, Western  
Province. remarks: Sown mid-February, harvested July.  
Cultivated. Seed.
- PI 520850 donor id: 036A. origin: Kenya. local name: Sabina.  
collected: 1978. collector id: 036A. other id: NSL  
183770. locality: Bulimbo village, Kakamega, Western  
Province. remarks: Sown mid-February, harvested July.  
Cultivated. Seed.
- PI 520851 donor id: 037A. origin: Kenya. local name: Nakhaloli.  
collected: 1978. collector id: 037A. other id: NSL  
183771. locality: Bulimbo village, Kakamega, Western  
Province. remarks: Sown mid-February, harvested July.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520852 donor id: 038A. origin: Kenya. local name: Nakhaloli.  
collected: 1978. collector id: 038A. other id: NSL  
183772. locality: Matungu village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520853 donor id: 039A. origin: Kenya. local name: Evisitu.  
collected: 1978. collector id: 039A. other id: NSL  
183773. locality: Matungu village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520854 donor id: 040A. origin: Kenya. local name: Namafumo.  
collected: 1978. collector id: 040A. other id: NSL  
183774. locality: Matungu village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520855 donor id: 042A. origin: Kenya. local name: Imbati.  
collected: 1978. collector id: 042A. other id: NSL  
183775. locality: Matungu village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520856 donor id: 043A. origin: Kenya. local name: Nakhaloli.  
collected: 1978. collector id: 043A. other id: NSL  
183776. locality: Busembe village, Kakamega, Western  
Province. remarks: Sown early February, harvested June.  
Cultivated. Seed.
- PI 520857 donor id: 044A. origin: Kenya. local name: Sabina.  
collected: 1978. collector id: 044A. other id: NSL  
183777. locality: Busembe village, Kakamega, Western  
Province. remarks: Sown February, harvested June.  
Cultivated. Seed.
- PI 520858 donor id: 045A. origin: Kenya. local name: Ekhumba.  
collected: 1978. collector id: 045A. other id: NSL  
183778. locality: Busembe village, Kakamega, Western  
Province. remarks: Sown February, harvested June.  
Cultivated. Seed.
- PI 520859 donor id: 046A. origin: Kenya. local name: Nakhaloli.  
collected: 1978. collector id: 046A. other id: NSL  
183779. locality: Kholera village, Kakamega, Western  
Province. remarks: Sown February, harvested June.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520860 donor id: 047A. origin: Kenya. local name: Ekhumba.  
collected: 1978. collector id: 047A. other id: NSL  
183780. locality: Kholera village, Kakamega, Western  
Province. remarks: Sown February, harvested June.  
Cultivated. Seed.
- PI 520861 donor id: 048A. origin: Kenya. local name: Sabina.  
collected: 1978. collector id: 048A. other id: NSL  
183781. locality: Endechera village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520862 donor id: 049A. origin: Kenya. local name: Nakhaloli.  
collected: 1978. collector id: 049A. other id: NSL  
183782. locality: Endechera village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520863 donor id: 050A. origin: Kenya. local name: Embati.  
collected: 1978. collector id: 050A. other id: NSL  
183783. locality: Endechera village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520864 donor id: 051A. origin: Kenya. local name: Sabina.  
collected: 1978. collector id: 051A. other id: NSL  
183784. locality: Namulungu village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520865 donor id: 052A. origin: Kenya. local name: Ekhumba.  
collected: 1978. collector id: 052A. other id: NSL  
183785. locality: Namulungu village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520866 donor id: 053A. origin: Kenya. local name: Lisanyi.  
collected: 1978. collector id: 053A. other id: NSL  
183786. locality: Namulungu village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested July.  
Cultivated. Seed.
- PI 520867 donor id: 054A. origin: Kenya. local name: Ekhumba.  
collected: 1978. collector id: 054A. other id: NSL  
183787. locality: Mirerea village, Kakamega, Western  
Province. remarks: Sown late February, harvested July.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520868 donor id: 055A. origin: Kenya. local name: Sabina. collected: 1978. collector id: 055A. other id: NSL 183788. locality: Mirerea village, Kakamega, Western Province. remarks: Sown late February, harvested July. Cultivated. Seed.
- PI 520869 donor id: 056A. origin: Kenya. local name: Nakhaloli. collected: 1978. collector id: 056A. other id: NSL 183789. locality: Ejinja village, Kakamega, Western Province. remarks: Sown late February, harvested July. Cultivated. Seed.
- PI 520870 donor id: 057A. origin: Kenya. local name: Sabina. collected: 1978. collector id: 057A. other id: NSL 183790. locality: Ejinja village, Kakamega, Western Province. remarks: Sown late February, harvested July. Cultivated. Seed.
- PI 520871 donor id: 058A. origin: Kenya. local name: Nakhaloli. collected: 1978. collector id: 058A. other id: NSL 183791. locality: Koyonzo village, Kakamega, Western Province. remarks: Sown late February, harvested July. Cultivated. Seed.
- PI 520872 donor id: 059A. origin: Kenya. local name: Shbina. collected: 1978. collector id: 059A. other id: NSL 183792. locality: Koyonzo village, Kakamega, Western Province. remarks: Sown late February, harvested July. Cultivated. Seed.
- PI 520873 donor id: 060A. origin: Kenya. local name: Wesisie. collected: 1978. collector id: 060A. other id: NSL 183793. locality: Koyonzo village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 520874 donor id: 061A. origin: Kenya. local name: Otsuwa. collected: 1978. collector id: 061A. other id: NSL 183794. locality: Koyonzo village, Kakamega, Western Province. remarks: Sown February, harvested July. Cultivated. Seed.
- PI 520875 donor id: 062A. origin: Kenya. local name: Naisisie. collected: 1978. collector id: 062A. other id: NSL 183795. locality: Mambo Leo village, Kakamega, Western Province. remarks: Sown early February, harvested July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520876 donor id: 063A. origin: Kenya. local name: Nakhaloli.  
collected: 1978. collector id: 063A. other id: NSL  
183796. locality: Nambalekea village, Kakamega, Western  
Province. remarks: Sown early February, harvested July.  
Cultivated. Seed.
- PI 520877 donor id: 064A. origin: Kenya. local name: Nawasisie.  
collected: 1978. collector id: 064A. other id: NSL  
183797. locality: Nambalekea village, Kakamega, Western  
Province. remarks: Sown February, harvested June.  
Cultivated. Seed.
- PI 520878 donor id: 065A. origin: Kenya. local name: Mbati.  
collected: 1978. collector id: 065A. other id: NSL  
183798. locality: Nambalekea village, Kakamega, Western  
Province. remarks: Sown March, harvested July.  
Cultivated. Seed.
- PI 520879 donor id: 066A. origin: Kenya. local name: Otsuwa.  
collected: 1978. collector id: 066A. other id: NSL  
183799. locality: Nambalekea village, Kakamega, Western  
Province. remarks: Sown mid-March, harvested June.  
Cultivated. Seed.
- PI 520880 donor id: 067A. origin: Kenya. local name: Otsuwa.  
collected: 1978. collector id: 067A. other id: NSL  
183800. locality: Nambalekea village, Kakamega, Western  
Province. remarks: Sown early February, harvested June.  
Cultivated. Seed.
- PI 520881 donor id: D001B. origin: Kenya. local name: Sabina.  
collected: 1978. collector id: D001B. other id: NSL  
183801. locality: Ekeru village, Kakamega, Western  
Province. remarks: Sown early March, harvested late  
June. Cultivated. Seed.
- PI 520882 donor id: D002B. origin: Kenya. local name: Sabina.  
collected: 1978. collector id: D002B. other id: NSL  
183802. locality: Ekeru village, Kakamega, Western  
Province. remarks: Sown early February, harvested late  
June. Cultivated. Seed.
- PI 520883 donor id: D003B. origin: Kenya. local name: Otsuwa.  
collected: 1978. collector id: D003B. other id: NSL  
183803. locality: Bukaya village, Kakamega, Western  
Province. remarks: Sown late March, harvested late June.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520884 donor id: 068A. origin: Kenya. local name: Nawesisie. collected: 1978. collector id: 068A. other id: NSL 183804. locality: Bulimbo village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.
- PI 520885 donor id: 069A. origin: Kenya. local name: Shisuti. collected: 1978. collector id: 069A. other id: NSL 183805. locality: Bulimbo village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.
- PI 520886 donor id: 070A. origin: Kenya. local name: Sabina. collected: 1978. collector id: 070A. other id: NSL 183806. locality: Burimba village, Kakamega, Western Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 520887 donor id: 071A. origin: Kenya. local name: Nakhaloli. collected: 1978. collector id: 071A. other id: NSL 183807. locality: Burimba village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 520888 donor id: 072A. origin: Kenya. local name: Namafumo. collected: 1978. collector id: 072A. other id: NSL 183808. locality: Burimba village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 520889 donor id: 073A. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: 073A. other id: NSL 183809. locality: Musamba village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.
- PI 520890 donor id: 074A. origin: Kenya. local name: Nabukimbi. collected: 1978. collector id: 074A. other id: NSL 184115. locality: Musamba village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.
- PI 520891 donor id: 075A. origin: Kenya. local name: Imbati. collected: 1978. collector id: 075A. other id: NSL 183810. locality: Mayoni village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.



PI 520804 to 521327-continued

- PI 520892 donor id: 076A. origin: Kenya. local name: Nakhaloli. collected: 1978. collector id: 076A. other id: NSL 183811. locality: Mayoni village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.
- PI 520893 donor id: 077A. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: 077A. other id: NSL 183812. locality: Mayoni village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.
- PI 520894 donor id: 078A. origin: Kenya. local name: Nakhaloli. collected: 1978. collector id: 078A. other id: NSL 183813. locality: Shaweyala village, Kakamega, Western Province. remarks: Sown late February, harvested July. Cultivated. Seed.
- PI 520895 donor id: 079A. origin: Kenya. local name: Sabina. collected: 1978. collector id: 079A. other id: NSL 183814. locality: Shaweyala village, Kakamega, Western Province. remarks: Sown February, harvested July. Cultivated. Seed.
- PI 520896 donor id: 080A. origin: Kenya. local name: Likwenjeli. collected: 1978. collector id: 080A. other id: NSL 183815. locality: Makunga village, Kakamega, Western Province. remarks: Sown March, harvested July. Cultivated. Seed.
- PI 520897 donor id: 081A. origin: Kenya. local name: Nakhaloli. collected: 1978. collector id: 081A. other id: NSL 183816. locality: Makunga village, Kakamega, Western Province. remarks: Sown March, harvested July. Cultivated. Seed.
- PI 520898 donor id: 082A. origin: Kenya. local name: Nawesisie. collected: 1978. collector id: 082A. other id: NSL 183817. locality: Shianda village, Kakamega, Western Province. remarks: Sown mid-March, harvested July. Cultivated. Seed.
- PI 520899 donor id: 083A. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: 083A. other id: NSL 183818. locality: Shianda village, Kakamega, Western Province. remarks: Sown mid-March, harvested July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520900 donor id: D005B. origin: Kenya. local name: Nambande. collected: 1978. collector id: D005B. other id: NSL 183819. locality: Ibinda village, Kakamega, Western Province. remarks: Sown mid-February, harvested mid-June. Cultivated. Seed.
- PI 520901 donor id: D006B. origin: Kenya. local name: Sabina. collected: 1978. collector id: D006B. other id: NSL 183820. locality: Shintsala village, Kakamega, Western Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 520902 donor id: D007B. origin: Kenya. collected: 1978. collector id: D007B. other id: NSL 183821. locality: Shintsala village, Kakamega, Western Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 520903 donor id: D008B. origin: Kenya. local name: Nakhalule. collected: 1978. collector id: D008B. other id: NSL 183822. locality: Mundeku village, Kakamega, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520904 donor id: D009B. origin: Kenya. local name: Orando. collected: 1978. collector id: D009B. other id: NSL 183823. locality: Mudaeku village, Kakamega, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520905 donor id: D010B. origin: Kenya. local name: Osieko. collected: 1978. collector id: D010B. other id: NSL 183824. locality: Mundeku village, Kakamega, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520906 donor id: D011B. origin: Kenya. local name: Ikhumba. collected: 1978. collector id: D011B. other id: NSL 183825. locality: Mundeku village, Kakamega, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.
- PI 520907 donor id: D012B. origin: Kenya. local name: Eshikunyu. collected: 1978. collector id: D012B. other id: NSL 183826. locality: Nameoli village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520908 donor id: D013B. origin: Kenya. local name: Aberi. collected: 1978. collector id: D013B. other id: NSL 183827. locality: Wambulisha village, Kakamega, Western Province. remarks: Sown late February, harvested early July. Cultivated. Seed.
- PI 520909 donor id: J1. origin: Kenya. local name: Shisuti. collected: 1978. collector id: J1. other id: NSL 183828. locality: Malava village, Kakamega, Western Province. remarks: Sown late February, harvested early July. Cultivated. Seed.
- PI 520910 donor id: J3. origin: Kenya. local name: Ikhumba. collected: 1978. collector id: J3. other id: NSL 183829. locality: Malava village, Kakamega, Western Province. remarks: Sown late March, harvested June. Cultivated. Seed.
- PI 520911 donor id: J4. origin: Kenya. local name: Wesisie. collected: 1978. collector id: J4. other id: NSL 183830. locality: Malava village, Kakamega, Western Province. remarks: Sown late March, harvested June. Cultivated. Seed.
- PI 520912 donor id: J5. origin: Kenya. local name: Ikhumba. collected: 1978. collector id: J5. other id: NSL 183831. locality: Malanga village, Kakamega, Western Province. remarks: Sown late January, harvested June. Cultivated. Seed.
- PI 520913 donor id: J6. origin: Kenya. local name: Ikhumba. collected: 1978. collector id: J6. other id: NSL 183832. locality: Malekha village, Kakamega, Western Province. remarks: Sown April, harvested July. Cultivated. Seed.
- PI 520914 donor id: J7. origin: Kenya. local name: Sabina. collected: 1978. collector id: J7. other id: NSL 183833. locality: Sango village, Kakamega, Western Province. remarks: Sown March, harvested July. Cultivated. Seed.
- PI 520915 donor id: J8. origin: Kenya. local name: Wesisie. collected: 1978. collector id: J8. other id: NSL 183834. locality: Sango village, Kakamega, Western Province. remarks: Sown March, harvested July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520916 donor id: J9. origin: Kenya. local name: Imbati. collected: 1978. collector id: J9. other id: NSL 183835. locality: Sango village, Kakamega, Western Province. remarks: Sown March, harvested July. Cultivated. Seed.
- PI 520917 donor id: J10. origin: Kenya. local name: Sabina. collected: 1978. collector id: J10. other id: NSL 183836. locality: Kulumbeni village, Kakamega, Western Province. remarks: Sown mid-February, harvested July. Cultivated. Seed.
- PI 520918 donor id: J11. origin: Kenya. local name: Wesisie. collected: 1978. collector id: J11. other id: NSL 183837. locality: Makhukhuni village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 520919 donor id: J12. origin: Kenya. local name: Sabina. collected: 1978. collector id: J12. other id: NSL 183838. locality: Mukhuni village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 520920 donor id: J13I. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: J13I. other id: NSL 183839. locality: Mukhuni village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 520921 donor id: J13II. origin: Kenya. local name: Wesisie. collected: 1978. collector id: J13II. other id: NSL 183840. locality: Jehjeni village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 520922 donor id: J14. origin: Kenya. local name: Sanina. collected: 1978. collector id: J14. other id: NSL 183841. locality: Vihika village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 520923 donor id: D001C. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: D001C. other id: NSL 183842. locality: Shikonde village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520924 donor id: D002C. origin: Kenya. local name: Liboywa. collected: 1978. collector id: D002C. other id: NSL 183843. locality: Shikonde village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 520925 donor id: D003C. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: D003C. other id: NSL 183844. locality: Shikulu village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 520926 donor id: D004C. origin: Kenya. local name: Shikhayi. collected: 1978. collector id: D004C. other id: NSL 183845. locality: Shikulu village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 520927 donor id: D006C. origin: Kenya. local name: Imbindi. collected: 1978. collector id: D006C. other id: NSL 183846. locality: Biriadwa village, Kakamega, Western Province. remarks: Sown September, harvested early July. Cultivated. Seed.
- PI 520928 donor id: D007C. origin: Kenya. local name: Ekaumba. collected: 1978. collector id: D007C. other id: NSL 183847. locality: Biriadwa village, Kakamega, Western Province. remarks: Sown September, harvested early July. Cultivated. Seed.
- PI 520929 donor id: D008C. origin: Kenya. local name: Lisuwa. collected: 1978. collector id: D008C. other id: NSL 183848. locality: Biriadwa village, Kakamega, Western Province. remarks: Sown September, harvested early July. Cultivated. Seed.
- PI 520930 donor id: D009C. origin: Kenya. local name: Likwenjeli. collected: 1978. collector id: D009C. other id: NSL 183849. locality: Lirembe village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 520931 donor id: D010C. origin: Kenya. local name: Imbindi. collected: 1978. collector id: D010C. other id: NSL 183850. locality: Lirembe village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520932 donor id: D011C. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: D011C. other id: NSL 183851. locality: Lirembe village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 520933 donor id: D012C. origin: Kenya. local name: Chisuti. collected: 1978. collector id: D012C. other id: NSL 183852. locality: Iguhu village, Kakamega, Western Province. remarks: Sown late February, harvested early July. Cultivated. Seed.
- PI 520934 donor id: D013C. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: D013C. other id: NSL 183853. locality: Iguhu village, Kakamega, Western Province. remarks: Sown late February, harvested early July. Cultivated. Seed.
- PI 520935 donor id: D014C. origin: Kenya. local name: Imbindi. collected: 1978. collector id: D014C. other id: NSL 183854. locality: Iguhu village, Kakamega, Western Province. remarks: Sown late February, harvested early July. Cultivated. Seed.
- PI 520936 donor id: 001. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 001. other id: NSL 183855. locality: Karateng village, Kisumu, Nyanza Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 520937 donor id: 002. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 002. other id: NSL 183856. locality: Karateng village, Kisumu, Nyanza Province. remarks: Sown early February, harvested early August. Cultivated. Seed.
- PI 520938 donor id: 004. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 004. other id: NSL 183857. locality: Karateng village, Kisumu, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 520939 donor id: 005. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 005. other id: NSL 183858. locality: Karateng village, Kisumu, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520940 donor id: 006. origin: Kenya. local name: Rachar. collected: 1978. collector id: 006. other id: NSL 183859. locality: Karateng village, Kisumu, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 520941 donor id: 007. origin: Kenya. local name: Jagopari. collected: 1978. collector id: 007. other id: NSL 183860. locality: Marera village, Kisumu, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 520942 donor id: 009. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 009. other id: NSL 183861. locality: Marera village, Kisumu, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 520943 donor id: 010. origin: Kenya. local name: Nyakawadida. collected: 1978. collector id: 010. other id: NSL 183862. locality: Marera village, Kisumu, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 520944 donor id: 011. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 011. other id: NSL 183863. locality: Nyaboyo village, Kisumu, Nyanza Province. remarks: Sown March, harvested July. Cultivated. Seed.
- PI 520945 donor id: 013. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 013. other id: NSL 183864. locality: Nyaboyo village, Kisumu, Nyanza Province. remarks: Sown March, harvested July. Cultivated. Seed.
- PI 520946 donor id: 014. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 014. other id: NSL 183865. locality: Kokiri village, Kisumu, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 520947 donor id: 015. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 015. other id: NSL 183866. locality: Kokiri village, Kisumu, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520948 donor id: 016. origin: Kenya. local name: Rachar.  
collected: 1978. collector id: 016. other id: NSL  
183867. locality: Kokiri village, Kisumu, Nyanza  
Province. remarks: Sown early March, harvested early  
July. Cultivated. Seed.
- PI 520949 donor id: 018. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 018. other id: NSL  
183868. locality: Kasule village, Kisumu, Nyanza  
Province. remarks: Sown early March, harvested early  
July. Cultivated. Seed.
- PI 520950 donor id: 019. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 019. other id: NSL  
183869. locality: Kayuyu village, Kisumu, Nyanza  
Province. remarks: Sown early March, harvested early  
July. Cultivated. Seed.
- PI 520951 donor id: 020. origin: Kenya. local name: Jogoo.  
collected: 1978. collector id: 020. other id: NSL  
183870. locality: Namware village, Kisumu, Nyanza  
Province. remarks: Sown early March, harvested early  
July. Cultivated. Seed.
- PI 520952 donor id: 021. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 021. other id: NSL  
183871. locality: Rweya village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 520953 donor id: 022. origin: Kenya. local name: Nyalando.  
collected: 1978. collector id: 022. other id: NSL  
183872. locality: Rweya village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 520954 donor id: 023. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 023. other id: NSL  
183873. locality: Kahyakwar village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 520955 donor id: 024. origin: Kenya. local name: Rachar.  
collected: 1978. collector id: 024. other id: NSL  
183874. locality: Kahyakwar village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.



PI 520804 to 521327-continued

- PI 520956 donor id: 025. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 025. other id: NSL  
183875. locality: Kahyakwar village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 520957 donor id: 026. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 026. other id: NSL  
183876. locality: Kahyakwar village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 520958 donor id: 027. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 027. other id: NSL  
183877. locality: Bugna village, Kisumu, Nyanza  
Province. remarks: Originally from Kisumu. Sown early  
April, harvested early August. Cultivated. Seed.
- PI 520959 donor id: 028. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 028. other id: NSL  
183878. locality: Bugna village, Kisumu, Nyanza  
Province. remarks: Sown early April, harvested early  
August. Cultivated. Seed.
- PI 520960 donor id: 029. origin: Kenya. local name: Olieko.  
collected: 1978. collector id: 029. other id: NSL  
183879. locality: Koydgi village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520961 donor id: 030. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 030. other id: NSL  
183880. locality: Koydgi village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520962 donor id: 031. origin: Kenya. local name: Agriculturo.  
collected: 1978. collector id: 031. other id: NSL  
183881. locality: Koydgi village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520963 donor id: 032. origin: Kenya. local name: Nyabande.  
collected: 1978. collector id: 032. other id: NSL  
183882. locality: Koydgi village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520964 donor id: 033. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 033. other id: NSL 183883. locality: Ranjira village, Kisumu, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 520965 donor id: 034. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 034. other id: NSL 183884. locality: Ranjira village, Kisumu, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 520966 donor id: 035. origin: Kenya. local name: Kumba. collected: 1978. collector id: 035. other id: NSL 183885. locality: Ranjira village, Kisumu, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 520967 donor id: 036. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 036. other id: NSL 183886. locality: Kamsua village, Kisumu, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 520968 donor id: 037. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 037. other id: NSL 183887. locality: Kamsua village, Kisumu, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 520969 donor id: 038. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 038. other id: NSL 183888. locality: Wangaya village, Kisumu, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 520970 donor id: 039. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 039. other id: NSL 183889. locality: Wangaya village, Kisumu, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 520971 donor id: 040. origin: Kenya. local name: Rachar. collected: 1978. collector id: 040. other id: NSL 183890. locality: Awasi village, Kisumu, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520972 donor id: 041. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 041. other id: NSL  
183891. locality: Wangaya village, Kisumu, Nyanza  
Province. remarks: Sown early March, harvested early  
July. Cultivated. Seed.
- PI 520973 donor id: 042. origin: Kenya. local name: Rachar.  
collected: 1978. collector id: 042. other id: NSL  
183892. locality: Wangaya village, Kisumu, Nyanza  
Province. remarks: Sown early March, harvested early  
July. Cultivated. Seed.
- PI 520974 donor id: 043. origin: Kenya. local name: Oliko.  
collected: 1978. collector id: 043. other id: NSL  
183893. locality: Tura village, Kisumu, Nyanza Province.  
remarks: Sown early April, harvested early July.  
Cultivated. Seed.
- PI 520975 donor id: 044. origin: Kenya. local name: Ahdiwo.  
collected: 1978. collector id: 044. other id: NSL  
183894. locality: Tura village, Kisumu, Nyanza Province.  
remarks: Sown early April, harvested early July.  
Cultivated. Seed.
- PI 520976 donor id: 045. origin: Kenya. local name: Rabour.  
collected: 1978. collector id: 045. other id: NSL  
183895. locality: Tura village, Kisumu, Nyanza Province.  
remarks: Sown early April, harvested early July.  
Cultivated. Seed.
- PI 520977 donor id: 046. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 046. other id: NSL  
183896. locality: Tura village, Kisumu, Nyanza Province.  
remarks: Sown early April, harvested early July.  
Cultivated. Seed.
- PI 520978 donor id: 047. origin: Kenya. local name: Nyalahdo.  
collected: 1978. collector id: 047. other id: NSL  
183897. locality: Kochogu village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520979 donor id: 049. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 049. other id: NSL  
183899. locality: Kochogu village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520980 donor id: 050. origin: Kenya. local name: Agoro.  
collected: 1978. collector id: 050. other id: NSL  
183900. locality: Agoro village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520981 donor id: 051. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 051. other id: NSL  
183901. locality: Agoro village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520982 donor id: 052. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 052. other id: NSL  
183902. locality: Kolal village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520983 donor id: 053. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 053. other id: NSL  
183903. locality: Kolal village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520984 donor id: 054. origin: Kenya. local name: Nyabande.  
collected: 1978. collector id: 054. other id: NSL  
183904. locality: Kolal village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520985 donor id: 055. origin: Kenya. local name: Nyabande.  
collected: 1978. collector id: 055. other id: NSL  
183905. locality: Kolal village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520986 donor id: 056. origin: Kenya. local name: Arut.  
collected: 1978. collector id: 056. other id: NSL  
183906. locality: Kolal village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 520987 donor id: 057. origin: Kenya. local name: Agriculture.  
collected: 1978. collector id: 057. other id: NSL  
183907. locality: Kolal village, Kisumu, Nyanza  
Province. remarks: Originally from Kisumu. Sown  
mid-February, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520988 donor id: 058. origin: Kenya. local name: Arut.  
collected: 1978. collector id: 058. other id: NSL  
183908. locality: Kolal village, Kisumu, Nyanza  
Province. remarks: Originally from Kahe plain. Sown  
mid-February, harvested mid-July. Cultivated. Seed.
- PI 520989 donor id: 059. origin: Kenya. local name: Nyakachaye.  
collected: 1978. collector id: 059. other id: NSL  
183909. locality: Kajimbo village, Kisumu, Nyanza  
Province. remarks: Sown mid-January, harvested mid-July.  
Cultivated. Seed.
- PI 520990 donor id: 060. origin: Kenya. local name: Nyakachaye.  
collected: 1978. collector id: 060. other id: NSL  
183910. locality: Kajimbo village, Kisumu, Nyanza  
Province. remarks: Sown February, harvested July.  
Cultivated. Seed.
- PI 520991 donor id: 062. origin: Kenya. local name: Nyakarungu.  
collected: 1978. collector id: 062. other id: NSL  
183911. locality: Kajimbo village, Kisumu, Nyanza  
Province. remarks: Sown February, harvested July.  
Cultivated. Seed.
- PI 520992. donor id: 063. origin: Kenya. local name: Rachar.  
collected: 1978. collector id: 063. other id: NSL  
183912. locality: Kajimbo village, Kisumu, Nyanza  
Province. remarks: Sown February, harvested early July.  
Cultivated. Seed.
- PI 520993 donor id: 064. origin: Kenya. local name: Endiyo.  
collected: 1978. collector id: 064. other id: NSL  
183913. locality: Mwamisoko village, Kisii, Nyanza  
Province. remarks: Sown late February, harvested early  
August. Cultivated. Seed.
- PI 520994 donor id: 066. origin: Kenya. local name: Entianakoru.  
collected: 1978. collector id: 066. other id: NSL  
183914. locality: Bomwanja village, Kisii, Nyanza  
Province. remarks: Originally from Nyanza. Sown late  
February, harvested late July. Cultivated. Seed.
- PI 520995 donor id: 069. origin: Kenya. local name: Afuoyo.  
collected: 1978. collector id: 069. other id: NSL  
183915. locality: Nyatoto village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested early  
August. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 520996 donor id: 070. origin: Kenya. local name: Mbadi.  
collected: 1978. collector id: 070. other id: NSL  
183916. locality: Nyatoto village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested early  
August. Cultivated. Seed.
- PI 520997 donor id: 071. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 071. other id: NSL  
183917. locality: Nyatoto village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested early  
August. Cultivated. Seed.
- PI 520998 donor id: 072. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 072. other id: NSL  
183918. locality: Nyatoto village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested early  
August. Cultivated. Seed.
- PI 520999 donor id: 073. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 073. other id: NSL  
183919. locality: Nyatoto village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested early  
August. Cultivated. Seed.
- PI 521000 donor id: 074. origin: Kenya. local name: Othuya.  
collected: 1978. collector id: 074. other id: NSL  
183920. locality: God-Jope village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 521001 donor id: 075. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 075. other id: NSL  
183921. locality: God-Jope village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 521002 donor id: 076. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 076. other id: NSL  
183922. locality: God-Jope village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 521003 donor id: 077. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 077. other id: NSL  
183923. locality: God-Jope village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521004 donor id: 078. origin: Kenya. local name: Omwagre.  
collected: 1978. collector id: 078. other id: NSL  
183924. locality: God-Jope village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 521005 donor id: 079. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 079. other id: NSL  
183925. locality: Ruri Hill village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 521006 donor id: 080. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 080. other id: NSL  
183926. locality: Ruri Hill village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 521007 donor id: 081. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 081. other id: NSL  
183927. locality: Ruri Hill village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 521008 donor id: 082. origin: Kenya. local name: Nyakarungu.  
collected: 1978. collector id: 082. other id: NSL  
183928. locality: Ruri Hill village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested early  
July. Cultivated. Seed.
- PI 521009 donor id: 087. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 087. other id: NSL  
183929. locality: Winyu village, S. Nyanza, Nyanza  
Province. remarks: Sown late January, harvested  
mid-August. Cultivated. Seed.
- PI 521010 donor id: 088. origin: Kenya. local name: Nyachong'Rao.  
collected: 1978. collector id: 088. other id: NSL  
183930. locality: Kabunde village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
August. Cultivated. Seed.
- PI 521011 donor id: 089. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 089. other id: NSL  
183931. locality: Adianyo village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
August. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521012 donor id: 090. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 090. other id: NSL  
183932. locality: Adianyo village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
August. Cultivated. Seed.
- PI 521013 donor id: 091. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 091. other id: NSL  
183933. locality: Ogande village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-March, harvested mid-July.  
Cultivated. Seed.
- PI 521014 donor id: 092. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 092. other id: NSL  
183934. locality: Ogande village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-March, harvested mid-July.  
Cultivated. Seed.
- PI 521015 donor id: 093. origin: Kenya. local name: Aringo.  
collected: 1978. collector id: 093. other id: NSL  
183935. locality: Ogande village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-March, harvested mid-July.  
Cultivated. Seed.
- PI 521016 donor id: 094. origin: Kenya. local name: Nyawinjra.  
collected: 1978. collector id: 094. other id: NSL  
183936. locality: Ogande village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-March, harvested mid-July.  
Cultivated. Seed.
- PI 521017 donor id: 095. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 095. other id: NSL  
183937. locality: Ogande village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested late  
July. Cultivated. Seed.
- PI 521018 donor id: 096. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 096. other id: NSL  
183938. locality: Agenga village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested early  
August. Cultivated. Seed.
- PI 521019 donor id: 097. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 097. other id: NSL  
183939. locality: Agenga village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested early  
August. Cultivated. Seed.



PI 520804 to 521327-continued

- PI 521020 donor id: 098. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 098. other id: NSL  
183940. locality: Agenga village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested early  
August. Cultivated. Seed.
- PI 521021 donor id: 100. origin: Kenya. local name: Nyakotiwa.  
collected: 1978. collector id: 100. other id: NSL  
183941. locality: Ndiwa village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested late  
July. Cultivated. Seed.
- PI 521022 donor id: 101. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 101. other id: NSL  
183942. locality: Ndiwa village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested late  
July. Cultivated. Seed.
- PI 521023 donor id: 102. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 102. other id: NSL  
183943. locality: Ndiwa village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested  
mid-August. Cultivated. Seed.
- PI 521024 donor id: 103. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 103. other id: NSL  
183944. locality: Ndiwa village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested  
mid-August. Cultivated. Seed.
- PI 521025 donor id: 104. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 104. other id: NSL  
183945. locality: Ndiwa village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested  
mid-August. Cultivated. Seed.
- PI 521026 donor id: 105. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 105. other id: NSL  
183946. locality: Kabuto village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
August. Cultivated. Seed.
- PI 521027 donor id: 106. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 106. other id: NSL  
183947. locality: Modi village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
August. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521028 donor id: 107. origin: Kenya. local name: Jaromo Piyo. collected: 1978. collector id: 107. other id: NSL 183948. locality: Kumoni village, S. Nyanza, Nyanza Province. remarks: Sown early April, harvested early August. Cultivated. Seed.
- PI 521029 donor id: 108. origin: Kenya. local name: Andiphya. collected: 1978. collector id: 108. other id: NSL 183949. locality: Obolo village, S. Nyanza, Nyanza Province. remarks: Sown early March, harvested late July. Cultivated. Seed.
- PI 521030 donor id: 109. origin: Kenya. local name: Kumba. collected: 1978. collector id: 109. other id: NSL 183950. locality: Obolo village, S. Nyanza, Nyanza Province. remarks: Sown early March, harvested late July. Cultivated. Seed.
- PI 521031 donor id: 110. origin: Kenya. local name: Nyamjita. collected: 1978. collector id: 110. other id: NSL 183951. locality: Winjo village, S. Nyanza, Nyanza Province. remarks: Originally from Tanzania. Sown early March, harvested early July. Cultivated. Seed.
- PI 521032 donor id: 111. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 111. other id: NSL 183952. locality: Otoch-Rakuom village, S. Nyanza, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521033 donor id: 112. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 112. other id: NSL 183953. locality: Bunde village, S. Nyanza, Nyanza Province. remarks: Sown late February, harvested late July. Cultivated. Seed.
- PI 521034 donor id: 113. origin: Kenya. local name: Othanyre. collected: 1978. collector id: 113. other id: NSL 183954. locality: Olasi village, S. Nyanza, Nyanza Province. remarks: Sown late February, harvested late July. Cultivated. Seed.
- PI 521035 donor id: 114. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 114. other id: NSL 183955. locality: Wath-Ong'er village, S. Nyanza, Nyanza Province. remarks: Sown early March, harvested early August. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521036 donor id: 115. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 115. other id: NSL 183956. locality: Rabwao village, S. Nyanza, Nyanza Province. remarks: Sown late March, harvested early August. Cultivated. Seed.
- PI 521037 donor id: 116. origin: Kenya. local name: Agriculture. collected: 1978. collector id: 116. other id: NSL 183957. locality: Nyakondo village, S. Nyanza, Nyanza Province. remarks: Originally from Homa Bay. Sown late March, harvested early August. Cultivated. Seed.
- PI 521038 donor id: 117. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 117. other id: NSL 183958. locality: Ongochi village, S. Nyanza, Nyanza Province. remarks: Originally from near Tanzania. Sown late March, harvested early August. Cultivated. Seed.
- PI 521039 donor id: 118. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 118. other id: NSL 183959. locality: Kachola village, S. Nyanza, Nyanza Province. remarks: Sown late March, harvested mid-August. Cultivated. Seed.
- PI 521040 donor id: 119. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 119. other id: NSL 183960. locality: Magongo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested late July. Cultivated. Seed.
- PI 521041 donor id: 120. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 120. other id: NSL 183961. locality: Magongo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early August. Cultivated. Seed.
- PI 521042 donor id: 121. origin: Kenya. local name: Nyarkaloo. collected: 1978. collector id: 121. other id: NSL 183962. locality: Magongo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested late July. Cultivated. Seed.
- PI 521043 donor id: 122. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 122. other id: NSL 183963. locality: Magongo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested mid-July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521044 donor id: 123. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 123. other id: NSL 183964. locality: Got-Marabiko village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early August. Cultivated. Seed.
- PI 521045 donor id: 124. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 124. other id: NSL 183965. locality: Mukuro village, S. Nyanza, Nyanza Province. remarks: Sown late March, harvested mid-August. Cultivated. Seed.
- PI 521046 donor id: 126. origin: Kenya. local name: Iritinya. collected: 1978. collector id: 126. other id: NSL 183966. locality: Komotobo village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521047 donor id: 127. origin: Kenya. local name: Kinyenche. collected: 1978. collector id: 127. other id: NSL 183967. locality: Komotobo village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521048 donor id: 128(T). origin: Kenya. local name: Embaratai. collected: 1978. collector id: 128(T). other id: NSL 183968. locality: Chinato village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521049 donor id: 129. origin: Kenya. local name: Nyamakuagu. collected: 1978. collector id: 129. other id: NSL 183969. locality: Chinato village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521050 donor id: 130. origin: Kenya. local name: Enkomba. collected: 1978. collector id: 130. other id: NSL 183970. locality: Chinato village, S. Nyanza, Nyanza Province. remarks: Originally from Tanzania. Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521051 donor id: 131. origin: Kenya. local name: Magara. collected: 1978. collector id: 131. other id: NSL 183971. locality: Nyabikongori village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521052 donor id: 132. origin: Kenya. collected: 1978. collector id: 132. other id: NSL 183972. locality: Nyabikongori village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521053 donor id: 133. origin: Kenya. local name: Ekeroro. collected: 1978. collector id: 133. other id: NSL 183973. locality: Nyabikongori village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521054 donor id: 134. origin: Kenya. local name: Kinyenche. collected: 1978. collector id: 134. other id: NSL 183974. locality: Nyabikongori village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521055 donor id: 135. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 135. other id: NSL 183975. locality: Nyanduwat village, S. Nyanza, Nyanza Province. remarks: Sown early March, harvested mid-August. Cultivated. Seed.
- PI 521056 donor id: 136. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 136. other id: NSL 183976. locality: Nyanduwat village, S. Nyanza, Nyanza Province. remarks: Sown early March, harvested mid-August. Cultivated. Seed.
- PI 521057 donor id: 137. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 137. other id: NSL 183977. locality: Nyanduwat village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early August. Cultivated. Seed.
- PI 521058 donor id: 139. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 139. other id: NSL 183978. locality: Adongo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early August. Cultivated. Seed.
- PI 521059 donor id: 140. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 140. other id: NSL 183979. locality: Adongo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early August. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521060 donor id: 141. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 141. other id: NSL 183980. locality: Kakayeta village, S. Nyanza, Nyanza Province. remarks: Sown mid-March, harvested early August. Cultivated. Seed.
- PI 521061 donor id: 142. origin: Kenya. local name: Othuwa. collected: 1978. collector id: 142. other id: NSL 183981. locality: Kakayeta village, S. Nyanza, Nyanza Province. remarks: Sown early April, harvested mid-August. Cultivated. Seed.
- PI 521062 donor id: 143. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 143. other id: NSL 183982. locality: Waturi village, S. Nyanza, Nyanza Province. remarks: Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521063 donor id: 144. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 144. other id: NSL 183983. locality: Waturi village, S. Nyanza, Nyanza Province. remarks: Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521064 donor id: 145. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 145. other id: NSL 183984. locality: Waturi village, S. Nyanza, Nyanza Province. remarks: Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521065 donor id: 146(T). origin: Kenya. local name: Arude. collected: 1978. collector id: 146(T). other id: NSL 183985. locality: Kirindo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 521066 donor id: 147. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 147. other id: NSL 183986. locality: Kirindo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 521067 donor id: 148. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 148. other id: NSL 183987. locality: Kirindo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521068 donor id: 149. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 149. other id: NSL 183988. locality: Kirindo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 521069 donor id: 150. origin: Kenya. local name: Marada. collected: 1978. collector id: 150. other id: NSL 183989. locality: Kirindo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 521070 donor id: 151. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 151. other id: NSL 183990. locality: Kirindo village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 521071 donor id: 154. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 154. other id: NSL 183991. locality: Warengu village, Rusinga Is., Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521072 donor id: 155. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 155. other id: NSL 183992. locality: Warengu Village, Rusinga Is., Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521073 donor id: 158. origin: Kenya. local name: Nyakonyango. collected: 1978. collector id: 158. other id: NSL 183993. locality: Gunda village, Rusinga Is., Nyanza Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.
- PI 521074 donor id: 159. origin: Kenya. local name: Athanyo. collected: 1978. collector id: 159. other id: NSL 183994. locality: Gunda village, Rusinga Is., Nyanza Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.
- PI 521075 donor id: 160. origin: Kenya. collected: 1978. collector id: 160. other id: NSL 183995. locality: Gunda village, Rusinga Is., Nyanza Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.
- PI 521076 donor id: 162. origin: Kenya. local name: Rachar. collected: 1978. collector id: 162. other id: NSL 183996. locality: Wayembe village, Rusinga Is., Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521077 donor id: 163. origin: Kenya. local name: Rachar.  
collected: 1978. collector id: 163. other id: NSL  
183997. locality: Wayembe village, Rusinga Is., Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 521078 donor id: 164. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 164. other id: NSL  
183998. locality: Wayembe village, Rusinga Is., Nyanza  
Province. remarks: Sown early February, harvested early  
July. Cultivated. Seed.
- PI 521079 donor id: 165. origin: Kenya. local name:  
Nyakaksengere. collected: 1978. collector id: 165.  
other id: NSL 183999. locality: Wayembe village, Rusinga  
Is., Nyanza Province. remarks: Sown early February,  
harvested early July. Cultivated. Seed.
- PI 521080 donor id: 173. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 173. other id: NSL  
184000. locality: Ongang'a village, S. Nyanza, Nyanza  
Province. remarks: Sown late February, harvested early  
August. Cultivated. Seed.
- PI 521081 donor id: 174. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 174. other id: NSL  
184001. locality: Ongang'a village, S. Nyanza, Nyanza  
Province. remarks: Sown late February, harvested early  
August. Cultivated. Seed.
- PI 521082 donor id: 175. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 175. other id: NSL  
184002. locality: Nyandiwa village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
August. Cultivated. Seed.
- PI 521083 donor id: 176. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 176. other id: NSL  
184003. locality: Kadacha village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested late  
August. Cultivated. Seed.
- PI 521084 donor id: 177. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 177. other id: NSL  
184004. locality: Kawour village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested late  
August. Cultivated. Seed.



PI 520804 to 521327-continued

- PI 521085 donor id: 178. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 178. other id: NSL 184005. locality: Kawour village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested late August. Cultivated. Seed.
- PI 521086 donor id: 179. origin: Kenya. local name: Nyachong'Rao. collected: 1978. collector id: 179. other id: NSL 184006. locality: Kawour village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested late August. Cultivated. Seed.
- PI 521087 donor id: 180. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 180. other id: NSL 184007. locality: Kawour village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested late August. Cultivated. Seed.
- PI 521088 donor id: 181. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 181. other id: NSL 184008. locality: Kawour village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested late August. Cultivated. Seed.
- PI 521089 donor id: 182. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 182. other id: NSL 184009. locality: Kawour village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested late August. Cultivated. Seed.
- PI 521090 donor id: 183. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 183. other id: NSL 184010. locality: Kawour village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested late August. Cultivated. Seed.
- PI 521091 donor id: 184. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 184. other id: NSL 184011. locality: Orero village, S. Nyanza, Nyanza Province. remarks: Sown mid-March, harvested late August. Cultivated. Seed.
- PI 521092 donor id: 185. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 185. other id: NSL 184012. locality: Kanyowa village, S. Nyanza, Nyanza Province. remarks: Sown early March, harvested late August. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521093 donor id: 186. origin: Kenya. local name: Nyalando. collected: 1978. collector id: 186. other id: NSL 184013. locality: Bonge village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early August. Cultivated. Seed.
- PI 521094 donor id: 187. origin: Kenya. local name: Ndong'a. collected: 1978. collector id: 187. other id: NSL 184014. locality: Bonge village, S. Nyanza, Nyanza Province. remarks: Sown early February, harvested early August. Cultivated. Seed.
- PI 521095 donor id: 189. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 189. other id: NSL 184015. locality: Kaditonge village, S. Nyanza Province. remarks: Sown mid-February, harvested early August. Cultivated. Seed.
- PI 521096 donor id: 190. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 190. other id: NSL 184016. locality: Kaditonge village, S. Nyanza Province. remarks: Sown mid-February, harvested early August. Cultivated. Seed.
- PI 521097 donor id: 191. origin: Kenya. local name: Kumba. collected: 1978. collector id: 191. other id: NSL 184017. locality: Kaditonge village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested early August. Cultivated. Seed.
- PI 521098 donor id: 193. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 193. other id: NSL 184018. locality: Karabok village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521099 donor id: 194. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 194. other id: NSL 184019. locality: Komwoyo village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.
- PI 521100 donor id: 195. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 195. other id: NSL 184020. locality: Komwoyo village, S. Nyanza, Nyanza Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521101 donor id: 196. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 196. other id: NSL  
184021. locality: Gemo-remo village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested late  
July. Cultivated. Seed.
- PI 521102 donor id: 197. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 197. other id: NSL  
184022. locality: Gemo-remo village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested late  
July. Cultivated. Seed.
- PI 521103 donor id: 198. origin: Kenya. local name: Agriculture.  
collected: 1978. collector id: 198. other id: NSL  
184023. locality: Gemo-remo village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested late  
July. Cultivated. Seed.
- PI 521104 donor id: 199. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 199. other id: NSL  
184024. locality: Simbi village, S. Nyanza, Nyanza  
Province. remarks: Sown late February, harvested early  
July. Cultivated. Seed.
- PI 521105 donor id: 200. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 200. other id: NSL  
184025. locality: Simbi village, S. Nyanza, Nyanza  
Province. remarks: Sown late February, harvested early  
July. Cultivated. Seed.
- PI 521106 donor id: 201. origin: Kenya. local name: Thi-Thi.  
collected: 1978. collector id: 201. other id: NSL  
184026. locality: Simbi village, S. Nyanza, Nyanza  
Province. remarks: Sown late February, harvested early  
July. Cultivated. Seed.
- PI 521107 donor id: 202. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 202. other id: NSL  
184027. locality: Kadipo village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested mid-July.  
Cultivated. Seed.
- PI 521108 donor id: 203. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 203. other id: NSL  
184028. locality: Kadipo village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested mid-July.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521109 donor id: 204. origin: Kenya. local name: Agriculture.  
collected: 1978. collector id: 204. other id: NSL  
184029. locality: Kadipo village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested mid-July.  
Cultivated. Seed.
- PI 521110 donor id: 205. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 205. other id: NSL  
184030. locality: Rakwaro village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-March, harvested late July.  
Cultivated. Seed.
- PI 521111 donor id: 206. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 206. other id: NSL  
184031. locality: Rakwaro village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-March, harvested late July.  
Cultivated. Seed.
- PI 521112 donor id: 207. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 207. other id: NSL  
184032. locality: Rakwaro village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-March, harvested late July.  
Cultivated. Seed.
- PI 521113 donor id: 208. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 208. other id: NSL  
184033. locality: Rakwaro village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-March, harvested late July.  
Cultivated. Seed.
- PI 521114 donor id: 209. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 209. other id: NSL  
184034. locality: Rakwaro village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-March, harvested late July.  
Cultivated. Seed.
- PI 521115 donor id: 210. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 210. other id: NSL  
184035. locality: Kowour village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested late  
June. Cultivated. Seed.
- PI 521116 donor id: 211. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 211. other id: NSL  
184036. locality: Kowour village, Kisumu, Nyanza  
Province. remarks: Sown mid-February, harvested late  
June. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521117 donor id: 213. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 213. other id: NSL 184037. locality: Kamolo village, Kisumu, Nyanza Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 521118 donor id: 214. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 214. other id: NSL 184038. locality: Kamolo village, Kisumu, Nyanza Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 521119 donor id: 215. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 215. other id: NSL 184039. locality: Kamolo village, Kisumu, Nyanza Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 521120 donor id: 216. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 216. other id: NSL 184040. locality: Kamolo village, Kisumu, Nyanza Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 521121 donor id: 217. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 217. other id: NSL 184041. locality: Kamolo village, Kisumu, Nyanza Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 521122 donor id: 218. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 218. other id: NSL 184042. locality: Kamgeti village, Kisumu, Nyanza Province. remarks: Sown late February, harvested early June. Cultivated. Seed.
- PI 521123 donor id: 220. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 220. other id: NSL 184043. locality: Kamgeti village, Kisumu, Nyanza Province. remarks: Sown late February, harvested early June. Cultivated. Seed.
- PI 521124 donor id: 221. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 221. other id: NSL 184044. locality: Kamgeti village, Kisumu, Nyanza Province. remarks: Sown late February, harvested early June. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521125 donor id: 222. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 222. other id: NSL  
184045. locality: Kamgeti village, Kisumu, Nyanza  
Province. remarks: Sown late February, harvested early  
June. Cultivated. Seed.
- PI 521126 donor id: 223(T). origin: Kenya. local name: Arut.  
collected: 1978. collector id: 223(T). other id: NSL  
184046. locality: Odienea village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested late  
May. Cultivated. Seed.
- PI 521127 donor id: 224. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 224. other id: NSL  
184047. locality: Odienea village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested late  
June. Cultivated. Seed.
- PI 521128 donor id: 225. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 225. other id: NSL  
184048. locality: Odienea village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested late  
June. Cultivated. Seed.
- PI 521129 donor id: 226. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 226. other id: NSL  
184049. locality: Odienea village, Kisumu, Nyanza  
Province. remarks: Sown early February, harvested late  
June. Cultivated. Seed.
- PI 521130 donor id: 227. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 227. other id: NSL  
184050. locality: Odienea village, Kisumu, Nyanza  
Province. remarks: Sown late February, harvested early  
June. Cultivated. Seed.
- PI 521131 donor id: 228. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 228. other id: NSL  
184051. locality: Odienea village, Kisumu, Nyanza  
Province. remarks: Sown late February, harvested early  
June. Cultivated. Seed.
- PI 521132 donor id: 229. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 229. other id: NSL  
184052. locality: Odienea village, Kisumu, Nyanza  
Province. remarks: Sown late February, harvested early  
June. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521133 donor id: 230. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 230. other id: NSL 184053. locality: Odiénya village, Kisumu, Nyanza Province. remarks: Sown late February, harvested early June. Cultivated. Seed.
- PI 521134 donor id: 232. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 232. other id: NSL 184054. locality: Rata village, Kisumu, Nyanza Province. remarks: Sown late February, harvested mid-July. Cultivated. Seed.
- PI 521135 donor id: 233. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 233. other id: NSL 184055. locality: Rata village, Kisumu, Nyanza Province. remarks: Sown late February, harvested mid-July. Cultivated. Seed.
- PI 521136 donor id: 234. origin: Kenya. local name: Rachar. collected: 1978. collector id: 234. other id: NSL 184056. locality: Bar-Olengo village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521137 donor id: 235. origin: Kenya. local name: Nyamiwa. collected: 1978. collector id: 235. other id: NSL 184057. locality: Bar-Olengo village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521138 donor id: 236. origin: Kenya. local name: Nyaurang'. collected: 1978. collector id: 236. other id: NSL 184058. locality: Bar-Olengo village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521139 donor id: 237. origin: Kenya. local name: Ofunjo. collected: 1978. collector id: 237. other id: NSL 184059. locality: Bar-Olengo village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521140 donor id: 238. origin: Kenya. local name: Nyarkonyinyo. collected: 1978. collector id: 238. other id: NSL 184060. locality: Ogumba village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested late July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521141 donor id: 239. origin: Kenya. local name: Ofunjo.  
collected: 1978. collector id: 239. other id: NSL  
184061. locality: Ogumba village, Siaya, Nyanza  
Province. remarks: Sown mid-March, harvested late July.  
Cultivated. Seed.
- PI 521142 donor id: 240. origin: Kenya. local name: Ofunjo.  
collected: 1978. collector id: 240. other id: NSL  
184062. locality: Ogumba village, Siaya, Nyanza  
Province. remarks: Sown mid-March, harvested late July.  
Cultivated. Seed.
- PI 521143 donor id: 241. origin: Kenya. local name: Nyamiwa.  
collected: 1978. collector id: 241. other id: NSL  
184063. locality: Ogumba village, Siaya, Nyanza  
Province. remarks: Sown early April, harvested mid-July.  
Cultivated. Seed.
- PI 521144 donor id: 242. origin: Kenya. local name: Gopari.  
collected: 1978. collector id: 242. other id: NSL  
184064. locality: Ogumba village, Siaya, Nyanza  
Province. remarks: Sown early April, harvested late  
June. Cultivated. Seed.
- PI 521145 donor id: 243. origin: Kenya. local name: Nyakawadida.  
collected: 1978. collector id: 243. other id: NSL  
184065. locality: Opando village, Siaya, Nyanza  
Province. remarks: Sown early March, harvested mid-July.  
Cultivated. Seed.
- PI 521146 donor id: 244. origin: Kenya. local name: Lisi.  
collected: 1978. collector id: 244. other id: NSL  
184066. locality: Opando village, Siaya, Nyanza  
Province. remarks: Sown early March, harvested mid-July.  
Cultivated. Seed.
- PI 521147 donor id: 245. origin: Kenya. local name: Ofunjo.  
collected: 1978. collector id: 245. other id: NSL  
184067. locality: Opando village, Siaya, Nyanza  
Province. remarks: Sown early March, harvested mid-July.  
Cultivated. Seed.
- PI 521148 donor id: 246. origin: Kenya. local name: Ofunjo Hela.  
collected: 1978. collector id: 246. other id: NSL  
184068. locality: Opando village, Siaya, Nyanza  
Province. remarks: Sown early March, harvested  
early-July. Cultivated. Seed.



PI 520804 to 521327-continued

- PI 521149 donor id: 247. origin: Kenya. local name: Gopari. collected: 1978. collector id: 247. other id: NSL 184069. locality: Opando village, Siaya, Nyanza Province. remarks: Sown early March, harvested early-July. Cultivated. Seed.
- PI 521150 donor id: 248. origin: Kenya. local name: Nya-Uyoma. collected: 1978. collector id: 248. other id: NSL 184070. locality: Opando village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521151 donor id: 249. origin: Kenya. local name: Ogodo. collected: 1978. collector id: 249. other id: NSL 184071. locality: Opando village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521152 donor id: 250. origin: Kenya. local name: Rachar. collected: 1978. collector id: 250. other id: NSL 184072. locality: Opando village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521153 donor id: 252. origin: Kenya. local name: Nyar Ramula. collected: 1978. collector id: 252. other id: NSL 184073. locality: Seje village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.
- PI 521154 donor id: 253. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 253. other id: NSL 184074. locality: Seje village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.
- PI 521155 donor id: 254. origin: Kenya. local name: Lisi. collected: 1978. collector id: 254. other id: NSL 184075. locality: Seje village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.
- PI 521156 donor id: 255. origin: Kenya. local name: Ofunjo. collected: 1978. collector id: 255. other id: NSL 184076. locality: Seje village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521157 donor id: 256. origin: Kenya. local name: Rachar. collected: 1978. collector id: 256. other id: NSL 184077. locality: Sigoma village, Siaya, Nyanza Province. remarks: Sown early March, harvested early August. Cultivated. Seed.
- PI 521158 donor id: 257. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 257. other id: NSL 184078. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 521159 donor id: 258. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 258. other id: NSL 184079. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Sown late February, harvested early July. Cultivated. Seed.
- PI 521160 donor id: 259. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 259. other id: NSL 184080. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521161 donor id: 260. origin: Kenya. local name: Nyakitosi. collected: 1978. collector id: 260. other id: NSL 184081. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Originally from Mt. Elgon. Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521162 donor id: 261. origin: Kenya. local name: Othanre. collected: 1978. collector id: 261. other id: NSL 184082. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Sown early February, harvested mid-May. Cultivated. Seed.
- PI 521163 donor id: 262. origin: Kenya. local name: Nyakawadida. collected: 1978. collector id: 262. other id: NSL 184083. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521164 donor id: 263. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 263. other id: NSL 184084. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521165 donor id: 264. origin: Kenya. local name: Ofunjo. collected: 1978. collector id: 264. other id: NSL 184085. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521166 donor id: 265. origin: Kenya. local name: Andiwo. collected: 1978. collector id: 265. other id: NSL 184086. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521167 donor id: 266. origin: Kenya. local name: Hela. collected: 1978. collector id: 266. other id: NSL 184087. locality: Nyabanda village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521168 donor id: 267. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 267. other id: NSL 184088. locality: Nyangera village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-August. Cultivated. Seed.
- PI 521169 donor id: 268. origin: Kenya. local name: Lusi. collected: 1978. collector id: 268. other id: NSL 184089. locality: Nyangera village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-August. Cultivated. Seed.
- PI 521170 donor id: 269. origin: Kenya. local name: Ofunjo. collected: 1978. collector id: 269. other id: NSL 184090. locality: Nyangera village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521171 donor id: 270. origin: Kenya. local name: Ofunjo. collected: 1978. collector id: 270. other id: NSL 184091. locality: Nyangera village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521172 donor id: 271. origin: Kenya. local name: Lusi. collected: 1978. collector id: 271. other id: NSL 184092. locality: Nyangera village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521173 donor id: 272. origin: Kenya. local name: Ofunjo. collected: 1978. collector id: 272. other id: NSL 184093. locality: Nyangera village, Siaya, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 521174 donor id: 273. origin: Kenya. local name: Nyakawadida. collected: 1978. collector id: 273. other id: NSL 184094. locality: Kanyi-Bok village, Siaya, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521175 donor id: 274. origin: Kenya. local name: Nyatanganyika. collected: 1978. collector id: 274. other id: NSL 184095. locality: Kanyi-Bok village, Siaya, Nyanza Province. remarks: Originally from Tanzania. Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521176 donor id: 275. origin: Kenya. local name: Nyarkitosi. collected: 1978. collector id: 275. other id: NSL 184096. locality: Kanyi-Bok village, Siaya, Nyanza Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521177 donor id: 276. origin: Kenya. local name: Ofunjo. collected: 1978. collector id: 276. other id: NSL 184097. locality: Nyangera village, Siaya, Nyanza Province. remarks: Sown mid-February, harvested late June. Cultivated. Seed.
- PI 521178 donor id: 277. origin: Kenya. local name: Lusi. collected: 1978. collector id: 277. other id: NSL 184098. locality: Nyangera village, Siaya, Nyanza Province. remarks: Sown mid-February, harvested late June. Cultivated. Seed.
- PI 521179 donor id: 279. origin: Kenya. local name: Oloro. collected: 1978. collector id: 279. other id: NSL 184099. locality: Mwer village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521180 donor id: 280. origin: Kenya. local name: Othuwa. collected: 1978. collector id: 280. other id: NSL 184100. locality: Mwer village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521181 donor id: 281. origin: Kenya. local name: Nyakawadida. collected: 1978. collector id: 281. other id: NSL 184101. locality: Mwer village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521182 donor id: 282. origin: Kenya. local name: Ochuti. collected: 1978. collector id: 282. other id: NSL 184102. locality: Mwer village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521183 donor id: 283. origin: Kenya. local name: Othuwa. collected: 1978. collector id: 283. other id: NSL 184103. locality: Mwer-Sanda village, Siaya, Nyanza Province. remarks: Sown early April, harvested mid-July. Cultivated. Seed.
- PI 521184 donor id: 284. origin: Kenya. local name: Bwaja. collected: 1978. collector id: 284. other id: NSL 184104. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested early August. Cultivated. Seed.
- PI 521185 donor id: 285. origin: Kenya. local name: Othuwa. collected: 1978. collector id: 285. other id: NSL 184105. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.
- PI 521186 donor id: 286. origin: Kenya. local name: Lusi. collected: 1978. collector id: 286. other id: NSL 184106. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown mid-March, harvested mid-July. Cultivated. Seed.
- PI 521187 donor id: 287. origin: Kenya. local name: Nyakawadida. collected: 1978. collector id: 287. other id: NSL 184107. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521188 donor id: 288. origin: Kenya. local name: Rachar. collected: 1978. collector id: 288. other id: NSL 184108. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521189 donor id: 289. origin: Kenya. local name: Obundi. collected: 1978. collector id: 289. other id: NSL 184109. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521190 donor id: 290. origin: Kenya. local name: Obundi. collected: 1978. collector id: 290. other id: NSL 184110. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521191 donor id: 292. origin: Kenya. local name: Lusi. collected: 1978. collector id: 292. other id: NSL 184111. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521192 donor id: 293. origin: Kenya. local name: Rachar. collected: 1978. collector id: 293. other id: NSL 184112. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown early March, harvested early August. Cultivated. Seed.
- PI 521193 donor id: 294. origin: Kenya. local name: Ofunjo. collected: 1978. collector id: 294. other id: NSL 184113. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown early March, harvested early August. Cultivated. Seed.
- PI 521194 donor id: 295. origin: Kenya. local name: Lusi. collected: 1978. collector id: 295. other id: NSL 184114. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown early March, harvested early August. Cultivated. Seed.
- PI 521195 donor id: 297. origin: Kenya. collected: 1978. collector id: 297. other id: NSL 184116. locality: Mundika village, Busia, Western Province. Cultivated. Seed.
- PI 521196 donor id: 298. origin: Kenya. local name: Ranjay. collected: 1978. collector id: 298. other id: NSL 184117. locality: Otimongo village, Busia, Western Province. remarks: Sown early February, harvested mid-July. Cultivated. Seed.
- PI 521197 donor id: 299. origin: Kenya. local name: Nakhadabo. collected: 1978. collector id: 299. other id: NSL 184118. locality: Bugeng' village, Busia, Western Province. remarks: Sown early February, harvested late June. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521198 donor id: 300. origin: Kenya. local name: Soroti. collected: 1978. collector id: 300. other id: NSL 184119. locality: Bugeng' village, Busia, Western Province. remarks: Originally from Uganda. Sown early February, harvested mid-June. Cultivated. Seed.
- PI 521199 donor id: 301. origin: Kenya. local name: Amakhanyu. collected: 1978. collector id: 301. other id: NSL 184120. locality: Bugeng' village, Busia, Western Province. remarks: Originally from Uganda. Sown early February, harvested late June. Cultivated. Seed.
- PI 521200 donor id: 302. origin: Kenya. local name: Rachar. collected: 1978. other id: NSL 184121. locality: Maseno village, Busia, Western Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521201 donor id: 303. origin: Kenya. local name: Nakhhalole. collected: 1978. collector id: 303. other id: NSL 184122. locality: Maseno village, Busia, Western Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521202 donor id: 304. origin: Kenya. local name: Nefumo. collected: 1978. collector id: 304. other id: NSL 184123. locality: Maseno village, Busia, Western Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521203 donor id: 305. origin: Kenya. local name: Nakhhalole. collected: 1978. collector id: 305. other id: NSL 184124. locality: Maseno village, Busia, Western Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521204 donor id: 306. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: 306. other id: NSL 184125. locality: Mukwayo village, Busia, Western Province. remarks: Sown early February, harvested mid-July. Cultivated. Seed.
- PI 521205 donor id: 307. origin: Kenya. local name: Olusi. collected: 1978. collector id: 307. other id: NSL 184126. locality: Mukwayo village, Busia, Western Province. remarks: Sown early February, harvested late July. Cultivated. Seed.
- PI 521206 donor id: 310. origin: Kenya. local name: Wahama Warero. collected: 1978. collector id: 310. other id: NSL 184127. locality: Busira village, Busia, Western Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521207 donor id: 311. origin: Kenya. local name: Nasinyama. collected: 1978. collector id: 311. other id: NSL 184128. locality: Busira village, Busia, Western Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.
- PI 521208 donor id: 312. origin: Kenya. local name: Obunde. collected: 1978. collector id: 312. other id: NSL 184129. locality: Busira village, Busia, Western Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.
- PI 521209 donor id: 314. origin: Kenya. local name: Ekhumba. collected: 1978. collector id: 314. other id: NSL 184130. locality: Busira village, Busia, Western Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.
- PI 521210 donor id: 315. origin: Kenya. local name: Ibaridi. collected: 1978. collector id: 315. other id: NSL 184131. locality: Busira village, Busia, Western Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.
- PI 521211 donor id: 316. origin: Kenya. local name: Apeli. collected: 1978. collector id: 316. other id: NSL 184132. locality: Busira village, Busia, Western Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.
- PI 521212 donor id: 317. origin: Kenya. local name: Apeli. collected: 1978. collector id: 317. other id: NSL 184133. locality: Busira village, Busia, Western Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.
- PI 521213 donor id: 318. origin: Kenya. local name: Owalo. collected: 1978. collector id: 318. other id: NSL 184134. locality: Buhalalire village, Busia, Western Province. remarks: Sown mid-March, harvested late July. Cultivated. Seed.
- PI 521214 donor id: 319. origin: Kenya. local name: Sabena. collected: 1978. collector id: 319. other id: NSL 184135. locality: Buhuyi village, Busia, Western Province. remarks: Sown late March, harvested late July. Cultivated. Seed.



PI 520804 to 521327-continued

- PI 521215 donor id: 321. origin: Kenya. local name: Nabuchimbi. collected: 1978. collector id: 321. other id: NSL 184136. locality: Machakha village, Bungoma, Western Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.
- PI 521216 donor id: 322. origin: Kenya. local name: Wesisuye. collected: 1978. collector id: 322. other id: NSL 184137. locality: Kibindoyi village, Bungoma, Western Province. remarks: Sown mid-February, harvested late July. Cultivated. Seed.
- PI 521217 donor id: 323. origin: Kenya. local name: Ligwanga. collected: 1978. collector id: 323. other id: NSL 184138. locality: Kurshandet village, Bungoma, Western Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521218 donor id: 324. origin: Kenya. local name: Wesisuye. collected: 1978. collector id: 324. other id: NSL 184139. locality: Kurshandet village, Bungoma, Western Province. remarks: Sown mid-February, harvested early July. Cultivated. Seed.
- PI 521219 donor id: 325. origin: Kenya. local name: Libesemu. collected: 1978. collector id: 325. other id: NSL 184140. locality: Kurshandet village, Bungoma, Western Province. remarks: Sown early March, harvested late July. Cultivated. Seed.
- PI 521220 donor id: 326. origin: Kenya. local name: Katengu. collected: 1978. collector id: 326. other id: NSL 184141. locality: Kandae village, Kitui, Eastern Province. remarks: Sown late September, harvested late February. Cultivated. Seed.
- PI 521221 donor id: 327. origin: Kenya. local name: Mungomo. collected: 1978. collector id: 327. other id: NSL 184142. locality: Kandae village, Kitui, Eastern Province. remarks: Sown late September, harvested late February. Cultivated. Seed.
- PI 521222 donor id: 329. origin: Kenya. local name: Katengu. collected: 1978. collector id: 329. other id: NSL 184144. locality: Kandae village, Kitui, Eastern Province. remarks: Sown late September, harvested late February. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521223 donor id: 341. origin: Kenya. local name: Somalia.  
collected: 1978. collector id: 341. other id: NSL  
184146. locality: Musokini village, Kitui, Eastern  
Province. remarks: Originally from Somalia. Sown early  
November, harvested early March. Cultivated. Seed.
- PI 521224 donor id: 342. origin: Kenya. local name: Kaveta.  
collected: 1978. collector id: 342. other id: NSL  
184147. locality: Katingani village, Kitui, Eastern  
Province. remarks: Sown early September, harvested late  
February. Cultivated. Seed.
- PI 521225 donor id: 343. origin: Kenya. local name: Muwuu.  
collected: 1978. collector id: 343. other id: NSL  
184148. locality: Katingani village, Kitui, Eastern  
Province. remarks: Sown early September, harvested late  
February. Cultivated. Seed.
- PI 521226 donor id: 344. origin: Kenya. local name: Kamembasa.  
collected: 1978. collector id: 344. other id: NSL  
184149. locality: Kalisasi village, Kitui, Eastern  
Province. remarks: Originally from Mombasa. Sown early  
November, harvested early March. Cultivated. Seed.
- PI 521227 donor id: 345. origin: Kenya. local name: Muguu.  
collected: 1978. collector id: 345. other id: NSL  
184150. locality: Kalisasi village, Kitui, Eastern  
Province. remarks: Sown early November, harvested early  
March. Cultivated. Seed.
- PI 521228 donor id: 347. origin: Kenya. local name: Muguu.  
collected: 1978. collector id: 347. other id: NSL  
184152. locality: Kalisasi village, Kitui, Eastern  
Province. remarks: Sown early November, harvested late  
February. Cultivated. Seed.
- PI 521229 donor id: 348. origin: Kenya. local name: Kamombasa.  
collected: 1978. collector id: 348. other id: NSL  
184153. locality: Kalisasi village, Kitui, Eastern  
Province. remarks: Originally from Mombasa. Sown early  
November, harvested late February. Cultivated. Seed.
- PI 521230 donor id: 349. origin: Kenya. local name: Katengu.  
collected: 1978. collector id: 349. other id: NSL  
184154. locality: Musukini village, Kitui, Eastern  
Province. remarks: Sown October, harvested January.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521231 donor id: 350. origin: Kenya. local name: Muguu. collected: 1978. collector id: 350. other id: NSL 184155. locality: Musukini village, Kitui, Eastern Province. remarks: Sown November, harvested June. Cultivated. Seed.
- PI 521232 donor id: 351. origin: Kenya. local name: Mubemba. collected: 1978. collector id: 351. other id: NSL 184156. locality: Mbembani village, Machakos, Eastern Province. remarks: Sown November, harvested March. Cultivated. Seed.
- PI 521233 donor id: 352. origin: Kenya. local name: Manyalala. collected: 1978. collector id: 352. other id: NSL 184157. locality: Kivau village, Machakos, Eastern Province. remarks: Sown mid-November, harvested early March. Cultivated. Seed.
- PI 521234 donor id: 353. origin: Kenya. local name: Agriculture. collected: 1978. collector id: 353. other id: NSL 184158. locality: Kathioli village, Machakos, Eastern Province. remarks: Originally from Machakes. Sown late September, harvested July. Cultivated. Seed.
- PI 521235 donor id: 354. origin: Kenya. local name: Mukengia. collected: 1978. collector id: 354. other id: NSL 184159. locality: Kathioli village, Machakos, Eastern Province. remarks: Sown late September, harvested July. Cultivated. Seed.
- PI 521236 donor id: 355. origin: Kenya. local name: Kivila Kya Ivui. collected: 1978. collector id: 355. other id: NSL 184160. locality: Kathioli village, Machakos, Eastern Province. remarks: Sown late September, harvested July. Cultivated. Seed.
- PI 521237 donor id: 356. origin: Kenya. local name: Muthiikwa. collected: 1978. collector id: 356. other id: NSL 184161. locality: Kathioli village, Machakos, Eastern Province. remarks: Originally from Murang'a. Sown late September, harvested July. Cultivated. Seed.
- PI 521238 donor id: 358. origin: Kenya. local name: Mwea Mwololo. collected: 1978. collector id: 358. other id: NSL 184162. locality: Kyanguli village, Machakos, Eastern Province. remarks: Sown early November, harvested July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521239 donor id: 359. origin: Kenya. local name: Katumani. collected: 1978. collector id: 359. other id: NSL 184163. locality: Kyanguli village, Machakos, Eastern Province. remarks: Sown early November, harvested July. Cultivated. Seed.
- PI 521240 donor id: 360. origin: Kenya. local name: Mwea Mwololo. collected: 1978. collector id: 360. other id: NSL 184164. locality: Kyanguli village, Machakos, Eastern Province. remarks: Sown early October, harvested mid-March. Cultivated. Seed.
- PI 521241 donor id: 361. origin: Kenya. local name: Katumani. collected: 1978. collector id: 361. other id: NSL 184165. locality: Kyanguli village, Machakos, Eastern Province. remarks: Sown early October, harvested mid-March. Cultivated. Seed.
- PI 521242 donor id: 363. origin: Kenya. local name: Katolove. collected: 1978. collector id: 363. other id: NSL 184166. locality: Mutulani village, Machakos, Eastern Province. remarks: Sown late October, harvested late June. Cultivated. Seed.
- PI 521243 donor id: 364. origin: Kenya. local name: Mwei Umwe. collected: 1978. collector id: 364. other id: NSL 184167. locality: Kitaingo village, Machakos, Eastern Province. remarks: Sown March, harvested May. Cultivated. Seed.
- PI 521244 donor id: 365. origin: Kenya. local name: Katengu. collected: 1978. collector id: 365. other id: NSL 184168. locality: Matetani village, Machakos, Eastern Province. remarks: Sown late September, harvested May. Cultivated. Seed.
- PI 521245 donor id: 367. origin: Kenya. local name: Mutumburu. collected: 1978. collector id: 367. other id: NSL 184170. locality: Mbiuni village, Machakos, Eastern Province. remarks: Sown late September, harvested late March. Cultivated. Seed.
- PI 521246 donor id: 368. origin: Kenya. local name: Mukenja. collected: 1978. collector id: 368. other id: NSL 184171. locality: Mbiuni village, Machakos, Eastern Province. remarks: Sown late September, harvested late March. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521247 donor id: 369. origin: Kenya. local name: Muteng'u. collected: 1978. collector id: 369. other id: NSL 184172. locality: Makungaru village, Embu, Eastern Province. remarks: Sown November, harvested July. Cultivated. Seed.
- PI 521248 donor id: 370. origin: Kenya. local name: Gateng'u. collected: 1978. collector id: 370. other id: NSL 184173. locality: Gitiburi village, Embu, Eastern Province. remarks: Sown early November, harvested late June. Cultivated. Seed.
- PI 521249 donor id: 371. origin: Kenya. local name: Muthunga. collected: 1978. collector id: 371. other id: NSL 184174. locality: Gitiburi village, Embu, Eastern Province. remarks: Sown March, harvested early August. Cultivated. Seed.
- PI 521250 donor id: 372. origin: Kenya. local name: Muthirika. collected: 1978. collector id: 372. other id: NSL 184175. locality: Siakago village, Embu, Eastern Province. remarks: Sown November, harvested early June. Cultivated. Seed.
- PI 521251 donor id: 373. origin: Kenya. local name: Agriculture. collected: 1978. collector id: 373. other id: NSL 184176. locality: Ishiara village, Embu, Eastern Province. remarks: Sown October, harvested early February. Cultivated. Seed.
- PI 521252 donor id: 374. origin: Kenya. local name: Muya. collected: 1978. collector id: 374. other id: NSL 184177. locality: Kianyakah village, Embu, Eastern Province. remarks: Sown October, harvested July. Cultivated. Seed.
- PI 521253 donor id: 375. origin: Kenya. local name: Muya. collected: 1978. collector id: 375. other id: NSL 184178. locality: Nkumari village, Meru, Eastern Province. remarks: Sown October, harvested July. Cultivated. Seed.
- PI 521254 donor id: 376. origin: Kenya. local name: Muchuri. collected: 1978. collector id: 376. other id: NSL 184179. locality: Kamathuri village, Meru, Eastern Province. remarks: Sown October, harvested July. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521255 donor id: 377. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 377. other id: NSL  
184180. locality: Matetu village, Meru, Eastern  
Province. remarks: Sown October, harvested June.  
Cultivated. Seed.
- PI 521256 donor id: 378. origin: Kenya. local name: Muya Mutune.  
collected: 1978. collector id: 378. other id: NSL  
184181. locality: Matetu village, Meru, Eastern  
Province. remarks: Sown October, harvested June.  
Cultivated. Seed.
- PI 521257 donor id: 379. origin: Kenya. local name: Muya Mutune.  
collected: 1978. collector id: 379. other id: NSL  
184182. locality: Makandune village, Meru, Eastern  
Province. remarks: Sown October, harvested July.  
Cultivated. Seed.
- PI 521258 donor id: 380. origin: Kenya. local name: Muya Mweru.  
collected: 1978. collector id: 380. other id: NSL  
184183. locality: Kioru village, Meru, Eastern Province.  
remarks: Sown October, harvested May. Cultivated. Seed.
- PI 521259 donor id: 381. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 381. other id: NSL  
184184. locality: Ngushia village, Meru, Eastern  
Province. remarks: Sown October, harvested June.  
Cultivated. Seed.
- PI 521260 donor id: 382. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 382. other id: NSL  
184185. locality: Ruiga village, Meru, Eastern Province.  
remarks: Sown October, harvested July. Cultivated.  
Seed.
- PI 521261 donor id: 383. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 383. other id: NSL  
184186. locality: Ruiga village, Meru, Eastern Province.  
remarks: Sown October, harvested July. Cultivated.  
Seed.
- PI 521262 donor id: 384. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 384. other id: NSL  
184187. locality: Kithoka village, Meru, Eastern  
Province. remarks: Sown October, harvested July.  
Cultivated. Seed.
- PI 521263 donor id: 385. origin: Kenya. local name: Mugeta.  
collected: 1978. collector id: 385. other id: NSL  
184188. locality: Geto village, Meru, Eastern Province.  
remarks: Sown early March, harvested late July.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521264 donor id: 386. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 386. other id: NSL  
184189. locality: Geto village, Meru, Eastern Province.  
remarks: Sown early March, harvested late August.  
Cultivated. Seed.
- PI 521265 donor id: 387. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 387. other id: NSL  
184190. locality: Geto village, Meru, Eastern Province.  
remarks: Sown October, harvested August. Cultivated.  
Seed.
- PI 521266 donor id: 388. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 388. other id: NSL  
184191. locality: Geto village, Meru, Eastern Province.  
remarks: Sown October, harvested August. Cultivated.  
Seed.
- PI 521267 donor id: 389. origin: Kenya. local name: Mwee.  
collected: 1978. collector id: 389. other id: NSL  
184192. locality: Mituntu village, Meru, Eastern  
Province. remarks: Sown October, harvested August.  
Cultivated. Seed.
- PI 521268 donor id: 390. origin: Kenya. local name: Mwee.  
collected: 1978. collector id: 390. other id: NSL  
184193. locality: Mituntu village, Meru, Eastern  
Province. remarks: Sown October, harvested August.  
Cultivated. Seed.
- PI 521269 donor id: 391. origin: Kenya. local name: Mwee.  
collected: 1978. collector id: 391. other id: NSL  
184194. locality: Githuna village, Meru, Eastern  
Province. remarks: Sown February, harvested mid-August.  
Cultivated. Seed.
- PI 521270 donor id: 392. origin: Kenya. local name: Mwee.  
collected: 1978. collector id: 392. other id: NSL  
184195. locality: Githuna village, Meru, Eastern  
Province. remarks: Sown February, harvested mid-August.  
Cultivated. Seed.
- PI 521271 donor id: 393. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 393. other id: NSL  
184196. locality: Andubaita village, Meru, Eastern  
Province. remarks: Sown October, harvested August.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521272 donor id: 394. origin: Kenya. local name: Muyara. collected: 1978. collector id: 394. other id: NSL 184197. locality: Andubaita village, Meru, Eastern Province. remarks: Sown October, harvested August. Cultivated. Seed.
- PI 521273 donor id: 395. origin: Kenya. local name: Muhia. collected: 1978. collector id: 395. other id: NSL 184198. locality: Mugogoni village, Meru, Eastern Province. remarks: Sown October, harvested August. Cultivated. Seed.
- PI 521274 donor id: 397. origin: Kenya. local name: Muya. collected: 1978. collector id: 397. other id: NSL 184199. locality: Mbeu village, Meru, Eastern Province. remarks: Sown October, harvested August. Cultivated. Seed.
- PI 521275 donor id: 398. origin: Kenya. local name: Muya. collected: 1978. collector id: 398. other id: NSL 184200. locality: Mbeu village, Meru, Eastern Province. remarks: Sown March, harvested late August. Cultivated. Seed.
- PI 521276 donor id: 399. origin: Kenya. local name: Munyangi. collected: 1978. collector id: 399. other id: NSL 184201. locality: Githiari village, Meru, Eastern Province. remarks: Sown March, harvested late August. Cultivated. Seed.
- PI 521277 donor id: 400. origin: Kenya. local name: Muya. collected: 1978. collector id: 400. other id: NSL 184202. locality: Githiari village, Meru, Eastern Province. remarks: Sown September, harvested August. Cultivated. Seed.
- PI 521278 donor id: 401. origin: Kenya. collected: 1978. collector id: 401. other id: NSL 184203. locality: Muyanda village, Meru, Eastern Province. remarks: Sown October, harvested July. Cultivated. Seed.
- PI 521279 donor id: 402. origin: Kenya. local name: Mwee. collected: 1978. collector id: 402. other id: NSL 184204. locality: Akaiga village, Meru, Eastern Province. remarks: Sown October, harvested July. Cultivated. Seed.
- PI 521280 donor id: 403. origin: Kenya. local name: Muya. collected: 1978. collector id: 403. other id: NSL 184205. locality: Ikathe village, Meru, Eastern Province. remarks: Sown October, harvested August. Cultivated. Seed.



PI 520804 to 521327-continued

- PI 521281 donor id: 404. origin: Kenya. local name: Mwee.  
collected: 1978. collector id: 404. other id: NSL  
184206. locality: Antuamakia village, Meru, Eastern  
Province. remarks: Sown September, harvested July.  
Cultivated. Seed.
- PI 521282 donor id: 405. origin: Kenya. local name: Mwee.  
collected: 1978. collector id: 405. other id: NSL  
184207. locality: Karimakeru village, Meru, Eastern  
Province. remarks: Sown October, harvested August.  
Cultivated. Seed.
- PI 521283 donor id: 406. origin: Kenya. local name: Mwee.  
collected: 1978. collector id: 406. other id: NSL  
184208. locality: Muriri village, Meru, Eastern  
Province. remarks: Sown October, harvested August.  
Cultivated. Seed.
- PI 521284 donor id: 407. origin: Kenya. local name: Muya Mutune.  
collected: 1978. collector id: 407. other id: NSL  
184209. locality: Kiborione village, Meru, Eastern  
Province. remarks: Sown October, harvested August.  
Cultivated. Seed.
- PI 521285 donor id: 408. origin: Kenya. local name: Muya.  
collected: 1978. collector id: 408. other id: NSL  
184210. locality: Kiborione village, Meru, Eastern  
Province. remarks: Sown October, harvested August.  
Cultivated. Seed.
- PI 521286 donor id: 409A. origin: Kenya. local name: Kathamari.  
collected: 1978. collector id: 409A. other id: NSL  
184211. locality: Kiborione village, Meru, Eastern  
Province. remarks: Sown October, harvested August.  
Cultivated. Seed.
- PI 521287 donor id: 409B. origin: Kenya. collected: 1978.  
collector id: 409B. other id: NSL 184212. locality:  
Lanet village, Nakuru, Rift Valley. Cultivated. Seed.
- PI 521288 donor id: 409C. origin: Kenya. collected: 1978.  
collector id: 409C. other id: NSL 184213. locality:  
Lanet village, Nakuru, Rift Valley. Cultivated. Seed.
- PI 521289 donor id: 411. origin: Kenya. local name: Saidi.  
collected: 1978. collector id: 411. other id: NSL  
184214. locality: Mokowe village, Lamu, Coast Province.  
remarks: Sown early April, harvested early July.  
Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521290 donor id: 412. origin: Kenya. local name: Bishehe. collected: 1978. collector id: 412. other id: NSL 184215. locality: Kiongoai village, Lamu, Coast Province. remarks: Sown early April, harvested early August. Cultivated. Seed.
- PI 521291 donor id: 413. origin: Kenya. local name: Muhia. collected: 1978. collector id: 413. other id: NSL 184216. locality: L. Kenyatta village, Lamu, Coast Province. remarks: Sown mid-April, harvested early August. Cultivated. Seed.
- PI 521292 donor id: 414. origin: Kenya. local name: Muhia. collected: 1978. collector id: 414. other id: NSL 184217. locality: L. Kenyatta village, Lamu, Coast Province. remarks: Sown early April, harvested early August. Cultivated. Seed.
- PI 521293 donor id: 415. origin: Kenya. local name: Muhia. collected: 1978. collector id: 415. other id: NSL 184218. locality: L. Kenyatta village, Lamu, Coast Province. remarks: Sown early April, harvested early August. Cultivated. Seed.
- PI 521294 donor id: 417. origin: Kenya. local name: Muhia. collected: 1978. collector id: 417. other id: NSL 184219. locality: Mpekatoni village, Lamu, Coast Province. remarks: Originally from Tana River. Sown mid-April, harvested early July. Cultivated. Seed.
- PI 521295 donor id: 418. origin: Kenya. collected: 1978. collector id: 418. other id: NSL 184220. locality: Hongwe village, Lamu, Coast Province. remarks: Sown mid-April, harvested early August. Cultivated. Seed.
- PI 521296 donor id: 419. origin: Kenya. local name: Muhia. collected: 1978. collector id: 419. other id: NSL 184221. locality: Hongwe village, Lamu, Coast Province. remarks: Sown mid-April, harvested early August. Cultivated. Seed.
- PI 521297 donor id: 420. origin: Kenya. local name: Muhawi. collected: 1978. collector id: 420. other id: NSL 184222. locality: Manda Is., Lamu, Coast Province. remarks: Sown mid-April, harvested early August. Cultivated. Seed.
- PI 521298 donor id: 421. origin: Kenya. local name: Bishehe. collected: 1978. collector id: 421. other id: NSL 184223. locality: Manda Is., Lamu, Coast Province. remarks: Sown mid-April, harvested early August. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521299 donor id: 423. origin: Kenya. local name: Muhema. collected: 1978. collector id: 423. other id: NSL 184224. locality: Shauri-Moyo village, Malindi, Coast Province. remarks: Sown early April, harvested mid-August. Cultivated. Seed.
- PI 521300 donor id: 424. origin: Kenya. local name: Muhema. collected: 1978. collector id: 424. other id: NSL 184225. locality: Shauri-Moyo village, Malindi, Coast Province. remarks: Sown late April, harvested mid-August. Cultivated. Seed.
- PI 521301 donor id: 425. origin: Kenya. local name: Muhema. collected: 1978. collector id: 425. other id: NSL 184226. locality: Shauri-Moyo village, Malindi, Coast Province. remarks: Sown late April, harvested mid-August. Cultivated. Seed.
- PI 521302 donor id: 426. origin: Kenya. local name: Kilache. collected: 1978. collector id: 426. other id: NSL 184227. locality: Sosoni village, Malindi, Coast Province. remarks: Sown late March, harvested early August. Cultivated. Seed.
- PI 521303 donor id: 427. origin: Kenya. local name: Muhama. collected: 1978. collector id: 427. other id: NSL 184228. locality: Sosoni village, Malindi, Coast Province. remarks: Sown late March, harvested early August. Cultivated. Seed.
- PI 521304 donor id: 028. origin: Kenya. local name: Kitongololo. collected: 1978. collector id: 428. other id: NSL 184229. locality: Mitsemerini village, Kilifi, Coast Province. remarks: Sown late April, harvested mid-August. Cultivated. Seed.
- PI 521305 donor id: 429. origin: Kenya. local name: Kilache. collected: 1978. collector id: 429. other id: NSL 184230. locality: Mitsemerini village, Kilifi, Coast Province. remarks: Sown late April, harvested mid-August. Cultivated. Seed.
- PI 521306 donor id: 430. origin: Kenya. local name: Kilache. collected: 1978. collector id: 430. other id: NSL 184231. locality: Mitsemerini village, Kilifi, Coast Province. remarks: Sown late April, harvested mid-August. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521307 donor id: 431. origin: Kenya. local name: Mengawa. collected: 1978. collector id: 431. other id: NSL 184232. locality: Petanguwo village, Kilifi, Coast Province. remarks: Sown early May, harvested mid-August. Cultivated. Seed.
- PI 521308 donor id: 435. origin: Kenya. collected: 1978. collector id: 435. other id: NSL 184233. locality: Msambweni village, Kwale, Coast Province. remarks: Sown April, harvested mid-August. Cultivated. Seed.
- PI 521309 donor id: 437. origin: Kenya. local name: Engumba. collected: 1978. collector id: 437. other id: NSL 184234. locality: Mamba village, Kwale, Coast Province. remarks: Originally from Kakamega. Sown early February, harvested August. Cultivated. Seed.
- PI 521310 donor id: 438. origin: Kenya. local name: Kisudi. collected: 1978. collector id: 438. other id: NSL 184235. locality: Mamba village, Kwale, Coast Province. remarks: Sown early February, harvested August. Cultivated. Seed.
- PI 521311 donor id: 439. origin: Kenya. local name: Kauwe. collected: 1978. collector id: 439. other id: NSL 184236. locality: Mamba village, Kwale, Coast Province. remarks: Sown early March, harvested August. Cultivated. Seed.
- PI 521312 donor id: 440. origin: Kenya. local name: Mwemba. collected: 1978. collector id: 440. other id: NSL 184237. locality: Kamleza village, Taita, Coast Province. remarks: Sown mid-March, harvested late July. Cultivated. Seed.
- PI 521313 donor id: 441. origin: Kenya. local name: Mwemba. collected: 1978. collector id: 441. other id: NSL 184238. locality: Kamleza village, Taita, Coast Province. remarks: Sown mid-March, harvested late July. Cultivated. Seed.
- PI 521314 donor id: 443. origin: Kenya. local name: Mtama. collected: 1978. collector id: 443. other id: NSL 184239. locality: Timbila village, Taita, Coast Province. remarks: Sown late September, harvested August. Cultivated. Seed.
- PI 521315 donor id: 444. origin: Kenya. local name: Mwemba. collected: 1978. collector id: 444. other id: NSL 184240. locality: Rukanga village, Taita, Coast Province. remarks: Sown mid-March, harvested late June. Cultivated. Seed.

PI 520804 to 521327-continued

- PI 521316 donor id: 445. origin: Kenya. collected: 1978.  
collector id: 445. other id: NSL 184241. locality:  
Rukanga village, Taita, Coast Province. remarks: Sown  
mid-March, harvested late June. Cultivated. Seed.
- PI 521317 donor id: 446. origin: Kenya. collected: 1978.  
collector id: 446. other id: NSL 184242. locality:  
Rukanga village, Taita, Coast Province. remarks: Sown  
mid-March, harvested August. Cultivated. Seed.
- PI 521318 donor id: 447. origin: Kenya. collected: 1978.  
collector id: 447. other id: NSL 184243. locality:  
Rukanga village, Taita, Coast Province. remarks:  
Originally from Machakos. Sown mid-March, harvested  
August. Cultivated. Seed.
- PI 521319 donor id: 448. origin: Kenya. local name: Mtama.  
collected: 1978. collector id: 448. other id: NSL  
184244. locality: Jora village, Taita, Coast Province.  
remarks: Sown mid-March, harvested July. Cultivated.  
Seed.
- PI 521320 donor id: 449. origin: Kenya. local name: Mwakai.  
collected: 1978. collector id: 449. other id: NSL  
184245. locality: Mdanda village, Taita, Coast Province.  
remarks: Sown September, harvested February. Cultivated.  
Seed.
- PI 521321 donor id: 450. origin: Kenya. local name: Mtama.  
collected: 1978. collector id: 450. other id: NSL  
184246. locality: Mdanda village, Taita, Coast Province.  
remarks: Originally from Kitui. Sown September, harvested  
late December. Cultivated. Seed.
- PI 521322 donor id: 451. origin: Kenya. local name: Agriculture.  
collected: 1978. collector id: 451. other id: NSL  
184247. locality: Tausa village, Taita, Coast Province.  
remarks: Originally from Murang'a. Sown early March,  
harvested mid-May. Cultivated. Seed.
- PI 521323 donor id: 452. origin: Kenya. local name: Mtama.  
collected: 1978. collector id: 452. other id: NSL  
184248. locality: Ghazi village, Taita, Coast Province.  
remarks: Sown late April, harvested early August.  
Cultivated. Seed.
- PI 521324 donor id: 454. origin: Kenya. local name: Ngombo.  
collected: 1978. collector id: 454. other id: NSL  
184249. locality: Sirienya village, Taita, Coast  
Province. remarks: Sown November, harvested May.  
Cultivated. Seed.

PI 520804 to 521327-continued

PI 521325 donor id: 455. origin: Kenya. local name: Ngombo.  
collected: 1978. collector id: 455. other id: NSL  
184250. locality: Msanganyiko village, Taita, Coast  
Province. remarks: Sown early December, harvested late  
February. Cultivated. Seed.

PI 521326 donor id: 456. origin: Kenya. local name: Ngombo.  
collected: 1978. collector id: 456. other id: NSL  
184251. locality: Mambura village, Taita, Coast  
Province. remarks: Sown December, harvested June.  
Cultivated. Seed.

PI 521327 donor id: 457. origin: Kenya. local name: Mtama.  
collected: 1978. collector id: 457. other id: NSL  
184252. locality: Taveta village, Taita, Coast Province.  
Cultivated. Seed.

PI 521328 to 521358. Sorghum x drummondii (Nees ex Steudel) Millsp. &  
Chase POACEAE Sorghum

Donated by: Denton, I.R., IBPGR, Rome, Italy; and Toll, J.A., IBPGR,  
Rome, Italy. remarks: Received through IBPGR, Rome, Italy.  
Received 1978.

PI 521328 donor id: 005A/1. origin: Kenya. collected: 1978.  
collector id: 005A/1. other id: NSL 184283. locality:  
Naera village, Busia, Western Province. Wild. Seed.

PI 521329 donor id: 008A. origin: Kenya. collected: 1978.  
collector id: 008A. other id: NSL 184284. locality:  
Wakhuaga village, Busia, Western Province. Wild. Seed.

PI 521330 donor id: 012A. origin: Kenya. collected: 1978.  
collector id: 012A. other id: NSL 184285. locality:  
Budabu village, Busia, Western Province. Wild. Seed.

PI 521331 donor id: 035A. origin: Kenya. collected: 1978.  
collector id: 035A. other id: NSL 184286. locality:  
Bulimbo village, Kakamega, Western Province. Wild.  
Seed.

PI 521332 donor id: 041A. origin: Kenya. local name: Ekhumba.  
collected: 1978. collector id: 041A. other id: NSL  
184287. locality: Matungu village, Kakamega, Western  
Province. Wild. Seed.

PI 521333 donor id: 003. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 003. other id: NSL  
184288. locality: Karateng village, Kisumu, Nyanza  
Province. Wild. Seed.

PI 521328 to 521358-continued

- PI 521334 donor id: 008. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 008. other id: NSL  
184289. locality: Marera village, Kisumu, Nyanza  
Province. Wild. Seed.
- PI 521335 donor id: 012. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 012. other id: NSL  
184290. locality: Nyaboyo village, Kisumu, Nyanza  
Province. Wild. Seed.
- PI 521336 donor id: 017. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 017. other id: NSL  
184291. locality: Kokiri village, Kisumu, Nyanza  
Province. Wild. Seed.
- PI 521337 donor id: 099. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 099. other id: NSL  
184292. locality: Ndiwa village, S. Nyanza, Nyanza  
Province. Wild. Seed.
- PI 521338 donor id: 152. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 152. other id: NSL  
184293. locality: Kirindo village, S. Nyanza, Nyanza  
Province. Wild. Seed.
- PI 521339 donor id: 153. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 153. other id: NSL  
184294. locality: Kirindo village, S. Nyanza, Nyanza  
Province. Wild. Seed.
- PI 521340 donor id: 156. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 156. other id: NSL  
184295. locality: Warengu village, Rusinga Is., Nyanza  
Province. Wild. Seed.
- PI 521341 donor id: 157. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 157. other id: NSL  
184296. locality: Warengu village, Rusinga Is., Nyanza  
Province. Wild. Seed.
- PI 521342 donor id: 161. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 161. other id: NSL  
184297. locality: Gunda village, Rusinga Is., Nyanza  
Province. Wild. Seed.
- PI 521343 donor id: 166. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 166. other id: NSL  
184298. locality: Wayembe village, Rusinga Is., Nyanza  
Province. Wild. Seed.

PI 521328 to 521358-continued

- PI 521344 donor id: 167. origin: Kenya. local name: Ochuti.  
collected: 1978. collector id: 167. other id: NSL  
184299. locality: Kadacha village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested August.  
Cultivated. Seed.
- PI 521345 donor id: 168. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 168. other id: NSL  
184300. locality: Kawour village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested August.  
Cultivated. Seed.
- PI 521346 donor id: 169. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 169. other id: NSL  
184301. locality: Ombasa village, S. Nyanza, Nyanza  
Province. remarks: Sown late February, harvested August.  
Cultivated. Seed.
- PI 521347 donor id: 170. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 170. other id: NSL  
184302. locality: Nyandiwa village, S. Nyanza, Nyanza  
Province. remarks: Sown early February, harvested early  
August. Cultivated. Seed.
- PI 521348 donor id: 171. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 171. other id: NSL  
184303. locality: Kowinda village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested late  
August. Cultivated. Seed.
- PI 521349 donor id: 172. origin: Kenya. local name: Andiwo.  
collected: 1978. collector id: 172. other id: NSL  
184304. locality: Kowinda village, S. Nyanza, Nyanza  
Province. remarks: Sown early March, harvested late  
August. Cultivated. Seed.
- PI 521350 donor id: 188. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 188. other id: NSL  
184305. locality: Bonge village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested August.  
Wild. Seed.
- PI 521351 donor id: 192. origin: Kenya. local name: Ogolo.  
collected: 1978. collector id: 192. other id: NSL  
184306. locality: Kaditonge village, S. Nyanza, Nyanza  
Province. remarks: Sown mid-February, harvested August.  
Wild. Seed.



PI 521328 to 521358-continued

- PI 521352 donor id: 212. origin: Kenya. local name: Ogolo. collected: 1978. collector id: 212. other id: NSL 184307. locality: Ombaka village, Kisumu, Nyanza Province. remarks: Sown mid-February, harvested August. Wild. Seed.
- PI 521353 donor id: 231. origin: Kenya. local name: Ogolo. collected: 1978. collector id: 231. other id: NSL 184308. locality: Rata village, Kisumu, Nyanza Province. remarks: Sown mid-February, harvested August. Wild. Seed.
- PI 521354 donor id: 291. origin: Kenya. local name: Ogolo. collected: 1978. collector id: 291. other id: NSL 184309. locality: Ung'oma village, Siaya, Nyanza Province. remarks: Sown mid-February, harvested August. Wild. Seed.
- PI 521355 donor id: 308. origin: Kenya. collected: 1978. collector id: 308. other id: NSL 184310. locality: Mukwayo village, Busia, Western Province. remarks: Sown mid-February, harvested August. Wild. Seed.
- PI 521356 donor id: 357. origin: Kenya. collected: 1978. collector id: 357. other id: NSL 184311. locality: Machakos village, Machakos, Eastern Province. remarks: Sown mid-February, harvested August. Wild. Seed.
- PI 521357 donor id: 362. origin: Kenya. local name: Witiki. collected: 1978. collector id: 362. other id: NSL 184312. locality: Kyanguli village, Machakos, Eastern village. Wild. Seed.
- PI 521358 donor id: 416. origin: Kenya. collected: 1978. collector id: 416. other id: NSL 184313. locality: Mpekatoni village, Lamu, Eastern Province. remarks: Sown mid-February, harvested August. Wild. Seed.

PI 521359 to 521360. *Oryza sativa* L. POACEAE Rice

Donated by: Nowick, E. and Groth, D.E., Rice Research Station, Louisiana Agricultural Exp. Station, Louisiana State University Agri. Center, Crowley, Louisiana, United States. Received March 08, 1988.

PI 521359 to 521360-continued

PI 521359 donor id: 86PR6554. origin: United States. pedigree: F5 Lemont (PI 475833)\*3/Tetep (PI 280682). remarks: Plants short, .92m tall. Maturity early. Glabrous. Cooking quality typical of U.S. long grain. Grains small, 10.3mm in length, 3.4mm width. disease resistance: Moderate to sheath blight (*Thanatephorus cucumeris*). Breeding Material. Seed.

PI 521360 donor id: 86PR6555. origin: United States. pedigree: F5 Lemont (PI 475833)\*3/Tetep (PI 280682). other id: GP-66. group: CSR-RICE. remarks: Plants short, .92m tall. Maturity early. Glabrous. Cooking quality typical of U.S. long grain. Grains small, 10.3mm in length, 3.4mm width. disease resistance: Moderate to sheath blight (*Thanatephorus cucumeris*). Breeding Material. Seed.

PI 521361 to 521363. *Arachis hypogaea* L. FABACEAE Peanut

Donated by: Rabakoarihanta, A., Centre National de la Recherche, Appliquee au Develop. Rural FOFIFA, B.P. 1444, 101 Antananarivo, Madagascar. remarks: Received through IBPGR, Rome, Italy. Received April 1985.

PI 521361 donor id: Ar. 01. origin: Madagascar. origin institute: FOFIFA, Antananarivo. local name: Menakely. collected: May 27, 1984. collector: A. Rabakoarihanta. collector id: Ar. 01. locality: Farmland near Andreba in direction of Ambato-Merimandroso, Tamatave Province. latitude: 17 deg. 30 min. S. longitude: 48 deg. 30 min. E. elevation: 850m. remarks: Sown January-February, harvested March-April. Used for cooking. Landrace. Seed.

PI 521362 donor id: Ar. 02. origin: Madagascar. origin institute: FOFIFA, Antananarivo. local name: Voanjo Vanga. collected: May 27, 1984. collector: A. Rabakoarihanta. collector id: Ar. 02. locality: Near Andreba in direction of Ambato-Merimandroso, Tamatave Province. latitude: 17 deg. 30 min. S. longitude: 48 deg. 30 min. E. elevation: 850m. remarks: Sown December-January, harvested April-May. Used for cooking. Landrace. Seed.

PI 521363 donor id: Ar. 03. origin: Madagascar. origin institute: FOFIFA, Antananarivo. local name: Menakely. collected: May 17, 1984. collector: A. Rabakoarihanta. collector id: Ar. 03. locality: Soavina, near Ambatomanoina, Tananarive Province. latitude: 18 deg. 19 min. S. longitude: 47 deg. 37 min. E. elevation: 900m. remarks: Sown January, harvested May. Used for cooking. Landrace. Seed.

PI 521364 to 521610. *Eleusine coracana* (L.) Gaertn. POACEAE Finger millet

**Donated by:** Denton, I.R., IBPGR, Rome, Italy; and Toll, J.A., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received 1978.

PI 521364 **donor id:** 001. **origin:** Kenya. **collector id:** 001. **other id:** NSL 184401. **locality:** Omulalu village, Kakamega, Western Province. **remarks:** Sown late February, harvested late June. Cultivated. Seed.

PI 521365 **donor id:** 002. **origin:** Kenya. **local name:** Bweluma. **collector id:** 002. **other id:** NSL 184402. **locality:** Omulalu village, Kakamega, Western Province. **remarks:** Sown late February, harvested late June. Cultivated. Seed.

PI 521366 **donor id:** 003. **origin:** Kenya. **local name:** Amakhuyu. **collector id:** 003. **other id:** NSL 184403. **locality:** Umiru village, Kakamega, Western Province. **remarks:** Sown April, harvested August. Cultivated. Seed.

PI 521367 **donor id:** 004. **origin:** Kenya. **local name:** Kal. **collector id:** 004. **other id:** NSL 184404. **locality:** Rangala village, Siaya, Nyanza Province. **remarks:** Sown February, harvested June. Cultivated. Seed.

PI 521368 **donor id:** 005. **origin:** Kenya. **local name:** Makonge. **collector id:** 005. **other id:** NSL 184405. **locality:** Bumala village, Busia, Western Province. **remarks:** Sown February, harvested June. Cultivated. Seed.

PI 521369 **donor id:** 006. **origin:** Kenya. **local name:** Namala. **collector id:** 006. **other id:** NSL 184406. **locality:** Bumala village, Busia, Western Province. **remarks:** Sown February, harvested late June. Cultivated. Seed.

PI 521370 **donor id:** 007. **origin:** Kenya. **local name:** Nafusi. **collector id:** 007. **other id:** NSL 184407. **locality:** Bumala village, Busia, Western Province. **remarks:** Sown February, harvested late June. Cultivated. Seed.

PI 521371 **donor id:** 008. **origin:** Kenya. **local name:** Namala. **collector id:** 008. **other id:** NSL 184408. **locality:** Makonge village, Busia, Western Province. **remarks:** Sown late February, harvested late June. Cultivated. Seed.

PI 521372 **donor id:** 009. **origin:** Kenya. **local name:** Indere. **collector id:** 009. **other id:** NSL 184409. **locality:** Namakoli village, Busia, Western Province. **remarks:** Sown March, harvested July. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521373 donor id: 010. origin: Kenya. local name: Achaki.  
collector id: 010. other id: NSL 184410. locality:  
Naera village, Busia, Western Province. remarks: Sown  
February, harvested June. Cultivated. Seed.
- PI 521374 donor id: 011. origin: Kenya. local name: Namadete.  
collector id: 011. other id: NSL 184411. locality:  
Sifugwe village, Busia, Western Province. remarks: Sown  
early February, harvested mid-June. Cultivated. Seed.
- PI 521375 donor id: 012. origin: Kenya. local name: Rachari.  
collector id: 012. other id: NSL 184412. locality:  
Nanderema village, Busia, Western Province. remarks:  
Sown late February, harvested late June. Cultivated.  
Seed.
- PI 521376 donor id: 014. origin: Kenya. local name: Nafusi.  
collector id: 014. other id: NSL 184413. locality:  
Nanderema village, Busia, Western Province. remarks:  
Sown late February, harvested late June. Cultivated.  
Seed.
- PI 521377 donor id: D001A. origin: Kenya. local name: Namata.  
collector id: D001A. other id: NSL 183898. locality:  
Obore village, Busia, Western Province. remarks:  
Originally from Uganda. Sown late February, harvested  
late June. Cultivated. Seed.
- PI 521378 donor id: D002A. origin: Kenya. local name:  
Nabakhareke. collector id: D002A. other id: NSL 184414.  
locality: Obore village, Busia, Western Province.  
remarks: Originally from Kisumu. Sown late February,  
harvested late June. Cultivated. Seed.
- PI 521379 donor id: D003A. origin: Kenya. local name: Nafusi.  
collector id: D003A. other id: NSL 184415. locality:  
Obore village, Busia, Western Province. remarks: Sown  
late February, harvested late June. Cultivated. Seed.
- PI 521380 donor id: D004A. origin: Kenya. local name: Nafusi.  
collector id: D004A. other id: NSL 184416. locality:  
Okumu village, Busia, Western Province. remarks:  
Originally from Kakamega. Sown early March, harvested  
June. Cultivated. Seed.
- PI 521381 donor id: D005A. origin: Kenya. local name: Opuniti.  
collector id: D005A. other id: NSL 184417. locality:  
Okumu village, Busia, Western Province. remarks:  
Originally from Uganda. Sown February, harvested June.  
Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521382 donor id: D006A. origin: Kenya. local name: Makonge. collector id: D006A. other id: NSL 184418. locality: Sidende village, Busia, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.
- PI 521383 donor id: D007A. origin: Kenya. local name: Namala. collector id: D007A. other id: NSL 184419. locality: Sidende village, Busia, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.
- PI 521384 donor id: D008A. origin: Kenya. local name: Khayoni. collector id: D008A. other id: NSL 184420. locality: Matende village, Busia, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.
- PI 521385 donor id: D009A. origin: Kenya. local name: Nakhafereke. collector id: D009A. other id: NSL 184421. locality: Lugulu village, Busia, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521386 donor id: D010A. origin: Kenya. local name: Yikhulule. collector id: D010A. other id: NSL 184422. locality: Butula village, Busia, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521387 donor id: D011A. origin: Kenya. local name: Yikhulule. collector id: D011A. other id: NSL 184423. locality: Butula village, Busia, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521388 donor id: D012A. origin: Kenya. local name: Makonge. collector id: D012A. other id: NSL 184424. locality: Butula village, Busia, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521389 donor id: D013A. origin: Kenya. local name: Afusa. collector id: D013A. other id: NSL 184425. locality: Butula village, Busia, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521390 donor id: D014A. origin: Kenya. local name: Rachare. collector id: D014A. other id: NSL 184426. locality: Butula village, Busia, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521391 donor id: D015A. origin: Kenya. collector id: D015A. other id: NSL 184427. locality: Butula village, Busia, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521392 donor id: D016A. origin: Kenya. local name: Oure.  
collector id: D016A. other id: NSL 184428. locality:  
Nyambula village, Busia, Western Province. remarks: Sown  
mid-February, harvested late June. Cultivated. Seed.
- PI 521393 donor id: D017A. origin: Kenya. local name: Rachar.  
collector id: D017A. other id: NSL 184429. locality:  
Matayos village, Busia, Western Province. remarks: Sown  
mid-February, harvested late June. Cultivated. Seed.
- PI 521394 donor id: D018A. origin: Kenya. local name: Rateng'.  
collector id: D018A. other id: NSL 184430. locality:  
Matayos village, Busia, Western Province. remarks: Sown  
early February, harvested late June. Cultivated. Seed.
- PI 521395 donor id: 015. origin: Kenya. local name: Emomwari.  
collector id: 015. other id: NSL 184431. locality:  
Asinge village, Busia, Western Province. remarks: Sown  
early February, harvested late June. Cultivated. Seed.
- PI 521396 donor id: 016. origin: Kenya. local name: Apalati.  
collector id: 016. other id: NSL 184432. locality:  
Asinge village, Busia, Western Province. remarks: Sown  
early February, harvested late June. Cultivated. Seed.
- PI 521397 donor id: 017. origin: Kenya. local name: Nyatapala.  
collector id: 017. other id: NSL 184433. locality:  
Akoreti village, Busia, Western Province. remarks: Sown  
mid-March, harvested late June. Cultivated. Seed.
- PI 521398 donor id: 018. origin: Kenya. local name: Osialaka.  
collector id: 018. other id: NSL 184434. locality:  
Apokoro village, Busia, Western Province. remarks: Sown  
mid-February, harvested late June. Cultivated. Seed.
- PI 521399 donor id: 019. origin: Kenya. local name: Emomari.  
collector id: 019. other id: NSL 184435. locality:  
Apokoro village, Busia, Western Province. remarks: Sown  
mid-February, harvested late June. Cultivated. Seed.
- PI 521400 donor id: 020. origin: Kenya. local name: Ebunet.  
collector id: 020. other id: NSL 184436. locality:  
Apokoro village, Busia, Western Province. remarks: Sown  
mid-February, harvested late June. Cultivated. Seed.
- PI 521401 donor id: 021. origin: Kenya. local name: Arani.  
collector id: 021. other id: NSL 184437. locality:  
Jairosi village, Busia, Western Province. remarks: Sown  
early February, harvested late June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521402 donor id: 022. origin: Kenya. collector id: 022. other id: NSL 184438. locality: Jairoso village, Busia, Western Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 521403 donor id: 023. origin: Kenya. local name: Emomwari. collector id: 023. other id: NSL 184439. locality: Koturu village, Busia, Western Province. remarks: Sown mid-March, harvested late June. Cultivated. Seed.
- PI 521404 donor id: 024. origin: Kenya. local name: Ebuniti. collector id: 024. other id: NSL 184440. locality: Koturu village, Busia, Western Province. remarks: Sown mid-March, harvested late June. Cultivated. Seed.
- PI 521405 donor id: 025. origin: Kenya. local name: Khulule. collector id: 025. other id: NSL 184441. locality: Kanduyi village, Bungoma, Western Province. remarks: Sown mid-March, harvested late June. Cultivated. Seed.
- PI 521406 donor id: 026. origin: Kenya. local name: Busike. collector id: 026. other id: NSL 184442. locality: Atuti village, Bungoma, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521407 donor id: 027. origin: Kenya. local name: Namagi. collector id: 027. other id: NSL 184443. locality: Tutii village, Bungoma, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521408 donor id: 028. origin: Kenya. local name: Chikhanja. collector id: 028. other id: NSL 184444. locality: Bukananaji village, Bungoma, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521409 donor id: 029. origin: Kenya. collector id: 029. other id: NSL 184445. locality: Mayanja village, Bungoma, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521410 donor id: 030. origin: Kenya. collector id: 030. other id: NSL 184446. locality: Mayanja village, Bungoma, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521411 donor id: 031. origin: Kenya. local name: Bukhese. collector id: 031. other id: NSL 184447. locality: Namutokholo village, Bungoma, Western Province. remarks: Sown mid-February, harvested June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521412 donor id: 032. origin: Kenya. local name: Nabikara. collector id: 032. other id: NSL 184448. locality: Bitonge village, Bungoma, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521413 donor id: 033. origin: Kenya. local name: Bukhese. collector id: 033. other id: NSL 184449. locality: Bitonge village, Bungoma, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521414 donor id: 034. origin: Kenya. local name: Bunafusi. collector id: 034. other id: NSL 184450. locality: Butunde village, Bungoma, Western Province. remarks: Sown mid-February, harvested July. Cultivated. Seed.
- PI 521415 donor id: 035. origin: Kenya. local name: Namaemba. collector id: 035. other id: NSL 184451. locality: Butunde village, Bungoma, Western Province. remarks: Sown mid-February, harvested July. Cultivated. Seed.
- PI 521416 donor id: 036. origin: Kenya. local name: Mutumba. collector id: 036. other id: NSL 184452. locality: Namali village, Bungoma, Western Province. remarks: Sown March, harvested June. Cultivated. Seed.
- PI 521417 donor id: 037. origin: Kenya. local name: Namala. collector id: 037. other id: NSL 184453. locality: Samiji village, Bungoma, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521418 donor id: 038. origin: Kenya. local name: Khulule. collector id: 038. other id: NSL 184454. locality: Samiji village, Bungoma, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521419 donor id: 039. origin: Kenya. local name: Bukhese. collector id: 039. other id: NSL 184455. locality: Samiji village, Bungoma, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521420 donor id: 040. origin: Kenya. collector id: 040. other id: NSL 184456. locality: Samiji village, Bungoma, Western Province. Wild. Seed.
- PI 521421 donor id: 041. origin: Kenya. local name: Namala. collector id: 041. other id: NSL 184457. locality: Bulimbo village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.



PI 521364 to 521610-continued

- PI 521422 donor id: 042. origin: Kenya. local name: Namala. collector id: 042. other id: NSL 184458. locality: Busembe village, Kakamega, Western Province. remarks: Sown February, harvested June. Cultivated. Seed.
- PI 521423 donor id: 043. origin: Kenya. local name: Ekhulule. collector id: 043. other id: NSL 184459. locality: Busembe village, Kakamega, Western Province. remarks: Sown early February, harvested June. Cultivated. Seed.
- PI 521424 donor id: 044. origin: Kenya. local name: Namala. collector id: 044. other id: NSL 184460. locality: Kholora village, Kakamega, Western Province. remarks: Sown early February, harvested June. Cultivated. Seed.
- PI 521425 donor id: 045. origin: Kenya. local name: Ekhulule. collector id: 045. other id: NSL 184461. locality: Kholora village, Kakamega, Western Province. remarks: Sown early February, harvested June. Cultivated. Seed.
- PI 521426 donor id: 046. origin: Kenya. local name: Ekhulule. collector id: 046. other id: NSL 184462. locality: Namulungu village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.
- PI 521427 donor id: 047. origin: Kenya. local name: Namafuja. collector id: 047. other id: NSL 184463. locality: Namulungu village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.
- PI 521428 donor id: 048. origin: Kenya. local name: Namala. collector id: 048. other id: NSL 184464. locality: Namulungu village, Kakamega, Western Province. remarks: Sown late February, harvested June. Cultivated. Seed.
- PI 521429 donor id: 049. origin: Kenya. local name: Ekhulule. collector id: 049. other id: NSL 184465. locality: Namutenda village, Kakamega, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.
- PI 521430 donor id: 050. origin: Kenya. local name: Arani. collector id: 050. other id: NSL 184466. locality: Namutenda village, Kakamega, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.
- PI 521431 donor id: 051. origin: Kenya. local name: Namala. collector id: 051. other id: NSL 184467. locality: Namutenda village, Kakamega, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521432 donor id: 052. origin: Kenya. local name: Namala. collector id: 052. other id: NSL 184468. locality: Mirere village, Kakamega, Western Province. remarks: Sown early March, harvested July. Cultivated. Seed.
- PI 521433 donor id: 053. origin: Kenya. local name: Ekhulule. collector id: 053. other id: NSL 184469. locality: Mirere village, Kakamega, Western Province. remarks: Sown early March, harvested July. Cultivated. Seed.
- PI 521434 donor id: 054. origin: Kenya. local name: Jamafura. collector id: 054. other id: NSL 184470. locality: Mirere village, Kakamega, Western Province. remarks: Sown early March, harvested July. Cultivated. Seed.
- PI 521435 donor id: 055. origin: Kenya. local name: Ekhulule. collector id: 055. other id: NSL 184471. locality: Mambo-loo village, Kakamega, Western Province. remarks: Sown early February, harvested July. Cultivated. Seed.
- PI 521436 donor id: 056. origin: Kenya. local name: Ekhulule. collector id: 056. other id: NSL 184472. locality: Nambelekea village, Kakamega, Western Province. remarks: Sown November, harvested May. Cultivated. Seed.
- PI 521437 donor id: D001B. origin: Kenya. local name: Ikhulule. collector id: D001B. other id: NSL 184473. locality: Bukaya village, Kakamega, Western Province. remarks: Sown mid-February, harvested late June. Cultivated. Seed.
- PI 521438 donor id: D002B. origin: Kenya. local name: Buchisu. collector id: D002B. other id: NSL 184474. locality: Bukaya village, Kakamega, Western Province. remarks: Sown mid-February, harvested late June. Cultivated. Seed.
- PI 521439 donor id: D003B. origin: Kenya. local name: Agriculture. collector id: D003B. other id: NSL 184475. locality: Bukaya village, Kakamega, Western Province. remarks: Sown mid-February, harvested late June. Cultivated. Seed.
- PI 521440 donor id: D004B. origin: Kenya. local name: Ikhulule. collector id: D004B. other id: NSL 184476. locality: Mabungo village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521441 donor id: 057. origin: Kenya. local name: Namala. collector id: 057. other id: NSL 184477. locality: Bulimba village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521442 donor id: 058. origin: Kenya. local name: Namafura. collector id: 058. other id: NSL 184478. locality: Bulimba village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521443 donor id: 059. origin: Kenya. local name: Namafura. collector id: 059. other id: NSL 184479. locality: Makadara village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521444 donor id: 060. origin: Kenya. local name: Ekhulule. collector id: 060. other id: NSL 184480. locality: Makadara village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521445 donor id: 061. origin: Kenya. local name: Namala. collector id: 061. other id: NSL 184481. locality: Musamba village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521446 donor id: 062. origin: Kenya. local name: Ekhulule. collector id: 062. other id: NSL 184482. locality: Musamba village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521447 donor id: 063. origin: Kenya. local name: Namafura. collector id: 063. other id: NSL 184483. locality: Musamba village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521448 donor id: 064. origin: Kenya. local name: Nafusi. collector id: 064. other id: NSL 184484. locality: Shaweyala village, Kakamega, Western Province. remarks: Sown January, harvested June. Cultivated. Seed.
- PI 521449 donor id: 065. origin: Kenya. local name: Ikhulule. collector id: 065. other id: NSL 184485. locality: Shaweyala village, Kakamega, Western Province. remarks: Sown January, harvested June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521450 donor id: 066. origin: Kenya. local name: Ikhulule. collector id: 066. other id: NSL 184486. locality: Mukunga village, Kakamega, Western Province. remarks: Sown January, harvested June. Cultivated. Seed.
- PI 521451 donor id: D005B. origin: Kenya. collector id: D005B. other id: NSL 184487. locality: Ibinda village, Kakamega, Western Province. remarks: Originally from Uganda. Sown mid-February, harvested mid-June. Cultivated. Seed.
- PI 521452 donor id: D006B. origin: Kenya. local name: Ikhulule. collector id: D006B. other id: NSL 184488. locality: Namasoli village, Kakamega, Western Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521453 donor id: D007B. origin: Kenya. local name: Livanse. collector id: D007B. other id: NSL 184489. locality: Namasoli village, Kakamega, Western Province. Wild. Seed.
- PI 521454 donor id: D008B. origin: Kenya. local name: Indere. collector id: D008B. other id: NSL 184490. locality: Buk'anga village, Kakamega, Western Province. remarks: Sown late February, harvested mid-June. Cultivated. Seed.
- PI 521455 donor id: D009B. origin: Kenya. local name: Mushinyama. collector id: D009B. other id: NSL 184491. locality: Khwisero village, Kakamega, Western Province. remarks: Sown mid-February, harvested late June. Cultivated. Seed.
- PI 521456 donor id: D010B. origin: Kenya. local name: Ikhulule. collector id: D010B. other id: NSL 184492. locality: Sabatia village, Kakamega, Western Province. remarks: Sown mid-February, harvested late June. Cultivated. Seed.
- PI 521457 donor id: J1. origin: Kenya. local name: Buyeku. collector id: J1. other id: NSL 184493. locality: Shitirira village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521458 donor id: J2. origin: Kenya. local name: Meno-Kabakhana. collector id: J2. other id: NSL 184494. locality: Shitirira village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521459 donor id: J3. origin: Kenya. local name: Ikhulule. collector id: J3. other id: NSL 184495. locality: Shitirira village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521460 donor id: J4. origin: Kenya. local name: Agriculture. collector id: J4. other id: NSL 184496. locality: Shitirira village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521461 donor id: J5. origin: Kenya. local name: Indere. collector id: J5. other id: NSL 184497. locality: Malava village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521462 donor id: J6. origin: Kenya. local name: Imbale. collector id: J6. other id: NSL 184498. locality: Malava village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521463 donor id: J7. origin: Kenya. collector id: J7. other id: NSL 184499. locality: Malava village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521464 donor id: J8. origin: Kenya. local name: Meno-Kabakhana. collector id: J8. other id: NSL 184500. locality: Malava village, Kakamega, Western Province. remarks: Sown late January, harvested June. Cultivated. Seed.
- PI 521465 donor id: J9. origin: Kenya. local name: Ikhulule. collector id: J9. other id: NSL 184501. locality: Malava village, Kakamega, Western Province. remarks: Sown late January, harvested June. Cultivated. Seed.
- PI 521466 donor id: J10. origin: Kenya. local name: Livanse. collector id: J10. other id: NSL 184502. locality: Malava village, Kakamega, Western Province. Wild. Seed.
- PI 521467 donor id: J11. origin: Kenya. collector id: J11. other id: NSL 184503. locality: Malava village, Kakamega, Western Province. remarks: Sown January, harvested June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521468 donor id: J12. origin: Kenya. local name: Bwelisimbwa. collector id: J12. other id: NSL 184504. locality: Malanga village, Kakamega, Western Province. remarks: Sown April, harvested July. Cultivated. Seed.
- PI 521469 donor id: J13. origin: Kenya. collector id: J13. other id: NSL 184505. locality: Malanga village, Kakamega, Western Province. remarks: Sown April, harvested June. Cultivated. Seed.
- PI 521470 donor id: J14. origin: Kenya. local name: Ikhulule. collector id: J14. other id: NSL 184506. locality: Malanga village, Kakamega, Western Province. remarks: Sown early March, harvested July. Cultivated. Seed.
- PI 521471 donor id: J15. origin: Kenya. local name: Namala. collector id: J15. other id: NSL 184507. locality: Mabusi village, Kakamega, Western Province. remarks: Sown early February, harvested June. Cultivated. Seed.
- PI 521472 donor id: J16. origin: Kenya. collector id: J16. other id: NSL 184508. locality: Mabusi village, Kakamega, Western Province. remarks: Sown early February, harvested June. Cultivated. Seed.
- PI 521473 donor id: J17. origin: Kenya. local name: Namala. collector id: J17. other id: NSL 184509. locality: Isango village, Kakamega, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.
- PI 521474 donor id: J18. origin: Kenya. local name: Namafura. collector id: J18. other id: NSL 184510. locality: Isango village, Kakamega, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.
- PI 521475 donor id: J20. origin: Kenya. local name: Namala. collector id: J20. other id: NSL 184511. locality: Kulumbeai village, Kakamega, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.
- PI 521476 donor id: J21. origin: Kenya. local name: Namala. collector id: J21. other id: NSL 184512. locality: Kulumbeai village, Kakamega, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.
- PI 521477 donor id: J22. origin: Kenya. local name: Agriculture. collector id: J22. other id: NSL 184513. locality: Kulumbeni village, Kakamega, Western Province. remarks: Sown early March, harvested June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521478 donor id: J23. origin: Kenya. local name: Namabele.  
collector id: J23. other id: NSL 184514. locality:  
Makhukhuni village, Kakamega, Western Province. remarks:  
Sown late February, harvested June. Cultivated. Seed.
- PI 521479 donor id: J24. origin: Kenya. local name: Bukhese.  
collector id: J24. other id: NSL 184515. locality:  
Makhukhuni village, Kakamega, Western Province. remarks:  
Sown late February, harvested June. Cultivated. Seed.
- PI 521480 donor id: J25. origin: Kenya. local name: Namala.  
collector id: J25. other id: NSL 184516. locality:  
Makhukhuni village, Kakamega, Western Province. remarks:  
Sown late February, harvested June. Cultivated. Seed.
- PI 521481 donor id: J26. origin: Kenya. local name: Bukhuyu.  
collector id: J26. other id: NSL 184517. locality:  
Makhukhuni village, Kakamega, Western Province. remarks:  
Sown late February, harvested June. Cultivated. Seed.
- PI 521482 donor id: J27. origin: Kenya. local name: Namala.  
collector id: J27. other id: NSL 184518. locality:  
Jenjeni village, Kakamega, Western Province. remarks:  
Sown early February, harvested June. Cultivated. Seed.
- PI 521483 donor id: J28. origin: Kenya. local name: Namabele.  
collector id: J28. other id: NSL 184519. locality:  
Vihiga village, Kakamega, Western Province. remarks:  
Sown March, harvested July. Cultivated. Seed.
- PI 521484 donor id: J29. origin: Kenya. local name: Chimbeshe.  
collector id: J29. other id: NSL 184520. locality:  
Vihiga village, Kakamega, Western Province. remarks:  
Sown March, harvested June. Cultivated. Seed.
- PI 521485 donor id: J30. origin: Kenya. local name: Ikhululu.  
collector id: J30. other id: NSL 184521. locality:  
Namarambi village, Kakamega, Western Province. remarks:  
Sown March, harvested June. Cultivated. Seed.
- PI 521486 donor id: J31. origin: Kenya. collector id: J31. other  
id: NSL 184522. locality: Namarambi village, Kakamega,  
Western Province. remarks: Sown March, harvested June.  
Cultivated. Seed.
- PI 521487 donor id: J32. origin: Kenya. local name: Namabele.  
collector id: J32. other id: NSL 184523. locality:  
Vihiga village, Kakamega, Western Province. remarks:  
Sown March, harvested June. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521488 donor id: D001C. origin: Kenya. local name: Ikhulule. collector id: D001C. other id: NSL 184524. locality: Shitochi village, Kakamega, Western Province. remarks: Sown late February, harvested late July. Cultivated. Seed.
- PI 521489 donor id: D002C. origin: Kenya. local name: Buyeku. collector id: D002C. other id: NSL 184525. locality: Shitochi village, Kakamega, Western Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521490 donor id: D003C. origin: Kenya. local name: Ikhulule. collector id: D003C. other id: NSL 184526. locality: Shikulu village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521491 donor id: D006C. origin: Kenya. local name: Karakacha. collector id: D006C. other id: NSL 184529. locality: Birindwa village, Kakamega, Western Province. remarks: Sown early March, harvested early July. Cultivated. Seed.
- PI 521492 donor id: D007C. origin: Kenya. collector id: D007C. other id: NSL 184530. locality: Birindwa village, Kakamega, Western Province. Wild. Seed.
- PI 521493 donor id: D008C. origin: Kenya. local name: Shirikaliki. collector id: D008C. other id: NSL 184531. locality: Lirembe village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521494 donor id: D009C. origin: Kenya. local name: Ikhule. collector id: D009C. other id: NSL 184532. locality: Lirembe village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521495 donor id: D010C. origin: Kenya. local name: Meno-Kabakhana. collector id: D010C. other id: NSL 184533. locality: Lirembe village, Kakamega, Western Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521496 donor id: D011C. origin: Kenya. local name: Meno-Kabakhana. collector id: D011C. other id: NSL 184534. locality: Iguhu village, Kakamega, Western Province. remarks: Sown early March, harvested late June. Cultivated. Seed.



PI 521364 to 521610-continued

- PI 521497 donor id: D012C. origin: Kenya. local name: Ikhule.  
collector id: D012C. other id: NSL 184535. locality:  
Iguhu village, Kakamega, Western Province. remarks: Sown  
early March, harvested late June. Cultivated. Seed.
- PI 521498 donor id: D013C. origin: Kenya. local name: Ikhule.  
collector id: D013C. other id: NSL 184536. locality:  
Lusui village, Kakamega, Western Province. remarks: Sown  
early March, harvested late June. Cultivated. Seed.
- PI 521499 donor id: 001. origin: Kenya. local name: Ndere.  
collector id: 001. other id: NSL 184537. locality:  
Kokiri village, Kisumu, Nyanza Province. remarks: Sown  
early March, harvested early July. Cultivated. Seed.
- PI 521500 donor id: 002. origin: Kenya. local name: Ndere.  
collector id: 002. other id: NSL 184538. locality:  
Koyugi village, Kisumu, Nyanza Province. remarks: Sown  
mid-February, harvested late May. Cultivated. Seed.
- PI 521501 donor id: 003. origin: Kenya. local name: Ndere.  
collector id: 003. other id: NSL 184539. locality:  
Ranjira village, Kisumu, Nyanza Province. Cultivated.  
Seed.
- PI 521502 donor id: 004. origin: Kenya. local name: Ndere.  
collector id: 004. other id: NSL 184540. locality:  
Kajimbo village, Kisumu, Nyanza Province. remarks: Sown  
early March, harvested late May. Cultivated. Seed.
- PI 521503 donor id: 005. origin: Kenya. local name: Enakuru.  
collector id: 005. other id: NSL 184541. locality:  
Mwamisoko village, Kisii, Nyanza Province. remarks: Sown  
mid-February, harvested early July. Cultivated. Seed.
- PI 521504 donor id: 006. origin: Kenya. local name: Endere.  
collector id: 006. other id: NSL 184542. locality:  
Mwamisoko village, Kisii, Nyanza Province. remarks: Sown  
late February, harvested early July. Cultivated. Seed.
- PI 521505 donor id: 007. origin: Kenya. local name: Enakuru.  
collector id: 007. other id: NSL 184543. locality:  
Bomwancha village, Kisii, Nyanza Province. remarks: Sown  
late February, harvested late July. Cultivated. Seed.
- PI 521506 donor id: 008. origin: Kenya. local name: Enyabotende.  
collector id: 008. other id: NSL 184544. locality:  
Bomwancha village, Kisii, Nyanza Province. remarks:  
Originally from Tanzania. Sown late February, harvested  
late July. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521507 donor id: 009. origin: Kenya. local name: Egekundi.  
collector id: 009. other id: NSL 184545. locality:  
Bomwancha village, Kisii, Nyanza Province. remarks: Sown  
late February, harvested late July. Cultivated. Seed.
- PI 521508 donor id: 010. origin: Kenya. local name: Enyandabu.  
collector id: 010. other id: NSL 184546. locality:  
Bomwancha village, Kisii, Nyanza Province. remarks: Sown  
late February, harvested late July. Cultivated. Seed.
- PI 521509 donor id: 011. origin: Kenya. local name: Ribanchori.  
collector id: 011. other id: NSL 184547. locality:  
Bomwancha village, Kisii, Nyanza Province. Wild. Seed.
- PI 521510 donor id: 012. origin: Kenya. local name: Endere.  
collector id: 012. other id: NSL 184548. locality:  
Bomokora village, Kisii, Nyanza Province. remarks: Sown  
mid-February, harvested early July. Cultivated. Seed.
- PI 521511 donor id: 013. origin: Kenya. local name: Enakuru.  
collector id: 013. other id: NSL 184549. locality:  
Bomokora village, Kisii, Nyanza Province. remarks: Sown  
mid-February, harvested early July. Cultivated. Seed.
- PI 521512 donor id: 014. origin: Kenya. local name: Endere.  
collector id: 014. other id: NSL 184550. locality:  
Bomokora village, Kisii, Nyanza Province. remarks: Sown  
mid-February, harvested early July. Cultivated. Seed.
- PI 521513 donor id: 016. origin: Kenya. local name: Enakuru.  
collector id: 016. other id: NSL 184551. locality:  
Bukinami village, Kisii, Nyanza Province. remarks: Sown  
mid-February, harvested early July. Cultivated. Seed.
- PI 521514 donor id: 018. origin: Kenya. local name: Enakuru.  
collector id: 018. other id: NSL 184552. locality:  
Monianku village, Kisii, Nyanza Province. remarks: Sown  
early February, harvested early July. Cultivated. Seed.
- PI 521515 donor id: 019. origin: Kenya. local name: Marege.  
collector id: 019. other id: NSL 184553. locality:  
Monianku village, Kisii, Nyanza Province. remarks: Sown  
early February, harvested early July. Cultivated. Seed.
- PI 521516 donor id: 020. origin: Kenya. local name: Dongo.  
collector id: 020. other id: NSL 184554. locality:  
Ogenga village, S.Nyanza, Nyanza Province. remarks: Sown  
mid-April, harvested late July. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521517 donor id: 021. origin: Kenya. local name: Ndere.  
collector id: 021. other id: NSL 184555. locality:  
Ogenga village, S.Nyanza, Nyanza Province. remarks: Sown  
mid-April, harvested late July. Cultivated. Seed.
- PI 521518 donor id: 022. origin: Kenya. collector id: 022. other  
id: NSL 184556. locality: Nyarach village, S.Nyanza,  
Nyanza Province. Wild. Seed.
- PI 521519 donor id: 024. origin: Kenya. local name: Kagembe.  
collector id: 024. other id: NSL 184557. locality:  
Ndiwa village, S.Nyanza, Nyanza Province. remarks: Sown  
mid-March, harvested mid-July. Cultivated. Seed.
- PI 521520 donor id: 025. origin: Kenya. local name: Othuwa.  
collector id: 025. other id: NSL 184558. locality:  
Ndiwa village, S.Nyanza, Nyanza Province. remarks: Sown  
late February, harvested late May. Cultivated. Seed.
- PI 521521 donor id: 026. origin: Kenya. local name: Ndere.  
collector id: 026. other id: NSL 184559. locality:  
Ndiwa village, S.Nyanza, Nyanza Province. remarks: Sown  
early April, harvested early August. Cultivated. Seed.
- PI 521522 donor id: 027. origin: Kenya. local name: Dongo.  
collector id: 027. other id: NSL 184560. locality:  
Ndiwa village, S.Nyanza, Nyanza Province. remarks: Sown  
early April, harvested early August. Cultivated. Seed.
- PI 521523 donor id: 028. origin: Kenya. local name: Karuma.  
collector id: 028. other id: NSL 184561. locality:  
Ndiwa village, S.Nyanza, Nyanza Province. remarks: Sown  
mid-February, harvested early July. Cultivated. Seed.
- PI 521524 donor id: 029. origin: Kenya. collector id: 029. other  
id: NSL 184562. locality: Nyakawere village, S.Nyanza,  
Nyanza Province. remarks: Sown mid-March, harvested  
early July. Cultivated. Seed.
- PI 521525 donor id: 030. origin: Kenya. local name: Kagembe.  
collector id: 030. other id: NSL 184563. locality:  
Nyakondo village, S.Nyanza, Nyanza Province. remarks:  
Sown late February, harvested early July. Cultivated.  
Seed.
- PI 521526 donor id: 031. origin: Kenya. local name: Ndere.  
collector id: 031. other id: NSL 184564. locality:  
Obolo village, S.Nyanza, Nyanza Province. remarks: Sown  
late February, harvested early July. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521527 donor id: 032. origin: Kenya. local name: Kagembe.  
collector id: 032. other id: NSL 184565. locality:  
Othoch village, S.Nyanza, Nyanza Province. remarks: Sown  
late February, harvested early July. Cultivated. Seed.
- PI 521528 donor id: 033. origin: Kenya. local name: Kigombe.  
collector id: 033. other id: NSL 184566. locality:  
Winjo village, S.Nyanza, Nyanza Province. remarks: Sown  
late February, harvested early July. Cultivated. Seed.
- PI 521529 donor id: 034. origin: Kenya. local name: Nyasuna.  
collector id: 034. other id: NSL 184567. locality:  
Nyandago village, S.Nyanza, Nyanza Province. remarks:  
Sown early February, harvested early July. Cultivated.  
Seed.
- PI 521530 donor id: 035. origin: Kenya. local name: Ndere.  
collector id: 035. other id: NSL 184568. locality:  
Kanga village, S.Nyanza, Nyanza Province. remarks: Sown  
early March, harvested early July. Cultivated. Seed.
- PI 521531 donor id: 036. origin: Kenya. local name: Kumba.  
collector id: 036. other id: NSL 184569. locality:  
Got-Marabiko village, S.Nyanza, Nyanza Province.  
remarks: Sown mid-January, harvested early July.  
Cultivated. Seed.
- PI 521532 donor id: 037. origin: Kenya. local name: Dongo.  
collector id: 037. other id: NSL 184570. locality:  
Giribe village, S.Nyanza, Nyanza Province. remarks: Sown  
mid-January, harvested early July. Cultivated. Seed.
- PI 521533 donor id: 038. origin: Kenya. local name: Ndere.  
collector id: 038. other id: NSL 184571. locality:  
Giribe village, S.Nyanza, Nyanza Province. remarks: Sown  
early January, harvested late June. Cultivated. Seed.
- PI 521534 donor id: 039. origin: Kenya. local name: Ndere.  
collector id: 039. other id: NSL 184572. locality:  
Mukuro village, S.Nyanza, Nyanza Province. remarks: Sown  
early March, harvested late July. Cultivated. Seed.
- PI 521535 donor id: 040. origin: Kenya. local name: Nyaitimo.  
collector id: 040. other id: NSL 184573. locality:  
Chinato village, S.Nyanza, Nyanza Province. remarks:  
Sown early February, harvested early July. Cultivated.  
Seed.

PI 521364 to 521610-continued

- PI 521536 donor id: 041. origin: Kenya. local name: Karuma.  
collector id: 041. other id: NSL 184574. locality:  
Chinato village, S.Nyanza, Nyanza Province. remarks:  
Sown early February, harvested early July. Cultivated.  
Seed.
- PI 521537 donor id: 042. origin: Kenya. local name: Maratati.  
collector id: 042. other id: NSL 184575. locality:  
Nyaroha village, S.Nyanza, Nyanza Province. remarks:  
Originally from Sri Lanka. Sown early February, harvested  
early July. Cultivated. Seed.
- PI 521538 donor id: 043. origin: Kenya. local name: Nyaibaikoma.  
collector id: 043. other id: NSL 184576. locality:  
Chinato village, S.Nyanza, Nyanza Province. remarks:  
Originally from Tanzania. Sown early February, harvested  
early July. Cultivated. Seed.
- PI 521539 donor id: 044. origin: Kenya. local name: Orokomo.  
collector id: 044. other id: NSL 184577. locality:  
Komotobo village, S.Nyanza, Nyanza Province. remarks:  
Sown early February, harvested early July. Cultivated.  
Seed.
- PI 521540 donor id: 045. origin: Kenya. local name: Akeru.  
collector id: 045. other id: NSL 184578. locality:  
Komotobo village, S.Nyanza, Nyanza Province. remarks:  
Sown early February, harvested early July. Cultivated.  
Seed.
- PI 521541 donor id: 046. origin: Kenya. local name: Ekechotoye.  
collector id: 046. other id: NSL 184579. locality:  
Nyaroba village, S.Nyanza, Nyanza Province. remarks:  
Sown early February, harvested early July. Cultivated.  
Seed.
- PI 521542 donor id: 047. origin: Kenya. local name: Gati-Ogete.  
collector id: 047. other id: NSL 184580. locality:  
Kiaboroti village, S.Nyanza, Nyanza Province. remarks:  
Sown early February, harvested early July. Cultivated.  
Seed.
- PI 521543 donor id: 048. origin: Kenya. local name: Karuma.  
collector id: 048. other id: NSL 184581. locality:  
Nyabikongori village, S.Nyanza, Nyanza Province.  
remarks: Sown late January, harvested early July.  
Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521544 donor id: 049. origin: Kenya. local name: Gati-Ogete. collector id: 049. other id: NSL 184582. locality: Nyabikongori village, S.Nyanza, Nyanza Province. remarks: Sown early February, harvested early July. Cultivated. Seed.
- PI 521545 donor id: 050. origin: Kenya. local name: Nyagaruma. collector id: 050. other id: NSL 184583. locality: Nyanduwat village, S.Nyanza, Nyanza Province. remarks: Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521546 donor id: 051. origin: Kenya. local name: Nyaksanda. collector id: 051. other id: NSL 184584. locality: Nyanduwat village, S.Nyanza, Nyanza Province. remarks: Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521547 donor id: 052. origin: Kenya. local name: Apusi. collector id: 052. other id: NSL 184585. locality: Nyanduwat village, S.Nyanza, Nyanza Province. remarks: Sown mid-March, harvested early July. Cultivated. Seed.
- PI 521548 donor id: 053. origin: Kenya. local name: Dongo. collector id: 053. other id: NSL 184586. locality: Kowinda village, S.Nyanza, Nyanza Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 521549 donor id: 054. origin: Kenya. local name: Ndere. collector id: 054. other id: NSL 184587. locality: Kowinda village, S.Nyanza, Nyanza Province. remarks: Sown early February, harvested mid-July. Cultivated. Seed.
- PI 521550 donor id: 055. origin: Kenya. local name: Ndere. collector id: 055. other id: NSL 184588. locality: Kaditonge village, S.Nyanza, Nyanza Province. remarks: Sown early April, harvested mid-August. Cultivated. Seed.
- PI 521551 donor id: 056. origin: Kenya. local name: Ndere. collector id: 056. other id: NSL 184589. locality: Kaditonge village, S.Nyanza, Nyanza Province. remarks: Sown early March, harvested late July. Cultivated. Seed.
- PI 521552 donor id: 057. origin: Kenya. local name: Madongo. collector id: 057. other id: NSL 184590. locality: Kowour village, Kisumu, Nyanza Province. remarks: Sown mid-February, harvested early May. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521553 donor id: 058. origin: Kenya. local name: Ndere.  
collector id: 058. other id: NSL 184591. locality:  
Ombaka village, Kisumu, Nyanza Province. remarks: Sown  
early February, harvested early May. Cultivated. Seed.
- PI 521554 donor id: 059. origin: Kenya. local name: Kumba.  
collector id: 059. other id: NSL 184592. locality:  
Ombaka village, Kisumu, Nyanza Province. remarks: Sown  
early February, harvested early May. Cultivated. Seed.
- PI 521555 donor id: 060. origin: Kenya. local name: Madongo.  
collector id: 060. other id: NSL 184593. locality:  
Ombaka village, Kisumu, Nyanza Province. remarks: Sown  
early February, harvested early May. Cultivated. Seed.
- PI 521556 donor id: 061. origin: Kenya. local name: Ndere.  
collector id: 061. other id: NSL 184594. locality:  
Karombe village, Kisumu, Nyanza Province. remarks: Sown  
late February, harvested early June. Cultivated. Seed.
- PI 521557 donor id: 062. origin: Kenya. local name: Ndere.  
collector id: 062. other id: NSL 184595. locality:  
Ung'oma village, Siaya, Nyanza Province. remarks: Sown  
mid-April, harvested mid-July. Cultivated. Seed.
- PI 521558 donor id: 063. origin: Kenya. local name: Hulure.  
collector id: 063. other id: NSL 184596. locality:  
Ung'oma village, Siaya, Nyanza Province. remarks: Sown  
mid-April, harvested mid-August. Cultivated. Seed.
- PI 521559 donor id: 064. origin: Kenya. local name: Achak.  
collector id: 064. other id: NSL 184597. locality:  
Nyangera village, Siaya, Nyanza Province. remarks: Sown  
early February, harvested early May. Cultivated. Seed.
- PI 521560 donor id: 065. origin: Kenya. local name: Nyakanam.  
collector id: 065. other id: NSL 184598. locality:  
Nyangera village, Siaya, Nyanza Province. remarks: Sown  
early February, harvested early May. Cultivated. Seed.
- PI 521561 donor id: 066. origin: Kenya. local name: Apusi.  
collector id: 066. other id: NSL 184599. locality:  
Ung'oma village, Siaya, Nyanza Province. remarks: Sown  
early February, harvested late July. Cultivated. Seed.
- PI 521562 donor id: 067. origin: Kenya. local name: Obuniti.  
collector id: 067. other id: NSL 184600. locality:  
Otimongo village, Busia, Nyanza Province. remarks: Sown  
mid-February, harvested mid-July. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521563 donor id: 068. origin: Kenya. local name: Egetu. collector id: 068. other id: NSL 184601. locality: Otimongo village, Busia, Nyanza Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521564 donor id: 069. origin: Kenya. local name: Najala. collector id: 069. other id: NSL 184602. locality: Bugeng' village, Busia, Nyanza Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 521565 donor id: 070. origin: Kenya. local name: Odjune. collector id: 070. other id: NSL 184603. locality: Bugeng' village, Busia, Nyanza Province. remarks: Sown early February, harvested late June. Cultivated. Seed.
- PI 521566 donor id: 071. origin: Kenya. local name: Butola. collector id: 071. other id: NSL 184604. locality: Sirisia village, Bungoma, Nyanza Province. remarks: Sown early March, harvested mid-July. Cultivated. Seed.
- PI 521567 donor id: 072. origin: Kenya. local name: Bukhesi. collector id: 072. other id: NSL 184605. locality: Machakha village, Bungoma, Nyanza Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521568 donor id: 073. origin: Kenya. local name: Libaya. collector id: 073. other id: NSL 184606. locality: Machakha village, Bungoma, Nyanza Province. Wild. Seed.
- PI 521569 donor id: 074. origin: Kenya. collector id: 074. other id: NSL 184607. locality: Kibindoyi village, Bungoma, Nyanza Province. remarks: Originally from Uganda. Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521570 donor id: 075. origin: Kenya. local name: Buwanga. collector id: 075. other id: NSL 184608. locality: Kurshandet village, Bungoma, Nyanza Province. remarks: Sown mid-February, harvested mid-July. Cultivated. Seed.
- PI 521571 donor id: 076. origin: Kenya. local name: Bukhesi. collector id: 076. other id: NSL 184609. locality: Lurare village, Bungoma, Nyanza Province. remarks: Sown late February, harvested late June. Cultivated. Seed.
- PI 521572 donor id: 088. origin: Kenya. local name: Mwei-Umwe. collector id: 088. other id: NSL 184610. locality: Kivau village, Machakos, Eastern Province. remarks: Sown early March, harvested mid-June. Cultivated. Seed.



PI 521364 to 521610-continued

- PI 521573 donor id: 091. origin: Kenya. local name: Mwei-Umwe.  
collector id: 091. other id: NSL 184612. locality:  
Kyanguli village, Machakos, Eastern Province. remarks:  
Sown early November, harvested early February.  
Cultivated. Seed.
- PI 521574 donor id: 095. origin: Kenya. local name: Wimbi.  
collector id: 095. other id: NSL 184613. locality:  
Ianzoli village, Machakos, Eastern Province. remarks:  
Sown November, harvested March. Cultivated. Seed.
- PI 521575 donor id: 096. origin: Kenya. local name: Wimbi.  
collector id: 096. other id: NSL 184614. locality:  
Kikingo village, Machakos, Eastern Province. remarks:  
Sown mid-November, harvested late March. Cultivated.  
Seed.
- PI 521576 donor id: 097. origin: Kenya. local name: Kiviu.  
collector id: 097. other id: NSL 184615. locality:  
Mutulani village, Machakos, Eastern Province. remarks:  
Sown early April, harvested early July. Cultivated.  
Seed.
- PI 521577 donor id: 098. origin: Kenya. local name: Mwei-Umwe.  
collector id: 098. other id: NSL 184616. locality:  
Kasunguni village, Machakos, Eastern Province. remarks:  
Sown mid-March, harvested late June. Cultivated. Seed.
- PI 521578 donor id: 099. origin: Kenya. local name: Kilungu.  
collector id: 099. other id: NSL 184617. locality:  
Kwa-Unguma village, Machakos, Eastern Province. remarks:  
Sown early April, harvested late July. Cultivated.  
Seed.
- PI 521579 donor id: 100. origin: Kenya. local name: Mwei-Umwe.  
collector id: 100. other id: NSL 184618. locality:  
Kwa-Nguma village, Machakos, Eastern Province. remarks:  
Sown early April, harvested late July. Cultivated.  
Seed.
- PI 521580 donor id: 101. origin: Kenya. local name: Mwei-Umwe.  
collector id: 101. other id: NSL 184619. locality:  
Matentani village, Machakos, Eastern Province. remarks:  
Sown November, harvested March. Cultivated. Seed.
- PI 521581 donor id: 103. origin: Kenya. local name: Mwei-Umwe.  
collector id: 103. other id: NSL 184620. locality:  
Mbiuni village, Machakos, Eastern Province. remarks:  
Sown late September, harvested March. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521582 donor id: 105. origin: Kenya. local name: Mwei-Umwe. collector id: 105. other id: NSL 184621. locality: Makutano village, Machakos, Eastern Province. remarks: Sown November, harvested late February. Cultivated. Seed.
- PI 521583 donor id: 107. origin: Kenya. local name: Mukudi. collector id: 107. other id: NSL 184622. locality: Gitibore village, Embu, Eastern Province. remarks: Sown mid-September, harvested July. Cultivated. Seed.
- PI 521584 donor id: 109. origin: Kenya. collector id: 109. other id: NSL 184623. locality: Siakago village, Embu, Eastern Province. remarks: Sown early September, harvested February. Cultivated. Seed.
- PI 521585 donor id: 114. origin: Kenya. local name: Ugimbi. collector id: 114. other id: NSL 184624. locality: Gitong'o village, Embu, Eastern Province. remarks: Sown October, harvested January. Cultivated. Seed.
- PI 521586 donor id: 115. origin: Kenya. local name: Ugimbi. collector id: 115. other id: NSL 184625. locality: Kianyagah village, Embu, Eastern Province. remarks: Sown October, harvested early July. Cultivated. Seed.
- PI 521587 donor id: 123. origin: Kenya. local name: Ogembe. collector id: 123. other id: NSL 184626. locality: Kioru village, Meru, Eastern Province. remarks: Sown October, harvested February. Cultivated. Seed.
- PI 521588 donor id: 125. origin: Kenya. collector id: 125. other id: NSL 184627. locality: Ngushia village, Meru, Eastern Province. remarks: Sown October, harvested February. Cultivated. Seed.
- PI 521589 donor id: 126. origin: Kenya. local name: Ogimbe. collector id: 126. other id: NSL 184628. locality: Ruiga village, Meru, Eastern Province. remarks: Sown October, harvested February. Cultivated. Seed.
- PI 521590 donor id: 129. origin: Kenya. local name: Ogumo. collector id: 129. other id: NSL 184629. locality: Kithoka village, Meru, Eastern Province. remarks: Sown October, harvested early March. Cultivated. Seed.
- PI 521591 donor id: 130. origin: Kenya. local name: Ogembe. collector id: 130. other id: NSL 184630. locality: Geto village, Meru, Eastern Province. remarks: Sown October, harvested February. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521592 donor id: 133. origin: Kenya. collector id: 133. other id: NSL 184631. locality: Mituntu village, Meru, Eastern Province. remarks: Sown October, harvested February. Cultivated. Seed.
- PI 521593 donor id: 134. origin: Kenya. collector id: 134. other id: NSL 184632. locality: Mituntu village, Meru, Eastern Province. remarks: Originally from Katheri, Mt. Kenya. Sown October, harvested February. Cultivated. Seed.
- PI 521594 donor id: 136. origin: Kenya. local name: Muibi. collector id: 136. other id: NSL 184633. locality: Andubaita village, Meru, Eastern Province. remarks: Sown October, harvested February. Cultivated. Seed.
- PI 521595 donor id: 137. origin: Kenya. collector id: 137. other id: NSL 184634. locality: Mugogoni village, Meru, Eastern Province. remarks: Sown October, harvested February. Cultivated. Seed.
- PI 521596 donor id: 140. origin: Kenya. local name: Ogembe. collector id: 140. other id: NSL 184635. locality: Akaiga village, Meru, Eastern Province. remarks: Sown October, harvested February. Cultivated. Seed.
- PI 521597 donor id: 141. origin: Kenya. local name: Ogembe. collector id: 141. other id: NSL 184636. locality: Ikathi village, Meru, Eastern Province. remarks: Sown October, harvested March. Cultivated. Seed.
- PI 521598 donor id: 142. origin: Kenya. collector id: 142. other id: NSL 184637. locality: Antuamakia village, Meru, Eastern Province. remarks: Sown September, harvested December. Cultivated. Seed.
- PI 521599 donor id: 145. origin: Kenya. local name: Ogembo. collector id: 145. other id: NSL 184638. locality: Kiborione village, Meru, Eastern Province. remarks: Sown October, harvested April. Cultivated. Seed.
- PI 521600 donor id: 146. origin: Kenya. local name: Wimbi. collector id: 146. other id: NSL 184639. locality: Mokowe village, Lamu, Coast Province. remarks: Originally from Mkokooni, Lamu. Sown early April, harvested August. Cultivated. Seed.
- PI 521601 donor id: 148. origin: Kenya. local name: Wimbi. collector id: 148. other id: NSL 184640. locality: Hindi village, Lamu, Coast Province. remarks: Sown early May, harvested late August. Cultivated. Seed.

PI 521364 to 521610-continued

- PI 521602 donor id: 152. origin: Kenya. local name: Wimbi.  
collector id: 152. other id: NSL 184643. locality:  
Magogoni village, Lamu, Coast Province. remarks: Sown  
late March, harvested mid-August. Cultivated. Seed.
- PI 521603 donor id: 153. origin: Kenya. collector id: 153. other  
id: NSL 184644. locality: Mokowe village, Lamu, Coast  
Province. Wild. Seed.
- PI 521604 donor id: 155. origin: Kenya. local name: Wimbi.  
collector id: 155. other id: NSL 184645. locality:  
Shauri-Moyo village, Malindi, Coast Province. remarks:  
Sown late April, harvested mid-August. Wild. Seed.
- PI 521605 donor id: 158. origin: Kenya. local name: Wimbi.  
collector id: 158. other id: NSL 184646. locality:  
Sosoni village, Malindi, Coast Province. remarks: Sown  
late March, harvested late August. Wild. Seed.
- PI 521606 donor id: 160. origin: Kenya. local name: Obure.  
collector id: 160. other id: NSL 184647. locality:  
Mamba village, Kwale, Coast Province. remarks: Sown  
mid-March, harvested mid-August. Wild. Seed.
- PI 521607 donor id: 161. origin: Kenya. local name: Obure.  
collector id: 161. other id: NSL 184648. locality:  
Mamba village, Kwale, Coast Province. remarks: Sown  
mid-March, harvested mid-August. Wild. Seed.
- PI 521608 donor id: 162. origin: Kenya. local name: Mbeke.  
collector id: 162. other id: NSL 184649. locality:  
Tavota village, Taita, Coast Province. remarks:  
Originally from Tanzania. Sown November, harvested March.  
Wild. Seed.
- PI 521609 donor id: 163. origin: Kenya. local name: Wimbi.  
collector id: 163. other id: NSL 184650. locality:  
Rukanga village, Taita, Coast Province. remarks: Sown  
mid-March, harvested late June. Wild. Seed.
- PI 521610 donor id: 166. origin: Kenya. collector id: 166. other  
id: NSL 184651. locality: Taveta village, Taita, Coast  
Province. remarks: Sown March, harvested August. Wild.  
Seed.

PI 521611 to 521655. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl  
millet

Donated by: Denton, I.R., IBPGR, Rome, Italy; and Toll, J.A., IBPGR,  
Rome, Italy. remarks: Received through IBPGR, Rome, Italy.  
Received 1978.

PI 521611 to 521655-continued

- PI 521611 donor id: 077. origin: Kenya. collector id: 077. other id: NSL 184319. locality: Kandae village, Kitui, Eastern Province. remarks: Sown late September, harvested mid-February. received as: P. americanum. Cultivated. Seed.
- PI 521612 donor id: 078. origin: Kenya. local name: Ngululu. collector id: 078. other id: NSL 184320. locality: Kinakoni village, Kitui, Eastern Province. received as: P. americanum. Wild. Seed.
- PI 521613 donor id: 079. origin: Kenya. local name: Katungulu. collector id: 079. other id: NSL 184321. locality: Kinakoni village, Kitui, Eastern Province. remarks: Sown late September, harvested late January. received as: P. americanum. Cultivated. Seed.
- PI 521614 donor id: 080. origin: Kenya. local name: Kivunga. collector id: 080. other id: NSL 184322. locality: Kinakoni village, Kitui, Eastern Province. remarks: Sown late September, harvested late January. received as: P. americanum. Cultivated. Seed.
- PI 521615 donor id: 081. origin: Kenya. local name: Kithungo. collector id: 081. other id: NSL 184323. locality: Musokini village, Kitui, Eastern Province. remarks: Sown early November, harvested late March. received as: P. americanum. Cultivated. Seed.
- PI 521616 donor id: 082. origin: Kenya. local name: Kithungo. collector id: 082. other id: NSL 184324. locality: Katingani village, Kitui, Eastern Province. remarks: Sown early September, harvested late February. received as: P. americanum. Cultivated. Seed.
- PI 521617 donor id: 083. origin: Kenya. local name: Mumea. collector id: 083. other id: NSL 184325. locality: Katingani village, Kitui, Eastern Province. remarks: Sown early September, harvested late February. received as: P. americanum. Cultivated. Seed.
- PI 521618 donor id: 084. origin: Kenya. local name: Kithungo. collector id: 084. other id: NSL 184326. locality: Kalisasi village, Kitui, Eastern Province. remarks: Sown early November, harvested late March. received as: P. americanum. Cultivated. Seed.
- PI 521619 donor id: 085. origin: Kenya. local name: Kithungo. collector id: 085. other id: NSL 184327. locality: Kalisasi village, Kitui, Eastern Province. remarks: Sown early November, harvested late March. received as: P. americanum. Cultivated. Seed.

PI 521611 to 521655-continued

- PI 521620 donor id: 086. origin: Kenya. local name: Kithungo. collector id: 086. other id: NSL 184328. locality: Musukini village, Kitui, Eastern Province. remarks: Sown early November, harvested late March. received as: P. americanum. Cultivated. Seed.
- PI 521621 donor id: 087. origin: Kenya. local name: Embu. collector id: 087. other id: NSL 184329. locality: Kivau village, Machakos, Eastern Province. remarks: Sown early October, harvested early March. received as: P. americanum. Cultivated. Seed.
- PI 521622 donor id: 090. origin: Kenya. collector id: 090. other id: NSL 184330. locality: Kombe village, Machakos, Eastern Province. remarks: Sown late September, harvested early March. received as: P. americanum. Cultivated. Seed.
- PI 521623 donor id: 092. origin: Kenya. local name: Mwee. collector id: 092. other id: NSL 184331. locality: Kyanguli village, Machakos, Eastern Province. remarks: Sown mid-October, harvested early March. received as: P. americanum. Cultivated. Seed.
- PI 521624 donor id: 093. origin: Kenya. collector id: 093. other id: NSL 184332. locality: Kyanguli village, Machakos, Eastern Province. remarks: Sown mid-October, harvested early March. received as: P. americanum. Cultivated. Seed.
- PI 521625 donor id: 094. origin: Kenya. local name: Mwee. collector id: 094. other id: NSL 184333. locality: Ianzoli village, Machakos, Eastern Province. remarks: Sown November, harvested March. received as: P. americanum. Cultivated. Seed.
- PI 521626 donor id: 102. origin: Kenya. local name: Muthumba. collector id: 102. other id: NSL 184334. locality: Matentani village, Machakos, Eastern Province. remarks: Sown November, harvested March. received as: P. americanum. Cultivated. Seed.
- PI 521627 donor id: 104. origin: Kenya. local name: Mwee. collector id: 104. other id: NSL 184335. locality: Makutano village, Machakos, Eastern Province. remarks: Sown November, harvested late February. received as: P. americanum. Cultivated. Seed.

PI 521611 to 521655-continued

- PI 521628 donor id: 106. origin: Kenya. local name: Mwere.  
collector id: 106. other id: NSL 184336. locality:  
Makenguru village, Embu, Eastern Province. remarks: Sown  
mid-September, harvested July. received as: P.  
americanum. Cultivated. Seed.
- PI 521629 donor id: 108. origin: Kenya. local name: Mugombe.  
collector id: 108. other id: NSL 184337. locality:  
Gitibore village, Embu, Eastern Province. remarks: Sown  
early September, harvested February. received as: P.  
americanum. Cultivated. Seed.
- PI 521630 donor id: 110. origin: Kenya. local name: Mugombe.  
collector id: 110. other id: NSL 184338. locality:  
Siakago village, Embu, Eastern Province. remarks: Sown  
early September, harvested February. received as: P.  
americanum. Cultivated. Seed.
- PI 521631 donor id: 111. origin: Kenya. local name: Mugombe.  
collector id: 111. other id: NSL 184339. locality:  
Kayuambora village, Embu, Eastern Province. remarks:  
Sown late October, harvested late February. received as:  
P. americanum. Cultivated. Seed.
- PI 521632 donor id: 112. origin: Kenya. local name: Muthara.  
collector id: 112. other id: NSL 184340. locality:  
Ishiara village, Embu, Eastern Province. remarks: Sown  
early October, harvested mid-February. received as: P.  
americanum. Cultivated. Seed.
- PI 521633 donor id: 113. origin: Kenya. local name: Siakongi.  
collector id: 113. other id: NSL 184341. locality:  
Gitong'o village, Embu, Eastern Province. remarks: Sown  
mid-October, harvested late January. received as: P.  
americanum. Cultivated. Seed.
- PI 521634 donor id: 116. origin: Kenya. local name: Mwere.  
collector id: 116. other id: NSL 184342. locality:  
Kianyagah village, Embu, Eastern Province. remarks: Sown  
October, harvested early July. received as: P.  
americanum. Cultivated. Seed.
- PI 521635 donor id: 117. origin: Kenya. local name: Mwere.  
collector id: 117. other id: NSL 184343. locality:  
Nkumari village, Meru, Eastern Province. remarks: Sown  
October, harvested February. received as: P. americanum.  
Cultivated. Seed.

PI 521611 to 521655-continued

- PI 521636 donor id: 118. origin: Kenya. local name: Mwere.  
collector id: 118. other id: NSL 184344. locality:  
Kamathuri village, Meru, Eastern Province. remarks: Sown  
October, harvested December. received as: P. americanum.  
Cultivated. Seed.
- PI 521637 donor id: 119. origin: Kenya. local name: Kiraka.  
collector id: 119. other id: NSL 184345. locality:  
Tunyai village, Meru, Eastern Province. remarks: Sown  
September, harvested February. received as: P.  
americanum. Cultivated. Seed.
- PI 521638 donor id: 120. origin: Kenya. local name: Githaraka.  
collector id: 120. other id: NSL 184346. locality:  
Tunyai village, Meru, Eastern Province. remarks: Sown  
September, harvested February. received as: P.  
americanum. Cultivated. Seed.
- PI 521639 donor id: 121. origin: Kenya. local name: Mwere.  
collector id: 121. other id: NSL 184347. locality:  
Makandune village, Meru, Eastern Province. remarks: Sown  
October, harvested February. received as: P. americanum.  
Cultivated. Seed.
- PI 521640 donor id: 122. origin: Kenya. local name: Mwere.  
collector id: 122. other id: NSL 184348. locality:  
Kioru village, Meru, Eastern Province. remarks: Sown  
October, harvested February. received as: P. americanum.  
Cultivated. Seed.
- PI 521641 donor id: 124. origin: Kenya. local name: Mwere.  
collector id: 124. other id: NSL 184349. locality:  
Ngushia village, Meru, Eastern Province. remarks: Sown  
October, harvested February. received as: P. americanum.  
Cultivated. Seed.
- PI 521642 donor id: 127. origin: Kenya. local name: Mwere.  
collector id: 127. other id: NSL 184350. locality:  
Ruiga village, Meru, Eastern Province. remarks: Sown  
October, harvested February. received as: P. americanum.  
Cultivated. Seed.
- PI 521643 donor id: 128. origin: Kenya. local name: Mwere.  
collector id: 128. other id: NSL 184351. locality:  
Kithoka village, Meru, Eastern Province. remarks: Sown  
October, harvested early March. received as: P.  
americanum. Cultivated. Seed.



PI 521611 to 521655-continued

- PI 521644 donor id: 131. origin: Kenya. local name: Mwere.  
collector id: 131. other id: NSL 184352. locality: Geto  
village, Meru, Eastern Province. remarks: Sown October,  
harvested February. received as: P. americanum.  
Cultivated. Seed.
- PI 521645 donor id: 132. origin: Kenya. local name: Mwere.  
collector id: 132. other id: NSL 184353. locality:  
Mituntu village, Meru, Eastern Province. remarks: Sown  
October, harvested February. received as: P. americanum.  
Cultivated. Seed.
- PI 521646 donor id: 135. origin: Kenya. local name: Mwere.  
collector id: 135. other id: NSL 184354. locality:  
Andubaita village, Meru, Eastern Province. remarks: Sown  
October, harvested February. received as: P. americanum.  
Cultivated. Seed.
- PI 521647 donor id: 138. origin: Kenya. collector id: 138. other  
id: NSL 184355. locality: Githiari village, Meru,  
Eastern Province. remarks: Sown October, harvested  
February. received as: P. americanum. Cultivated.  
Seed.
- PI 521648 donor id: 139. origin: Kenya. local name: Mwere.  
collector id: 139. other id: NSL 184356. locality:  
Akaiga village, Meru, Eastern Province. remarks: Sown  
October, harvested February. received as: P. americanum.  
Cultivated. Seed.
- PI 521649 donor id: 143. origin: Kenya. local name: Mwere.  
collector id: 143. other id: NSL 184357. locality:  
Anduni village, Meru, Eastern Province. remarks: Sown  
October, harvested January. received as: P. americanum.  
Cultivated. Seed.
- PI 521650 donor id: 144. origin: Kenya. local name: Mwere.  
collector id: 144. other id: NSL 184358. locality:  
Karimakeru village, Meru, Eastern Province. remarks:  
Sown late September, harvested February. received as: P.  
americanum. Cultivated. Seed.
- PI 521651 donor id: 147. origin: Kenya. local name: Mawele.  
collector id: 147. other id: NSL 184359. locality:  
Kiongoni village, Lamu, Coast Province. remarks: Sown  
early April, harvested early August. received as: P.  
americanum. Cultivated. Seed.

PI 521611 to 521655-continued

PI 521652 donor id: 154. origin: Kenya. local name: Mere.  
collector id: 154. other id: NSL 184361. locality:  
Shauri-Moyo village, Malindi, Coast Province. remarks:  
Sown late April, harvested mid-August. received as: P.  
americanum. Cultivated. Seed.

PI 521653 donor id: 157. origin: Kenya. local name: Mere.  
collector id: 157. other id: NSL 184363. locality:  
Sosoni village, Malindi, Coast Province. remarks: Sown  
early May, harvested mid-August. received as: P.  
americanum. Cultivated. Seed.

PI 521654 donor id: 164. origin: Kenya. local name: Mwee.  
collector id: 164. other id: NSL 184365. locality: Jora  
village, Taita, Coast Province. remarks: Originally from  
Machakos. Sown late September, harvested December.  
received as: P. americanum. Cultivated. Seed.

PI 521655 donor id: 165. origin: Kenya. collector id: 165. other  
id: NSL 184366. locality: Mwakiki village, Taita, Coast  
Province. remarks: Originally from Voi. Sown  
mid-November, harvested mid-February. received as: P.  
americanum. Cultivated. Seed.

PI 521656. *Cajanus* sp. FABACEAE Pigeon pea

Donated by: Rao, S.A., ICRISAT, Genetic Resources Unit, Patancheru  
P.O., Andhra Pradesh, India; and Denton, I.R., IBPGR, Rome, Italy;  
and Sibale, P., Chitedze Agricultural Research Station, Ministry of  
Agriculture, Malawi. remarks: Received through IBPGR, Rome, Italy.  
Collectors S.A. Rao, I.R. Denton, P. Sibale, and J. Kumwenda.  
Received October 1979.

donor id: SAD 0834. origin: Malawi. collected: April  
10, 1979. collector id: SAD 0834. other id: NSL 182994.  
locality: Field, Malalawai. received as: *Atylosia* sp.  
Wild. Seed.

PI 521657. *Eleusine coracana* (L.) Gaertn. POACEAE Finger millet

Donated by: Rao, S.A., ICRISAT, Genetic Resources Unit, Patancheru  
P.O., Andhra Pradesh, India; and Denton, I.R., IBPGR, Rome, Italy;  
and Sibale, P., Chitedze Agricultural Research Station, Ministry of  
Agriculture, Malawi. remarks: Received through IBPGR, Rome, Italy.  
Collectors S.A. Rao, I.R. Denton, P. Sibale, and J. Kumwenda.  
Received October 1979.

donor id: SAD 0191A. origin: Malawi. collected: March  
20, 1979. collector id: SAD 0191A. other id: NSL  
182993. locality: Field, Tombondela. Cultivated. Seed.

PI 521658. *Paspalum* sp. POACEAE

**Donated by:** Rao, S.A., ICRISAT, Genetic Resources Unit, Patancheru P.O., Andhra Pradesh, India; and Denton, I.R., IBPGR, Rome, Italy; and Sibale, P., Chitedze Agricultural Research Station, Ministry of Agriculture, Malawi. **remarks:** Received through IBPGR, Rome, Italy. Collectors S.A. Rao, I.R. Denton, P. Sibale, and J. Kumwenda. Received October 1979.

donor id: SAD 0013. origin: Malawi. collected: March 17, 1979. collector id: SAD 0013. other id: NSL 182314. locality: Field, Ngabu. Wild. Seed.

PI 521659 to 521672. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

**Donated by:** Rao, S.A., ICRISAT, Genetic Resources Unit, Patancheru P.O., Andhra Pradesh, India; and Denton, I.R., IBPGR, Rome, Italy; and Sibale, P., Chitedze Agricultural Research Station, Ministry of Agriculture, Malawi. **remarks:** Received through IBPGR, Rome, Italy. Collectors S.A. Rao, I.R. Denton, P. Sibale, and J. Kumwenda. Received October 1979.

PI 521659 donor id: SAD 0081B. origin: Malawi. collected: March 19, 1979. collector id: SAD 0081B. other id: NSL 182315. locality: Farmstore, Ngabu. received as: *P. americanum*. Cultivated. Seed.

PI 521660 donor id: SAD 0286. origin: Malawi. collected: March 22, 1979. collector id: SAD 0286. other id: NSL 182316. locality: Field, Chambuluka. received as: *P. americanum*. Cultivated. Seed.

PI 521661 donor id: SAD 0290. origin: Malawi. collected: March 22, 1979. collector id: SAD 0290. other id: NSL 182317. locality: Field, Chambuluka. received as: *P. americanum*. Cultivated. Seed.

PI 521662 donor id: SAD 0292. origin: Malawi. collected: March 22, 1979. collector id: SAD 0292. other id: NSL 182318. locality: Field, Nyayaka. received as: *P. americanum*. Cultivated. Seed.

PI 521663 donor id: SAD 0293. origin: Malawi. collected: March 22, 1979. collector id: SAD 0293. other id: NSL 182319. locality: Field, Nyayaka. received as: *P. americanum*. Cultivated. Seed.

PI 521664 donor id: SAD 0294. origin: Malawi. collected: March 22, 1979. collector id: SAD 0294. other id: NSL 182320. locality: Field, Nyayaka. received as: *P. americanum*. Cultivated. Seed.

PI 521659 to 521672-continued

- PI 521665 donor id: SAD 0295. origin: Malawi. collected: March 22, 1979. collector id: SAD 0295. other id: NSL 182321. locality: Field, Nyayaka. received as: P. americanum. Cultivated. Seed.
- PI 521666 donor id: SAD 0296. origin: Malawi. collected: March 22, 1979. collector id: SAD 0296. other id: NSL 182322. locality: Field, Nyayaka. received as: P. americanum. Cultivated. Seed.
- PI 521667 donor id: SAD 0297. origin: Malawi. collected: March 22, 1979. collector id: SAD 0297. other id: NSL 182323. locality: Field, Nyayaka. received as: P. americanum. Cultivated. Seed.
- PI 521668 donor id: SAD 0298. origin: Malawi. collected: March 22, 1979. collector id: SAD 0298. other id: NSL 182324. locality: Field, Nyayaka. received as: P. americanum. Cultivated. Seed.
- PI 521669 donor id: SAD 0401. origin: Malawi. collected: March 24, 1979. collector id: SAD 0401. other id: NSL 182989. locality: Field, Mastada. received as: P. americanum. Cultivated. Seed.
- PI 521670 donor id: SAD 0429. origin: Malawi. local name: Dogs tail. collected: March 24, 1979. collector id: SAD 0429. other id: NSL 182990. locality: Field, Mindale. received as: P. americanum. Wild. Seed.
- PI 521671 donor id: SAD 0827. origin: Malawi. collected: April 10, 1979. collector id: SAD 0827. other id: NSL 182991. locality: Field, Chikapu. received as: P. americanum. Wild. Seed.
- PI 521672 donor id: SAD 1034. origin: Malawi. collected: April 17, 1979. collector id: SAD 1034. other id: NSL 182992. locality: Field, Ngabo. received as: P. americanum. Wild. Seed.

PI 521673 to 521856. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Rao, S.A., ICRISAT, Genetic Resources Unit, Patancheru P.O., Andhra Pradesh, India; and Denton, I.R., IBPGR, Rome, Italy; and Sibale, P., Chitedze Agricultural Research Station, Ministry of Agriculture, Malawi. remarks: Received through IBPGR, Rome, Italy. Collectors S.A. Rao, I.R. Denton, P. Sibale, and J. Kumwenda. Received October 1979.

PI 521673 to 521856-continued

- PI 521673 donor id: SAD 0003. origin: Malawi. collected: March 12, 1979. collector id: SAD 0003. other id: NSL 182364. locality: Market, Nairobi. Cultivated. Seed.
- PI 521674 donor id: SAD 0004. origin: Malawi. collected: March 14, 1979. collector id: SAD 0004. other id: NSL 182365. locality: Market, Limbe. Cultivated. Seed.
- PI 521675 donor id: SAD 0005. origin: Malawi. collected: March 14, 1979. collector id: SAD 0005. other id: NSL 182366. locality: Market, Chigmora. Cultivated. Seed.
- PI 521676 donor id: SAD 0016. origin: Malawi. collected: March 17, 1979. collector id: SAD 0016. other id: NSL 182367. locality: Field, Kulima. Wild. Seed.
- PI 521677 donor id: SAD 0017. origin: Malawi. collected: March 17, 1979. collector id: SAD 0017. other id: NSL 182368. locality: Farmstore, Kulima. Cultivated. Seed.
- PI 521678 donor id: SAD 0029. origin: Malawi. collected: March 18, 1979. collector id: SAD 0029. other id: NSL 182369. locality: Farmstore, Kangolongonde. Cultivated. Seed.
- PI 521679 donor id: SAD 0030. origin: Malawi. collected: March 18, 1979. collector id: SAD 0030. other id: NSL 182370. locality: Farmstore, Kangolongonde. Cultivated. Seed.
- PI 521680 donor id: SAD 0031. origin: Malawi. local name: Kavalazua. collected: March 18, 1979. collector id: SAD 0031. other id: NSL 182371. locality: Field, Karongo. Wild. Seed.
- PI 521681 donor id: SAD 0035. origin: Malawi. local name: Misale. collected: March 18, 1979. collector id: SAD 0035. other id: NSL 182372. locality: Farmstore, Karongo. Cultivated. Seed.
- PI 521682 donor id: SAD 0036. origin: Malawi. collected: March 18, 1979. collector id: SAD 0036. other id: NSL 182373. locality: Farmstore, Karongo. Wild. Seed.
- PI 521683 donor id: SAD 0046. origin: Malawi. local name: Kavalazua. collected: March 18, 1979. collector id: SAD 0046. other id: NSL 182374. locality: Farmstore, Chizenga. Cultivated. Seed.
- PI 521684 donor id: SAD 0048. origin: Malawi. local name: Kashonthe. collected: March 18, 1979. collector id: SAD 0048. other id: NSL 182375. locality: Farmstore, Mkumaniza. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521685 donor id: SAD 0051. origin: Malawi. collected: March 18, 1979. collector id: SAD 0051. other id: NSL 182376. locality: Farmstore, Mkumaniza. Wild. Seed.
- PI 521686 donor id: SAD 0053. origin: Malawi. collected: March 18, 1979. collector id: SAD 0053. other id: NSL 182377. locality: Farmstore, Gonio. Cultivated. Seed.
- PI 521687 donor id: SAD 0055. origin: Malawi. collected: March 18, 1979. collector id: SAD 0055. other id: NSL 182378. locality: Farmstore, Kiwilange. Cultivated. Seed.
- PI 521688 donor id: SAD 0056. origin: Malawi. local name: Misale. collected: March 18, 1979. collector id: SAD 0056. other id: NSL 182379. locality: Farmstore, Kiwilange. Cultivated. Seed.
- PI 521689 donor id: SAD 0064. origin: Malawi. local name: Kashonthe. collected: March 18, 1979. collector id: SAD 0064. other id: NSL 182380. locality: Farmstore, Malikepe. Cultivated. Seed.
- PI 521690 donor id: SAD 0067. origin: Malawi. local name: Kashonthe. collected: March 19, 1979. collector id: SAD 0067. other id: NSL 182381. locality: Farmstore, Changadia. Cultivated. Seed.
- PI 521691 donor id: SAD 0068. origin: Malawi. collected: March 19, 1979. collector id: SAD 0068. other id: NSL 182382. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521692 donor id: SAD 0069. origin: Malawi. local name: Kashonthe. collected: March 19, 1979. collector id: SAD 0069. other id: NSL 182383. locality: Field, Ngabu. Cultivated. Seed.
- PI 521693 donor id: SAD 0074. origin: Malawi. collected: March 19, 1979. collector id: SAD 0074. other id: NSL 182384. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521694 donor id: SAD 0075. origin: Malawi. local name: Kapeele. collected: March 19, 1979. collector id: SAD 0075. other id: NSL 182385. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521695 donor id: SAD 0078. origin: Malawi. collected: March 19, 1979. collector id: SAD 0078. other id: NSL 182386. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521696 donor id: SAD 0079A. origin: Malawi. collected: March 19, 1979. collector id: SAD 0079A. other id: NSL 182387. locality: Farmstore, Ngabu. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521697 donor id: SAD 0079B. origin: Malawi. collected: March 19, 1979. collector id: SAD 0079B. other id: NSL 182388. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521698 donor id: SAD 0082. origin: Malawi. collected: March 19, 1979. collector id: SAD 0082. other id: NSL 182389. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521699 donor id: SAD 0083. origin: Malawi. collected: March 19, 1979. collector id: SAD 0083. other id: NSL 182390. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521700 donor id: SAD 0084. origin: Malawi. collected: March 19, 1979. collector id: SAD 0084. other id: NSL 182391. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521701 donor id: SAD 0087. origin: Malawi. collected: March 19, 1979. collector id: SAD 0087. other id: NSL 182392. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521702 donor id: SAD 0088. origin: Malawi. local name: Kashonthe. collected: March 19, 1979. collector id: SAD 0088. other id: NSL 182393. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521703 donor id: SAD 0089. origin: Malawi. local name: Tengaramanga. collected: March 19, 1979. collector id: SAD 0089. other id: NSL 182394. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521704 donor id: SAD 0091. origin: Malawi. local name: Tengaramanga. collected: March 19, 1979. collector id: SAD 0091. other id: NSL 182395. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521705 donor id: SAD 0093. origin: Malawi. local name: Kashonthe. collected: March 19, 1979. collector id: SAD 0093. other id: NSL 182396. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521706 donor id: SAD 0094. origin: Malawi. local name: Ndikhwa. collected: March 19, 1979. collector id: SAD 0094. other id: NSL 182397. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521707 donor id: SAD 0096. origin: Malawi. collected: March 19, 1979. collector id: SAD 0096. other id: NSL 182398. locality: Farmstore, Nsangwe. Wild. Seed.
- PI 521708 donor id: SAD 0110. origin: Malawi. collected: March 19, 1979. collector id: SAD 0110. other id: NSL 182399. locality: Farmstore, Masache. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521709 donor id: SAD 0112. origin: Malawi. local name: Kashonthe. collected: March 19, 1979. collector id: SAD 0112. other id: NSL 182400. locality: Farmstore, Masache. Cultivated. Seed.
- PI 521710 donor id: SAD 0113. origin: Malawi. collected: March 19, 1979. collector id: SAD 0113. other id: NSL 182401. locality: Farmstore, Masache. Cultivated. Seed.
- PI 521711 donor id: SAD 0115. origin: Malawi. collected: March 19, 1979. collector id: SAD 0115. other id: NSL 182402. locality: Farmstore, Masache. Cultivated. Seed.
- PI 521712 donor id: SAD 0116. origin: Malawi. collected: March 19, 1979. collector id: SAD 0116. other id: NSL 182403. locality: Farmstore, Masache. Cultivated. Seed.
- PI 521713 donor id: SAD 0117. origin: Malawi. collected: March 19, 1979. collector id: SAD 0117. other id: NSL 182404. locality: Farmstore, Masache. Cultivated. Seed.
- PI 521714 donor id: SAD 0121. origin: Malawi. collected: March 19, 1979. collector id: SAD 0121. other id: NSL 182405. locality: Farmstore, Nsanje. Cultivated. Seed.
- PI 521715 donor id: SAD 0122. origin: Malawi. collected: March 19, 1979. collector id: SAD 0122. other id: NSL 182406. locality: Farmstore, Nsanje. Cultivated. Seed.
- PI 521716 donor id: SAD 0124. origin: Malawi. collected: March 19, 1979. collector id: SAD 0124. other id: NSL 182407. locality: Farmstore, Bangula. Cultivated. Seed.
- PI 521717 donor id: SAD 0125. origin: Malawi. collected: March 19, 1979. collector id: SAD 0125. other id: NSL 182408. locality: Farmstore, Bangula. Cultivated. Seed.
- PI 521718 donor id: SAD 0129. origin: Malawi. collected: March 19, 1979. collector id: SAD 0129. other id: NSL 182409. locality: Field, Bangula. Cultivated. Seed.
- PI 521719 donor id: SAD 0133. origin: Malawi. collected: March 19, 1979. collector id: SAD 0133. other id: NSL 182410. locality: Farmstore, Bangula. Cultivated. Seed.
- PI 521720 donor id: SAD 0134. origin: Malawi. collected: March 19, 1979. collector id: SAD 0134. other id: NSL 182411. locality: Farmstore, Bangula. Cultivated. Seed.
- PI 521721 donor id: SAD 0135. origin: Malawi. collected: March 19, 1979. collector id: SAD 0135. other id: NSL 182412. locality: Farmstore, Bangula. Cultivated. Seed.



PI 521673 to 521856-continued

- PI 521722 donor id: SAD 0136. origin: Malawi. collected: March 19, 1979. collector id: SAD 0136. other id: NSL 182413. locality: Farmstore, Bangula. Cultivated. Seed.
- PI 521723 donor id: SAD 0137. origin: Malawi. collected: March 19, 1979. collector id: SAD 0137. other id: NSL 182414. locality: Farmstore, Bangula. Cultivated. Seed.
- PI 521724 donor id: SAD 0138. origin: Malawi. collected: March 19, 1979. collector id: SAD 0138. other id: NSL 182415. locality: Farmstore, Dande. Cultivated. Seed.
- PI 521725 donor id: SAD 0153. origin: Malawi. collected: March 20, 1979. collector id: SAD 0153. other id: NSL 182416. locality: Farmstore, Chikwawa. Cultivated. Seed.
- PI 521726 donor id: SAD 0154. origin: Malawi. collected: March 20, 1979. collector id: SAD 0154. other id: NSL 182417. locality: Farmstore, Chikwawa. Cultivated. Seed.
- PI 521727 donor id: SAD 0155. origin: Malawi. collected: March 20, 1979. collector id: SAD 0155. other id: NSL 182418. locality: Farmstore, Chikwawa. Cultivated. Seed.
- PI 521728 donor id: SAD 0156B. origin: Malawi. collected: March 20, 1979. collector id: SAD 0156B. other id: NSL 182419. locality: Farmstore, Chikwawa. Cultivated. Seed.
- PI 521729 donor id: SAD 0157. origin: Malawi. collected: March 20, 1979. collector id: SAD 0157. other id: NSL 182420. locality: Farmstore, Chikwawa. Cultivated. Seed.
- PI 521730 donor id: SAD 0158. origin: Malawi. collected: March 20, 1979. collector id: SAD 0158. other id: NSL 182421. locality: Farmstore, Chikwawa. Cultivated. Seed.
- PI 521731 donor id: SAD 0163. origin: Malawi. collected: March 20, 1979. collector id: SAD 0163. other id: NSL 182422. locality: Farmstore, Kavila. Cultivated. Seed.
- PI 521732 donor id: SAD 0164. origin: Malawi. collected: March 20, 1979. collector id: SAD 0164. other id: NSL 182423. locality: Farmstore, Sekalvite. Cultivated. Seed.
- PI 521733 donor id: SAD 0165. origin: Malawi. collected: March 20, 1979. collector id: SAD 0165. other id: NSL 182424. locality: Farmstore, Sekalvite. Cultivated. Seed.
- PI 521734 donor id: SAD 0168. origin: Malawi. collected: March 20, 1979. collector id: SAD 0168. other id: NSL 182425. locality: Farmstore, Kakomaite. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521735 donor id: SAD 0169. origin: Malawi. collected: March 20, 1979. collector id: SAD 0169. other id: NSL 182426. locality: Farmstore, Kakoma. Cultivated. Seed.
- PI 521736 donor id: SAD 0170. origin: Malawi. collected: March 20, 1979. collector id: SAD 0170. other id: NSL 182427. locality: Farmstore, Kakoma. Cultivated. Seed.
- PI 521737 donor id: SAD 0171. origin: Malawi. collected: March 20, 1979. collector id: SAD 0171. other id: NSL 182428. locality: Farmstore, Kakoma. Cultivated. Seed.
- PI 521738 donor id: SAD 0174. origin: Malawi. collected: March 20, 1979. collector id: SAD 0174. other id: NSL 182493. locality: Farmstore, Kakoma. Cultivated. Seed.
- PI 521739 donor id: SAD 0175. origin: Malawi. collected: March 20, 1979. collector id: SAD 0175. other id: NSL 182757. locality: Farmstore, Kakoma. Cultivated. Seed.
- PI 521740 donor id: SAD 0180. origin: Malawi. collected: March 20, 1979. collector id: SAD 0180. other id: NSL 182429. locality: Farmstore, Kakoma. Cultivated. Seed.
- PI 521741 donor id: SAD 0181. origin: Malawi. collected: March 20, 1979. collector id: SAD 0181. other id: NSL 182430. locality: Farmstore, Kakoma. Cultivated. Seed.
- PI 521742 donor id: SAD 0182. origin: Malawi. collected: March 20, 1979. collector id: SAD 0182. other id: NSL 182431. locality: Farmstore, Kakoma. Cultivated. Seed.
- PI 521743 donor id: SAD 0183. origin: Malawi. collected: March 20, 1979. collector id: SAD 0183. other id: NSL 182432. locality: Farmstore, Kakoma. Cultivated. Seed.
- PI 521744 donor id: SAD 0184. origin: Malawi. collected: March 20, 1979. collector id: SAD 0184. other id: NSL 182433. locality: Farmstore, Kokoma. Cultivated. Seed.
- PI 521745 donor id: SAD 0189. origin: Malawi. collected: March 20, 1979. collector id: SAD 0189. other id: NSL 182434. locality: Farmstore, Tombondela. Cultivated. Seed.
- PI 521746 donor id: SAD 0190. origin: Malawi. collected: March 20, 1979. collector id: SAD 0190. other id: NSL 182435. locality: Farmstore, Tombondela. Cultivated. Seed.
- PI 521747 donor id: SAD 0193. origin: Malawi. collected: March 20, 1979. collector id: SAD 0193. other id: NSL 182436. locality: Farmstore, Tombondela. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521748 donor id: SAD 0194. origin: Malawi. collected: March 20, 1979. collector id: SAD 0194. other id: NSL 182437. locality: Farmstore, Tombondela. Cultivated. Seed.
- PI 521749 donor id: SAD 0195. origin: Malawi. collected: March 20, 1979. collector id: SAD 0195. other id: NSL 182438. locality: Farmstore, Tombondela. Cultivated. Seed.
- PI 521750 donor id: SAD 0196. origin: Malawi. collected: March 20, 1979. collector id: SAD 0196. other id: NSL 182439. locality: Farmstore, Tombondela. Cultivated. Seed.
- PI 521751 donor id: SAD 0202. origin: Malawi. collected: March 20, 1979. collector id: SAD 0202. other id: NSL 182440. locality: Farmstore, Chapananga. Cultivated. Seed.
- PI 521752 donor id: SAD 0204. origin: Malawi. collected: March 20, 1979. collector id: SAD 0204. other id: NSL 182441. locality: Farmstore, Chapananga. Cultivated. Seed.
- PI 521753 donor id: SAD 0211. origin: Malawi. local name: Kashonthe. collected: March 21, 1979. collector id: SAD 0211. other id: NSL 182442. locality: Farmstore, Chizola. Cultivated. Seed.
- PI 521754 donor id: SAD 0219. origin: Malawi. collected: March 21, 1979. collector id: SAD 0219. other id: NSL 182443. locality: Farmstore, Tengani. Cultivated. Seed.
- PI 521755 donor id: SAD 0225. origin: Malawi. collected: March 21, 1979. collector id: SAD 0225. other id: NSL 182444. locality: Farmstore, Tengani. Cultivated. Seed.
- PI 521756 donor id: SAD 0226A. origin: Malawi. collected: March 21, 1979. collector id: SAD 0226A. other id: NSL 182445. locality: Farmstore, Tengani. Cultivated. Seed.
- PI 521757 donor id: SAD 0226B. origin: Malawi. collected: March 21, 1979. collector id: SAD 0226B. other id: NSL 182446. locality: Farmstore, Tengani. Cultivated. Seed.
- PI 521758 donor id: SAD 0246. origin: Malawi. collected: March 21, 1979. collector id: SAD 0246. other id: NSL 182447. locality: Farmstore, Mpombi. Cultivated. Seed.
- PI 521759 donor id: SAD 0254. origin: Malawi. local name: Kashonthe. collected: March 21, 1979. collector id: SAD 0254. other id: NSL 182448. locality: Farmstore, Chimombo. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521760 donor id: SAD 0259. origin: Malawi. collected: March 21, 1979. collector id: SAD 0259. other id: NSL 182449. locality: Farmstore, Bigirinue. Cultivated. Seed.
- PI 521761 donor id: SAD 0260. origin: Malawi. collected: March 21, 1979. collector id: SAD 0260. other id: NSL 182450. locality: Farmstore, Bigirinue. Cultivated. Seed.
- PI 521762 donor id: SAD 0261. origin: Malawi. collected: March 21, 1979. collector id: SAD 0261. other id: NSL 182451. locality: Market, Marka. Cultivated. Seed.
- PI 521763 donor id: SAD 0262. origin: Malawi. collected: March 21, 1979. collector id: SAD 0262. other id: NSL 182452. locality: Market, Marka. Cultivated. Seed.
- PI 521764 donor id: SAD 0265. origin: Malawi. collected: March 21, 1979. collector id: SAD 0265. other id: NSL 182453. locality: Farmstore, Marka. Cultivated. Seed.
- PI 521765 donor id: SAD 0268. origin: Malawi. collected: March 21, 1979. collector id: SAD 0268. other id: NSL 182454. locality: Farmstore, Marka. Cultivated. Seed.
- PI 521766 donor id: SAD 0274. origin: Malawi. local name: Kashonthe. collected: March 22, 1979. collector id: SAD 0274. other id: NSL 182455. locality: Farmstore, Chiromo. Cultivated. Seed.
- PI 521767 donor id: SAD 0287. origin: Malawi. collected: March 22, 1979. collector id: SAD 0287. other id: NSL 182456. locality: Farmstore, Chambuluka. Cultivated. Seed.
- PI 521768 donor id: SAD 0291. origin: Malawi. local name: Tengaramanga. collected: March 22, 1979. collector id: SAD 0291. other id: NSL 182458. locality: Farmstore, Chambuluka. Cultivated. Seed.
- PI 521769 donor id: SAD 0308. origin: Malawi. local name: Tengaramanga. collected: March 22, 1979. collector id: SAD 0308. other id: NSL 182459. locality: Farmstore, Chitseko. Cultivated. Seed.
- PI 521770 donor id: SAD 0311. origin: Malawi. local name: Kashonthe. collected: March 22, 1979. collector id: SAD 0311. other id: NSL 182460. locality: Farmstore, Chitseko. Cultivated. Seed.
- PI 521771 donor id: SAD 0312. origin: Malawi. collected: March 22, 1979. collector id: SAD 0312. other id: NSL 182461. locality: Farmstore, Bitoni. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521772 donor id: SAD 0313. origin: Malawi. collected: March 22, 1979. collector id: SAD 0313. other id: NSL 182462. locality: Farmstore, Bitoni. Cultivated. Seed.
- PI 521773 donor id: SAD 0316. origin: Malawi. collected: March 22, 1979. collector id: SAD 0316. other id: NSL 182463. locality: Farmstore, Chinolo. Cultivated. Seed.
- PI 521774 donor id: SAD 0318. origin: Malawi. collected: March 22, 1979. collector id: SAD 0318. other id: NSL 182464. locality: Mill, Chiromo. Cultivated. Seed.
- PI 521775 donor id: SAD 0332. origin: Malawi. collected: March 23, 1979. collector id: SAD 0332. other id: NSL 182465. locality: Farmstore, Gonkho. Cultivated. Seed.
- PI 521776 donor id: SAD 0333. origin: Malawi. collected: March 23, 1979. collector id: SAD 0333. other id: NSL 182466. locality: Farmstore, Gonkho. Cultivated. Seed.
- PI 521777 donor id: SAD 0334. origin: Malawi. collected: March 23, 1979. collector id: SAD 0334. other id: NSL 182467. locality: Farmstore, Gonkho. Cultivated. Seed.
- PI 521778 donor id: SAD 0336. origin: Malawi. collected: March 23, 1979. collector id: SAD 0336. other id: NSL 182468. locality: Farmstore, Gonkho. Cultivated. Seed.
- PI 521779 donor id: SAD 0337. origin: Malawi. collected: March 23, 1979. collector id: SAD 0337. other id: NSL 182469. locality: Farmstore, Gonkho. Cultivated. Seed.
- PI 521780 donor id: SAD 0351. origin: Malawi. collected: March 23, 1979. collector id: SAD 0351. other id: NSL 182470. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521781 donor id: SAD 0352. origin: Malawi. collected: March 23, 1979. collector id: SAD 0352. other id: NSL 182471. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521782 donor id: SAD 0353. origin: Malawi. collected: March 23, 1979. collector id: SAD 0353. other id: NSL 182472. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521783 donor id: SAD 0354. origin: Malawi. collected: March 23, 1979. collector id: SAD 0354. other id: NSL 182473. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521784 donor id: SAD 0355. origin: Malawi. collected: March 23, 1979. collector id: SAD 0355. other id: NSL 182474. locality: Farmstore, Tsekera. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521785 donor id: SAD 0356. origin: Malawi. local name: Kapeele. collected: March 23, 1979. collector id: SAD 0356. other id: NSL 182475. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521786 donor id: SAD 0357. origin: Malawi. local name: Kachelewende. collected: March 23, 1979. collector id: SAD 0357. other id: NSL 182476. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521787 donor id: SAD 0358. origin: Malawi. collected: March 23, 1979. collector id: SAD 0358. other id: NSL 182477. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521788 donor id: SAD 0360. origin: Malawi. local name: Kachelewende. collected: March 23, 1979. collector id: SAD 0360. other id: NSL 182478. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521789 donor id: SAD 0361. origin: Malawi. local name: Kavalazua. collected: March 23, 1979. collector id: SAD 0361. other id: NSL 182479. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521790 donor id: SAD 0362. origin: Malawi. collected: March 23, 1979. collector id: SAD 0362. other id: NSL 182480. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521791 donor id: SAD 0363. origin: Malawi. collected: March 23, 1979. collector id: SAD 0363. other id: NSL 182481. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521792 donor id: SAD 0364. origin: Malawi. collected: March 23, 1979. collector id: SAD 0364. other id: NSL 182482. locality: Farmstore, Tsekera. Cultivated. Seed.
- PI 521793 donor id: SAD 0385. origin: Malawi. local name: Kapeele. collected: March 24, 1979. collector id: SAD 0385. other id: NSL 182483. locality: Farmstore, Tomali. Cultivated. Seed.
- PI 521794 donor id: SAD 0387. origin: Malawi. collected: March 24, 1979. collector id: SAD 0387. other id: NSL 182484. locality: Farmstore, Tomali. Cultivated. Seed.
- PI 521795 donor id: SAD 0388. origin: Malawi. local name: Shabalala. collected: March 24, 1979. collector id: SAD 0388. other id: NSL 182485. locality: Farmstore, Mastade. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521796 donor id: SAD 0390. origin: Malawi. local name: Kashonthe. collected: March 24, 1979. collector id: SAD 0390. other id: NSL 182486. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521797 donor id: SAD 0391. origin: Malawi. collected: March 24, 1979. collector id: SAD 0391. other id: NSL 182487. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521798 donor id: SAD 0392. origin: Malawi. collected: March 24, 1979. collector id: SAD 0392. other id: NSL 182488. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521799 donor id: SAD 0395. origin: Malawi. collected: March 24, 1979. collector id: SAD 0395. other id: NSL 182489. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521800 donor id: SAD 0396. origin: Malawi. local name: Kashonthe. collected: March 24, 1979. collector id: SAD 0396. other id: NSL 182490. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521801 donor id: SAD 0397. origin: Malawi. collected: March 24, 1979. collector id: SAD 0397. other id: NSL 182491. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521802 donor id: SAD 0399. origin: Malawi. local name: Zambia. collected: March 24, 1979. collector id: SAD 0399. other id: NSL 182492. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521803 donor id: SAD 0405. origin: Malawi. collected: March 24, 1979. collector id: SAD 0405. other id: NSL 182494. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521804 donor id: SAD 0411A. origin: Malawi. local name: Zambia. collected: March 24, 1979. collector id: SAD 0411A. other id: NSL 182495. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521805 donor id: SAD 0414. origin: Malawi. collected: March 24, 1979. collector id: SAD 0414. other id: NSL 182496. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521806 donor id: SAD 0418B. origin: Malawi. local name: Kavalazua. collected: March 24, 1979. collector id: SAD 0418B. other id: NSL 182497. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521807 donor id: SAD 0419. origin: Malawi. collected: March 24, 1979. collector id: SAD 0419. other id: NSL 182498. locality: Farmstore, Mastade. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521808 donor id: SAD 0420. origin: Malawi. collected: March 24, 1979. collector id: SAD 0420. other id: NSL 182499. locality: Farmstore, Mastade. Cultivated. Seed.
- PI 521809 donor id: SAD 0423. origin: Malawi. collected: March 24, 1979. collector id: SAD 0423. other id: NSL 182500. locality: Farmstore, Tomali. Cultivated. Seed.
- PI 521810 donor id: SAD 0424. origin: Malawi. local name: Kashonthe. collected: March 24, 1979. collector id: SAD 0424. other id: NSL 182501. locality: Farmstore, Tomali. Wild. Seed.
- PI 521811 donor id: SAD 0425. origin: Malawi. local name: Kashonthe. collected: March 24, 1979. collector id: SAD 0425. other id: NSL 182502. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521812 donor id: SAD 0426. origin: Malawi. local name: Kashonthe. collected: March 24, 1979. collector id: SAD 0426. other id: NSL 182503. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521813 donor id: SAD 0427. origin: Malawi. local name: Misale. collected: March 24, 1979. collector id: SAD 0427. other id: NSL 182504. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521814 donor id: SAD 0428. origin: Malawi. local name: Zambia. collected: March 24, 1979. collector id: SAD 0428. other id: NSL 182505. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521815 donor id: SAD 0434. origin: Malawi. collected: March 25, 1979. collector id: SAD 0434. other id: NSL 182506. locality: Farmstore, Tyolo. Cultivated. Seed.
- PI 521816 donor id: SAD 0435. origin: Malawi. collected: March 25, 1979. collector id: SAD 0435. other id: NSL 182507. locality: Farmstore, Tyolo. Cultivated. Seed.
- PI 521817 donor id: SAD 0442. origin: Malawi. collected: March 26, 1979. collector id: SAD 0442. other id: NSL 182508. locality: Farmstore, Nalingula. Cultivated. Seed.
- PI 521818 donor id: SAD 0443. origin: Malawi. collected: March 26, 1979. collector id: SAD 0443. other id: NSL 182509. locality: Farmstore, Nalingula. Cultivated. Seed.
- PI 521819 donor id: SAD 0447. origin: Malawi. collected: March 26, 1979. collector id: SAD 0447. other id: NSL 182510. locality: Farmstore, Naringula. Cultivated. Seed.



PI 521673 to 521856-continued

- PI 521820 donor id: SAD 0456. origin: Malawi. collected: March 26, 1979. collector id: SAD 0456. other id: NSL 182511. locality: Farmstore, Nyozeni. Cultivated. Seed.
- PI 521821 donor id: SAD 0457. origin: Malawi. collected: March 26, 1979. collector id: SAD 0457. other id: NSL 182512. locality: Farmstore, Nyozeni. Cultivated. Seed.
- PI 521822 donor id: SAD 0466. origin: Malawi. collected: March 26, 1979. collector id: SAD 0466. other id: NSL 182513. locality: Farmstore, Nyozeni. Cultivated. Seed.
- PI 521823 donor id: SAD 0467. origin: Malawi. local name: Kavalazua. collected: March 26, 1979. collector id: SAD 0467. other id: NSL 182514. locality: Farmstore, Nyozeni. Cultivated. Seed.
- PI 521824 donor id: SAD 0476. origin: Malawi. collected: March 26, 1979. collector id: SAD 0476. other id: NSL 182515. locality: Farmstore, Mate kenya. Cultivated. Seed.
- PI 521825 donor id: SAD 0478. origin: Malawi. collected: March 26, 1979. collector id: SAD 0478. other id: NSL 182516. locality: Farmstore, Mate kenya. Cultivated. Seed.
- PI 521826 donor id: SAD 0484. origin: Malawi. collected: March 26, 1979. collector id: SAD 0484. other id: NSL 182517. locality: Farmstore, Marshu. Cultivated. Seed.
- PI 521827 donor id: SAD 0486. origin: Malawi. collected: March 26, 1979. collector id: SAD 0486. other id: NSL 182518. locality: Farmstore, Marshu. Cultivated. Seed.
- PI 521828 donor id: SAD 0487. origin: Malawi. collected: March 26, 1979. collector id: SAD 0487. other id: NSL 182519. locality: Farmstore, Marshu. Cultivated. Seed.
- PI 521829 donor id: SAD 0488. origin: Malawi. collected: March 26, 1979. collector id: SAD 0488. other id: NSL 182520. locality: Farmstore, Marshu. Cultivated. Seed.
- PI 521830 donor id: SAD 0490. origin: Malawi. collected: March 26, 1979. collector id: SAD 0490. other id: NSL 182521. locality: Farmstore, Marshu. Cultivated. Seed.
- PI 521831 donor id: SAD 0493. origin: Malawi. collected: March 26, 1979. collector id: SAD 0493. other id: NSL 182522. locality: Farmstore, Marshu. Cultivated. Seed.
- PI 521832 donor id: SAD 0494. origin: Malawi. collected: March 26, 1979. collector id: SAD 0494. other id: NSL 182523. locality: Farmstore, Mate kenya. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521833 donor id: SAD 0500. origin: Malawi. collected: March 26, 1979. collector id: SAD 0500. other id: NSL 182524. locality: Farmstore, Mate kenya. Cultivated. Seed.
- PI 521834 donor id: SAD 0501. origin: Malawi. collected: March 26, 1979. collector id: SAD 0501. other id: NSL 182525. locality: Farmstore, Mate kenya. Cultivated. Seed.
- PI 521835 donor id: SAD 0503. origin: Malawi. collected: March 26, 1979. collector id: SAD 0503. other id: NSL 182526. locality: Farmstore, Mate kenya. Cultivated. Seed.
- PI 521836 donor id: SAD 0504. origin: Malawi. collected: March 26, 1979. collector id: SAD 0504. other id: NSL 182527. locality: Farmstore, Mate kenya. Cultivated. Seed.
- PI 521837 donor id: SAD 0505. origin: Malawi. collected: March 26, 1979. collector id: SAD 0505. other id: NSL 182528. locality: Farmstore, Mate kenya. Cultivated. Seed.
- PI 521838 donor id: SAD 0517. origin: Malawi. collected: March 27, 1979. collector id: SAD 0517. other id: NSL 182529. locality: Farmstore, Lunzu. Cultivated. Seed.
- PI 521839 donor id: SAD 0523. origin: Malawi. local name: Misale. collected: March 27, 1979. collector id: SAD 0523. other id: NSL 182530. locality: Farmstore, Balaka. Cultivated. Seed.
- PI 521840 donor id: SAD 0535. origin: Malawi. collected: March 28, 1979. collector id: SAD 0535. other id: NSL 182531. locality: Farmstore, Balaka. Cultivated. Seed.
- PI 521841 donor id: SAD 0537. origin: Malawi. local name: Misale. collected: March 28, 1979. collector id: SAD 0537. other id: NSL 182532. locality: Farmstore, Balaka. Cultivated. Seed.
- PI 521842 donor id: SAD 0539. origin: Malawi. collected: March 28, 1979. collector id: SAD 0539. other id: NSL 182533. locality: Farmstore, Balaka. Cultivated. Seed.
- PI 521843 donor id: SAD 0540. origin: Malawi. collected: March 28, 1979. collector id: SAD 0540. other id: NSL 182534. locality: Farmstore, Chireembe. Cultivated. Seed.
- PI 521844 donor id: SAD 0541. origin: Malawi. collected: March 28, 1979. collector id: SAD 0541. other id: NSL 182535. locality: Farmstore, Chireembe. Cultivated. Seed.

PI 521673 to 521856-continued

- PI 521845 donor id: SAD 0555. origin: Malawi. collected: March 29, 1979. collector id: SAD 0555. other id: NSL 182536. locality: Farmstore, Nchisa. Cultivated. Seed.
- PI 521846 donor id: SAD 0560. origin: Malawi. collected: March 29, 1979. collector id: SAD 0560. other id: NSL 182537. locality: Farmstore, Nchisa. Cultivated. Seed.
- PI 521847 donor id: SAD 0561. origin: Malawi. collected: March 29, 1979. collector id: SAD 0561. other id: NSL 182538. locality: Farmstore, Nchisa. Cultivated. Seed.
- PI 521848 donor id: SAD 0569. origin: Malawi. local name: Misale. collected: March 29, 1979. collector id: SAD 0569. other id: NSL 182539. locality: Farmstore, Tanubuli. Cultivated. Seed.
- PI 521849 donor id: SAD 0572. origin: Malawi. collected: March 29, 1979. collector id: SAD 0572. other id: NSL 182540. locality: Farmstore, Tanubuli. Cultivated. Seed.
- PI 521850 donor id: SAD 0573. origin: Malawi. collected: March 29, 1979. collector id: SAD 0573. other id: NSL 182541. locality: Farmstore, Tanubuli. Cultivated. Seed.
- PI 521851 donor id: SAD 0578. origin: Malawi. collected: March 29, 1979. collector id: SAD 0578. other id: NSL 182542. locality: Farmstore, Tanubuli. Cultivated. Seed.
- PI 521852 donor id: SAD 0579. origin: Malawi. collected: March 29, 1979. collector id: SAD 0579. other id: NSL 182543. locality: Farmstore, Tanubuli. Cultivated. Seed.
- PI 521853 donor id: SAD 0581. origin: Malawi. collected: March 29, 1979. collector id: SAD 0581. other id: NSL 182544. locality: Farmstore, Tanubuli. Cultivated. Seed.
- PI 521854 donor id: SAD 0583. origin: Malawi. collected: March 29, 1979. collector id: SAD 0583. other id: NSL 182545. locality: Farmstore, Tanubuli. Cultivated. Seed.
- PI 521855 donor id: SAD 0585. origin: Malawi. collected: March 29, 1979. collector id: SAD 0585. other id: NSL 182546. locality: Farmstore, Tanubuli. Cultivated. Seed.
- PI 521856 donor id: SAD 0598. origin: Malawi. collected: March 29, 1979. collector id: SAD 0598. other id: NSL 182547. locality: Farmstore, Mangechi. Cultivated. Seed.

PI 521857. *Zea mays* L. POACEAE Corn

Donated by: Kere, D., and Zangre, R., Direction des Services Agricoles, IVRAZ, Station de Kamboinee, Burkina Faso. remarks: Received through IPBGR, Rome, Italy. Received August 19, 1988.

donor id: 302. origin: Burkina Faso. collector id: 302.  
Seed.

PI 521858 to 522095. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Rao, S.A., ICRISAT, Genetic Resources Unit, Patancheru P.O., Andhra Pradesh, India; and Denton, I.R., IBPGR, Rome, Italy; and Sibale, P., Chitedze Agricultural Research Station, Ministry of Agriculture, Malawi. remarks: Received through IBPGR, Rome, Italy. Collectors S.A. Rao, I.R. Denton, P. Sibale, and J. Kumwenda. Received October 1979.

PI 521858 donor id: SAD 0602. origin: Malawi. collected: March 29, 1979. collector id: SAD 0602. other id: NSL 182548. locality: Farmstore, Mangechi. Cultivated. Seed.

PI 521859 donor id: SAD 0604. origin: Malawi. collected: March 29, 1979. collector id: SAD 0604. other id: NSL 182549. locality: Farmstore, Chimbende. Cultivated. Seed.

PI 521860 donor id: SAD 0605. origin: Malawi. collected: March 29, 1979. collector id: SAD 0605. other id: NSL 182550. locality: Farmstore, Chimbende. Cultivated. Seed.

PI 521861 donor id: SAD 0609. origin: Malawi. collected: March 29, 1979. collector id: SAD 0609. other id: NSL 182551. locality: Farmstore, Manpuchi. Wild. Seed.

PI 521862 donor id: SAD 0614. origin: Malawi. collected: March 29, 1979. collector id: SAD 0614. other id: NSL 182552. locality: Farmstore, Chaweatan. Cultivated. Seed.

PI 521863 donor id: SAD 0620. origin: Malawi. collected: March 20, 1979. collector id: SAD 0620. other id: NSL 182553. locality: Farmstore, Chaweatan. Cultivated. Seed.

PI 521864 donor id: SAD 0623. origin: Malawi. collected: March 29, 1979. collector id: SAD 0623. other id: NSL 182554. locality: Farmstore, Chaweatan. Cultivated. Seed.

PI 521865 donor id: SAD 0624. origin: Malawi. collected: March 29, 1979. collector id: SAD 0624. other id: NSL 182555. locality: Farmstore, Chaweatan. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521866 donor id: SAD 0625. origin: Malawi. local name: Misale. collected: March 29, 1979. collector id: SAD 0625. other id: NSL 182556. locality: Farmstore, Chaweatan. Cultivated. Seed.
- PI 521867 donor id: SAD 0626A. origin: Malawi. collected: March 29, 1979. collector id: SAD 0626A. other id: NSL 182557. locality: Farmstore, Chaweatan. Cultivated. Seed.
- PI 521868 donor id: SAD 0626B. origin: Malawi. collected: March 29, 1979. collector id: SAD 0626B. other id: NSL 182558. locality: Farmstore, Chaweatan. Cultivated. Seed.
- PI 521869 donor id: SAD 0629. origin: Malawi. collected: March 29, 1979. collector id: SAD 0629. other id: NSL 182559. locality: Farmstore, Chaweatan. Cultivated. Seed.
- PI 521870 donor id: SAD 0630. origin: Malawi. local name: Makakola. collected: March 30, 1979. collector id: SAD 0630. other id: NSL 182560. locality: Farmstore, Phumulia. Cultivated. Seed.
- PI 521871 donor id: SAD 0635. origin: Malawi. collected: March 30, 1979. collector id: SAD 0635. other id: NSL 182561. locality: Farmstore, Phumulia. Cultivated. Seed.
- PI 521872 donor id: SAD 0644. origin: Malawi. collected: March 30, 1979. collector id: SAD 0644. other id: NSL 182562. locality: Farmstore, Chigonelia. Cultivated. Seed.
- PI 521873 donor id: SAD 0658. origin: Malawi. collected: March 31, 1979. collector id: SAD 0658. other id: NSL 182563. locality: Farmstore, Chinguluwe. Cultivated. Seed.
- PI 521874 donor id: SAD 0659. origin: Malawi. collected: March 31, 1979. collector id: SAD 0659. other id: NSL 182564. locality: Farmstore, Chinguluwe. Cultivated. Seed.
- PI 521875 donor id: SAD 0660. origin: Malawi. collected: March 31, 1979. collector id: SAD 0660. other id: NSL 182565. locality: Farmstore, Chinguluwe. Cultivated. Seed.
- PI 521876 donor id: SAD 0667. origin: Malawi. collected: March 31, 1979. collector id: SAD 0667. other id: NSL 182566. locality: Farmstore, Chinguluwe. Cultivated. Seed.
- PI 521877 donor id: SAD 0668. origin: Malawi. collected: March 31, 1979. collector id: SAD 0668. other id: NSL 182567. locality: Farmstore, Chinguluwe. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521878 donor id: SAD 0673. origin: Malawi. local name: Misale. collected: March 31, 1979. collector id: SAD 0673. other id: NSL 182568. locality: Farmstore, Chilamde. Cultivated. Seed.
- PI 521879 donor id: SAD 0678. origin: Malawi. local name: Misale. collected: March 31, 1979. collector id: SAD 0678. other id: NSL 182569. locality: Farmstore, Kakwesi. Cultivated. Seed.
- PI 521880 donor id: SAD 0679. origin: Malawi. collected: March 31, 1979. collector id: SAD 0679. other id: NSL 182570. locality: Farmstore, Kakwesi. Cultivated. Seed.
- PI 521881 donor id: SAD 0681. origin: Malawi. collected: March 31, 1979. collector id: SAD 0681. other id: NSL 182571. locality: Farmstore, Kakwesi. Cultivated. Seed.
- PI 521882 donor id: SAD 0682. origin: Malawi. local name: Misale. collected: March 31, 1979. collector id: SAD 0682. other id: NSL 182572. locality: Farmstore, Kakwesi. Cultivated. Seed.
- PI 521883 donor id: SAD 0684. origin: Malawi. local name: Kambwiri. collected: April 01, 1979. collector id: SAD 0684. other id: NSL 182573. locality: Farmstore, Salima. Wild. Seed.
- PI 521884 donor id: SAD 0686. origin: Malawi. local name: Misale. collected: April 01, 1979. collector id: SAD 0686. other id: NSL 182574. locality: Farmstore, Muchakama. Cultivated. Seed.
- PI 521885 donor id: SAD 0687. origin: Malawi. collected: April 01, 1979. collector id: SAD 0687. other id: NSL 182575. locality: Farmstore, Muchakama. Cultivated. Seed.
- PI 521886 donor id: SAD 0692. origin: Malawi. collected: April 01, 1979. collector id: SAD 0692. other id: NSL 182576. locality: Farmstore, Malapa. Cultivated. Seed.
- PI 521887 donor id: SAD 0693. origin: Malawi. collected: April 01, 1979. collector id: SAD 0693. other id: NSL 182577. locality: Farmstore, Malapa. Cultivated. Seed.
- PI 521888 donor id: SAD 0694. origin: Malawi. collected: April 01, 1979. collector id: SAD 0694. other id: NSL 182457. locality: Farmstore, Malapa. Cultivated. Seed.
- PI 521889 donor id: SAD 0695. origin: Malawi. collected: April 01, 1979. collector id: SAD 0695. other id: NSL 182578. locality: Farmstore, Malapa. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521890 donor id: SAD 0698. origin: Malawi. local name: Misale. collected: April 01, 1979. collector id: SAD 0698. other id: NSL 182579. locality: Farmstore, Ngelemi. Cultivated. Seed.
- PI 521891 donor id: SAD 0699. origin: Malawi. collected: April 01, 1979. collector id: SAD 0699. other id: NSL 182580. locality: Farmstore, Ngelemi. Cultivated. Seed.
- PI 521892 donor id: SAD 0700. origin: Malawi. collected: April 01, 1979. collector id: SAD 0700. other id: NSL 182581. locality: Farmstore, Ngelemi. Cultivated. Seed.
- PI 521893 donor id: SAD 0702. origin: Malawi. collected: April 01, 1979. collector id: SAD 0702. other id: NSL 182582. locality: Farmstore, Ngelawi. Cultivated. Seed.
- PI 521894 donor id: SAD 0709. origin: Malawi. local name: Misale. collected: April 05, 1979. collector id: SAD 0709. other id: NSL 182583. locality: Farmstore, Kawale. Cultivated. Seed.
- PI 521895 donor id: SAD 0710. origin: Malawi. collected: April 05, 1979. collector id: SAD 0710. other id: NSL 182584. locality: Farmstore, Kawale. Cultivated. Seed.
- PI 521896 donor id: SAD 0715. origin: Malawi. collected: April 05, 1979. collector id: SAD 0715. other id: NSL 182585. locality: Farmstore, Gogo. Cultivated. Seed.
- PI 521897 donor id: SAD 0716. origin: Malawi. local name: Beni. collected: April 05, 1979. collector id: SAD 0716. other id: NSL 182586. locality: Farmstore, Gogo. Cultivated. Seed.
- PI 521898 donor id: SAD 0717. origin: Malawi. collected: April 05, 1979. collector id: SAD 0717. other id: NSL 182587. locality: Farmstore, Dedza. Cultivated. Seed.
- PI 521899 donor id: SAD 0718A. origin: Malawi. local name: Ngalabango. collected: April 05, 1979. collector id: SAD 0718A. other id: NSL 182588. locality: Farmstore, Dedza. Cultivated. Seed.
- PI 521900 donor id: SAD 0718B. origin: Malawi. local name: Ngalabango. collected: April 05, 1979. collector id: SAD 0718B. other id: NSL 182589. locality: Farmstore, Dedza. Cultivated. Seed.
- PI 521901 donor id: SAD 0719A. origin: Malawi. collected: April 05, 1979. collector id: SAD 0719A. other id: NSL 182590. locality: Farmstore, Dedza. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521902 donor id: SAD 0719B. origin: Malawi. collected: April 05, 1979. collector id: SAD 0719B. other id: NSL 182591. locality: Farmstore, Dedza. Cultivated. Seed.
- PI 521903 donor id: SAD 0723. origin: Malawi. collected: April 05, 1979. collector id: SAD 0723. other id: NSL 182592. locality: Farmstore, Balya. Cultivated. Seed.
- PI 521904 donor id: SAD 0726B. origin: Malawi. collected: April 05, 1979. collector id: SAD 0726B. other id: NSL 182593. locality: Farmstore, Balya. Cultivated. Seed.
- PI 521905 donor id: SAD 0728A. origin: Malawi. collected: April 05, 1979. collector id: SAD 0728A. other id: NSL 182594. locality: Farmstore, Mitundu. Cultivated. Seed.
- PI 521906 donor id: SAD 0729. origin: Malawi. collected: April 06, 1979. collector id: SAD 0729. other id: NSL 182595. locality: Farmstore, Madisi. Cultivated. Seed.
- PI 521907 donor id: SAD 0733. origin: Malawi. local name: Misale. collected: April 06, 1979. collector id: SAD 0733. other id: NSL 182596. locality: Farmstore, Mnthembwe. Cultivated. Seed.
- PI 521908 donor id: SAD 0734. origin: Malawi. collected: April 06, 1979. collector id: SAD 0734. other id: NSL 182597. locality: Farmstore, Mnthembwe. Cultivated. Seed.
- PI 521909 donor id: SAD 0735A. origin: Malawi. collected: April 06, 1979. collector id: SAD 0735A. other id: NSL 182598. locality: Farmstore, Mnthembwe. Cultivated. Seed.
- PI 521910 donor id: SAD 0739. origin: Malawi. local name: Rhodesia. collected: April 06, 1979. collector id: SAD 0739. other id: NSL 182599. locality: Farmstore, Mnthembwe. Cultivated. Seed.
- PI 521911 donor id: SAD 0740. origin: Malawi. collected: April 06, 1979. collector id: SAD 0740. other id: NSL 182600. locality: Farmstore, Mnthembwe. Cultivated. Seed.
- PI 521912 donor id: SAD 0741A. origin: Malawi. collected: April 06, 1979. collector id: SAD 0741A. other id: NSL 182601. locality: Farmstore, Chinkhombure. Cultivated. Seed.



PI 521858 to 522095-continued

- PI 521913 donor id: SAD 0741B. origin: Malawi. collected: April 06, 1979. collector id: SAD 0741B. other id: NSL 182784. locality: Farmstore, Chinkhombure. Cultivated. Seed.
- PI 521914 donor id: SAD 0742. origin: Malawi. collected: April 06, 1979. collector id: SAD 0742. other id: NSL 182602. locality: Farmstore, Chinkhombure. Cultivated. Seed.
- PI 521915 donor id: SAD 0743. origin: Malawi. collected: April 06, 1979. collector id: SAD 0743. other id: NSL 182603. locality: Farmstore, Chinkhombure. Cultivated. Seed.
- PI 521916 donor id: SAD 0745. origin: Malawi. collected: April 06, 1979. collector id: SAD 0745. other id: NSL 182604. locality: Farmstore, Nkhota-kota. Cultivated. Seed.
- PI 521917 donor id: SAD 0747. origin: Malawi. local name: Misale. collected: April 06, 1979. collector id: SAD 0747. other id: NSL 182605. locality: Farmstore, Nkhota-kota. Cultivated. Seed.
- PI 521918 donor id: SAD 0748. origin: Malawi. local name: Misale. collected: April 06, 1979. collector id: SAD 0748. other id: NSL 182606. locality: Farmstore, Nkhota-kota. Cultivated. Seed.
- PI 521919 donor id: SAD 0751. origin: Malawi. local name: Misale. collected: April 06, 1979. collector id: SAD 0751. other id: NSL 182607. locality: Farmstore, Chanana. Cultivated. Seed.
- PI 521920 donor id: SAD 0752. origin: Malawi. collected: April 06, 1979. collector id: SAD 0752. other id: NSL 182608. locality: Farmstore, Chanana. Cultivated. Seed.
- PI 521921 donor id: SAD 0753. origin: Malawi. local name: Misale. collected: April 06, 1979. collector id: SAD 0753. other id: NSL 182609. locality: Farmstore, Chanana. Cultivated. Seed.
- PI 521922 donor id: SAD 0754. origin: Malawi. local name: Misale. collected: April 06, 1979. collector id: SAD 0754. other id: NSL 182610. locality: Farmstore, Wimbe. Cultivated. Seed.
- PI 521923 donor id: SAD 0755. origin: Malawi. local name: Misale. collected: April 06, 1979. collector id: SAD 0755. other id: NSL 182611. locality: Farmstore, Wimbe. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521924 donor id: SAD 0770. origin: Malawi. local name: Misale. collected: April 07, 1979. collector id: SAD 0770. other id: NSL 182612. locality: Farmstore, Saponi. Cultivated. Seed.
- PI 521925 donor id: SAD 0776. origin: Malawi. local name: Misale. collected: April 07, 1979. collector id: SAD 0776. other id: NSL 182613. locality: Farmstore, Saponi. Cultivated. Seed.
- PI 521926 donor id: SAD 0785. origin: Malawi. local name: Misale. collected: April 09, 1979. collector id: SAD 0785. other id: NSL 182614. locality: Farmstore, Chidomba. Cultivated. Seed.
- PI 521927 donor id: SAD 0794. origin: Malawi. collected: April 10, 1979. collector id: SAD 0794. other id: NSL 182615. locality: Farmstore, Chuya. Cultivated. Seed.
- PI 521928 donor id: SAD 0800. origin: Malawi. collected: April 10, 1979. collector id: SAD 0800. other id: NSL 182616. locality: Farmstore, Mozinge. Cultivated. Seed.
- PI 521929 donor id: SAD 0804. origin: Malawi. collected: April 10, 1979. collector id: SAD 0804. other id: NSL 182617. locality: Farmstore, Zingavge. Cultivated. Seed.
- PI 521930 donor id: SAD 0809. origin: Malawi. collected: April 10, 1979. collector id: SAD 0809. other id: NSL 182618. locality: Farmstore, Kumarambo. Cultivated. Seed.
- PI 521931 donor id: SAD 0821A. origin: Malawi. collected: April 10, 1979. collector id: SAD 0821A. other id: NSL 182619. locality: Farmstore, Euthini. Cultivated. Seed.
- PI 521932 donor id: SAD 0822. origin: Malawi. collected: April 10, 1979. collector id: SAD 0822. other id: NSL 182620. locality: Farmstore, Euthini. Cultivated. Seed.
- PI 521933 donor id: SAD 0828A. origin: Malawi. collected: April 10, 1979. collector id: SAD 0828A. other id: NSL 182621. locality: Farmstore, Chi Kapu. Cultivated. Seed.
- PI 521934 donor id: SAD 0829. origin: Malawi. collected: April 10, 1979. collector id: SAD 0829. other id: NSL 182622. locality: Farmstore, Chidomba. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521935 donor id: SAD 0833B. origin: Malawi. collected: April 10, 1979. collector id: SAD 0833B. other id: NSL 182623. locality: Farmstore, Malalawai. Cultivated. Seed.
- PI 521936 donor id: SAD 0840. origin: Malawi. collected: April 11, 1979. collector id: SAD 0840. other id: NSL 182624. locality: Farmstore, Mtande. Cultivated. Seed.
- PI 521937 donor id: SAD 0841. origin: Malawi. collected: April 11, 1979. collector id: SAD 0841. other id: NSL 182625. locality: Farmstore, Mtande. Cultivated. Seed.
- PI 521938 donor id: SAD 0842. origin: Malawi. collected: April 11, 1979. collector id: SAD 0842. other id: NSL 182626. locality: Farmstore, Mtande. Cultivated. Seed.
- PI 521939 donor id: SAD 0853. origin: Malawi. collected: April 12, 1979. collector id: SAD 0853. other id: NSL 182627. locality: Farmstore, Bolero. Cultivated. Seed.
- PI 521940 donor id: SAD 0854. origin: Malawi. collected: April 12, 1979. collector id: SAD 0854. other id: NSL 182628. locality: Farmstore, Bolero. Cultivated. Seed.
- PI 521941 donor id: SAD 0857. origin: Malawi. collected: April 12, 1979. collector id: SAD 0857. other id: NSL 182629. locality: Farmstore, Bolero. Cultivated. Seed.
- PI 521942 donor id: SAD 0864. origin: Malawi. local name: Ndikhwa. collected: April 14, 1979. collector id: SAD 0864. other id: NSL 182630. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521943 donor id: SAD 0865. origin: Malawi. local name: Zambia. collected: April 14, 1979. collector id: SAD 0865. other id: NSL 182631. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 521944 donor id: SAD 0866. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0866. other id: NSL 182632. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521945 donor id: SAD 0866B. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0866B. other id: NSL 182783. locality: Farmstore, Zunge. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521946 donor id: SAD 0867. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0867. other id: NSL 182633. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521947 donor id: SAD 0868. origin: Malawi. collected: April 14, 1979. collector id: SAD 0868. other id: NSL 182634. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521948 donor id: SAD 0869. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0869. other id: NSL 182635. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521949 donor id: SAD 0870. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0870. other id: NSL 182636. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521950 donor id: SAD 0871. origin: Malawi. collected: April 14, 1979. collector id: SAD 0871. other id: NSL 182637. locality: Field, Zunge. Wild. Seed.
- PI 521951 donor id: SAD 0872. origin: Malawi. local name: Zambia. collected: April 14, 1979. collector id: SAD 0872. other id: NSL 182638. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521952 donor id: SAD 0873. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0873. other id: NSL 182639. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521953 donor id: SAD 0876. origin: Malawi. local name: Ndikhwa. collected: April 14, 1979. collector id: SAD 0876. other id: NSL 182640. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521954 donor id: SAD 0877. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0877. other id: NSL 182641. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521955 donor id: SAD 0878. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0878. other id: NSL 182642. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521956 donor id: SAD 0879. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0879. other id: NSL 182643. locality: Farmstore, Zunge. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521957 donor id: SAD 0880. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0880. other id: NSL 182644. locality: Farmstore, Zunge. Cultivated. Seed.
- PI 521958 donor id: SAD 0881. origin: Malawi. collected: April 14, 1979. collector id: SAD 0881. other id: NSL 182645. locality: Field, Gugu. Wild. Seed.
- PI 521959 donor id: SAD 0882. origin: Malawi. collected: April 14, 1979. collector id: SAD 0882. other id: NSL 182646. locality: Field, Gugu. Cultivated. Seed.
- PI 521960 donor id: SAD 0883. origin: Malawi. collected: April 14, 1979. collector id: SAD 0883. other id: NSL 182647. locality: Field, Gugu. Cultivated. Seed.
- PI 521961 donor id: SAD 0884. origin: Malawi. local name: Zambia. collected: April 14, 1979. collector id: SAD 0884. other id: NSL 182648. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521962 donor id: SAD 0885. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0885. other id: NSL 182649. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521963 donor id: SAD 0886. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0886. other id: NSL 182650. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521964 donor id: SAD 0887. origin: Malawi. local name: Kashonhe. collected: April 14, 1979. collector id: SAD 0887. other id: NSL 182651. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521965 donor id: SAD 0888. origin: Malawi. local name: Ndikhwa. collected: April 14, 1979. collector id: SAD 0888. other id: NSL 182652. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521966 donor id: SAD 0889. origin: Malawi. local name: Zambia. collected: April 14, 1979. collector id: SAD 0889. other id: NSL 182653. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521967 donor id: SAD 0890. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0890. other id: NSL 182654. locality: Farmstore, Nsangwe. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521968 donor id: SAD 0891. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0891. other id: NSL 182655. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521969 donor id: SAD 0892. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0892. other id: NSL 182656. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521970 donor id: SAD 0893. origin: Malawi. collected: April 14, 1979. collector id: SAD 0893. other id: NSL 182657. locality: Farmstore, Nsangwe. Wild. Seed.
- PI 521971 donor id: SAD 0894. origin: Malawi. local name: Zambia. collected: April 14, 1979. collector id: SAD 0894. other id: NSL 182658. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521972 donor id: SAD 0895. origin: Malawi. local name: Tenggara Manga. collected: April 14, 1979. collector id: SAD 0895. other id: NSL 182659. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521973 donor id: SAD 0896. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0896. other id: NSL 182660. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521974 donor id: SAD 0897. origin: Malawi. local name: Ndikhwa. collected: April 14, 1979. collector id: SAD 0897. other id: NSL 182661. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521975 donor id: SAD 0898. origin: Malawi. local name: Tengaramana. collected: April 14, 1979. collector id: SAD 0898. other id: NSL 182662. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521976 donor id: SAD 0899. origin: Malawi. local name: Kavalazua. collected: April 14, 1979. collector id: SAD 0899. other id: NSL 182663. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521977 donor id: SAD 0901. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0901. other id: NSL 182664. locality: Farmstore, Nsangwe. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521978 donor id: SAD 0902. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0902. other id: NSL 182665. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521979 donor id: SAD 0903. origin: Malawi. collected: April 14, 1979. collector id: SAD 0903. other id: NSL 182666. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521980 donor id: SAD 0904. origin: Malawi. local name: Masotongono. collected: April 14, 1979. collector id: SAD 0904. other id: NSL 182667. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521981 donor id: SAD 0905. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0905. other id: NSL 182668. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521982 donor id: SAD 0906. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0906. other id: NSL 182669. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521983 donor id: SAD 0907. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0907. other id: NSL 182670. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521984 donor id: SAD 0908. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0908. other id: NSL 182671. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521985 donor id: SAD 0909. origin: Malawi. collected: April 14, 1979. collector id: SAD 0909. other id: NSL 182672. locality: Farmstore, Nsangwe. Wild. Seed.
- PI 521986 donor id: SAD 0910. origin: Malawi. collected: April 14, 1979. collector id: SAD 0910. other id: NSL 182673. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521987 donor id: SAD 0913. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0913. other id: NSL 182674. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521988 donor id: SAD 0914. origin: Malawi. local name: Ndikhwa. collected: April 14, 1979. collector id: SAD 0914. other id: NSL 182675. locality: Farmstore, Nsangwe. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 521989 donor id: SAD 0915. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0915. other id: NSL 182676. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521990 donor id: SAD 0916. origin: Malawi. local name: Ndikhwa. collected: April 14, 1979. collector id: SAD 0916. other id: NSL 182677. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521991 donor id: SAD 0919. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0919. other id: NSL 182678. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521992 donor id: SAD 0920. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0920. other id: NSL 182679. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521993 donor id: SAD 0921. origin: Malawi. local name: Zambia. collected: April 14, 1979. collector id: SAD 0921. other id: NSL 182680. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521994 donor id: SAD 0922A. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0922A. other id: NSL 182681. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521995 donor id: SAD 0923. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0923. other id: NSL 182682. locality: Farmstore, Nsangwe. Cultivated. Seed.
- PI 521996 donor id: SAD 0924. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0924. other id: NSL 182683. locality: Farmstore, Dande. Cultivated. Seed.
- PI 521997 donor id: SAD 0925. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0925. other id: NSL 182684. locality: Farmstore, Dande. Cultivated. Seed.
- PI 521998 donor id: SAD 0926. origin: Malawi. local name: Tengaramanga. collected: April 14, 1979. collector id: SAD 0926. other id: NSL 182685. locality: Farmstore, Dande. Cultivated. Seed.



PI 521858 to 522095-continued

- PI 521999 donor id: SAD 0927. origin: Malawi. local name: Ndikhwa. collected: April 14, 1979. collector id: SAD 0927. other id: NSL 182686. locality: Farmstore, Dande. Cultivated. Seed.
- PI 522000 donor id: SAD 0928. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0928. other id: NSL 182687. locality: Farmstore, Dande. Cultivated. Seed.
- PI 522001 donor id: SAD 0929. origin: Malawi. collected: April 14, 1979. collector id: SAD 0929. other id: NSL 182688. locality: Farmstore, Dande. Cultivated. Seed.
- PI 522002 donor id: SAD 0930. origin: Malawi. local name: Ndikhwa. collected: April 14, 1979. collector id: SAD 0930. other id: NSL 182689. locality: Farmstore, Dande. Cultivated. Seed.
- PI 522003 donor id: SAD 0931. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0931. other id: NSL 182690. locality: Farmstore, Dande. Cultivated. Seed.
- PI 522004 donor id: SAD 0932. origin: Malawi. local name: Misale. collected: April 14, 1979. collector id: SAD 0932. other id: NSL 182691. locality: Farmstore, Dande. Cultivated. Seed.
- PI 522005 donor id: SAD 0933. origin: Malawi. local name: Masotongono. collected: April 14, 1979. collector id: SAD 0933. other id: NSL 182692. locality: Farmstore, Dande. Cultivated. Seed.
- PI 522006 donor id: SAD 0934. origin: Malawi. collected: April 14, 1979. collector id: SAD 0934. other id: NSL 182693. locality: Farmstore, Dande. Cultivated. Seed.
- PI 522007 donor id: SAD 0936. origin: Malawi. collected: April 14, 1979. collector id: SAD 0936. other id: NSL 182694. locality: Farmstore, Ngabu. Wild. Seed.
- PI 522008 donor id: SAD 0937. origin: Malawi. local name: Kashonthe. collected: April 14, 1979. collector id: SAD 0937. other id: NSL 182695. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522009 donor id: SAD 0941. origin: Malawi. local name: Kavalazua. collected: April 16, 1979. collector id: SAD 0941. other id: NSL 182696. locality: Farmstore, Ngabu. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 522010 donor id: SAD 0943. origin: Malawi. local name: Kavalazua. collected: April 16, 1979. collector id: SAD 0943. other id: NSL 182697. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522011 donor id: SAD 0944. origin: Malawi. local name: Kavalazua. collected: April 16, 1979. collector id: SAD 0944. other id: NSL 182698. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522012 donor id: SAD 0945. origin: Malawi. local name: Ndhikwa. collected: April 16, 1979. collector id: SAD 0945. other id: NSL 182699. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522013 donor id: SAD 0946. origin: Malawi. local name: Misale. collected: April 16, 1979. collector id: SAD 0946. other id: NSL 182700. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522014 donor id: SAD 0947. origin: Malawi. local name: Kashonthe. collected: April 16, 1979. collector id: SAD 0947. other id: NSL 182701. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522015 donor id: SAD 0951. origin: Malawi. local name: Misale. collected: April 16, 1979. collector id: SAD 0951. other id: NSL 182702. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522016 donor id: SAD 0952. origin: Malawi. local name: Kavalazua. collected: April 16, 1979. collector id: SAD 0952. other id: NSL 182703. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522017 donor id: SAD 0953. origin: Malawi. local name: Kapeele. collected: April 16, 1979. collector id: SAD 0953. other id: NSL 182704. locality: Farmstore, Maseah. Cultivated. Seed.
- PI 522018 donor id: SAD 0954. origin: Malawi. local name: Shabalala. collected: April 16, 1979. collector id: SAD 0954. other id: NSL 182785. locality: Farmstore, Maseah. Cultivated. Seed.
- PI 522019 donor id: SAD 0955. origin: Malawi. local name: Kavalazua. collected: April 16, 1979. collector id: SAD 0955. other id: NSL 182705. locality: Farmstore, Maseah. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 522020 donor id: SAD 0956. origin: Malawi. local name: Kashonthe. collected: April 16, 1979. collector id: SAD 0956. other id: NSL 182706. locality: Farmstore, Maseah. Cultivated. Seed.
- PI 522021 donor id: SAD 0965. origin: Malawi. local name: Misale. collected: April 16, 1979. collector id: SAD 0965. other id: NSL 182707. locality: Farmstore, Nchale. Cultivated. Seed.
- PI 522022 donor id: SAD 0966. origin: Malawi. local name: Ndikhwa. collected: April 16, 1979. collector id: SAD 0966. other id: NSL 182708. locality: Farmstore, Nchale. Cultivated. Seed.
- PI 522023 donor id: SAD 0967. origin: Malawi. local name: Kavalazua. collected: April 16, 1979. collector id: SAD 0967. other id: NSL 182709. locality: Farmstore, Nchale. Cultivated. Seed.
- PI 522024 donor id: SAD 0969. origin: Malawi. local name: Kashonthe. collected: April 16, 1979. collector id: SAD 0969. other id: NSL 182710. locality: Farmstore, Nchale. Cultivated. Seed.
- PI 522025 donor id: SAD 0970. origin: Malawi. local name: Misale. collected: April 16, 1979. collector id: SAD 0970. other id: NSL 182711. locality: Farmstore, Nchale. Cultivated. Seed.
- PI 522026 donor id: SAD 0971. origin: Malawi. local name: Kavalazua. collected: April 16, 1979. collector id: SAD 0971. other id: NSL 182712. locality: Farmstore, Nchale. Cultivated. Seed.
- PI 522027 donor id: SAD 0972. origin: Malawi. local name: Ndikhwa. collected: April 16, 1979. collector id: SAD 0972. other id: NSL 182713. locality: Farmstore, Nchale. Cultivated. Seed.
- PI 522028 donor id: SAD 0974. origin: Malawi. local name: Tengaramanga. collected: April 16, 1979. collector id: SAD 0974. other id: NSL 182714. locality: Farmstore, Nyanphota. Cultivated. Seed.
- PI 522029 donor id: SAD 0975. origin: Malawi. local name: Kashonthe. collected: April 16, 1979. collector id: SAD 0975. other id: NSL 182715. locality: Farmstore, Nyanphota. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 522030 donor id: SAD 0976. origin: Malawi. local name: Ndikhwa. collected: April 16, 1979. collector id: SAD 0976. other id: NSL 182716. locality: Farmstore, Nyanphota. Cultivated. Seed.
- PI 522031 donor id: SAD 0977. origin: Malawi. local name: Ndikhwa. collected: April 16, 1979. collector id: SAD 0977. other id: NSL 182717. locality: Farmstore, Nyanphota. Cultivated. Seed.
- PI 522032 donor id: SAD 0978. origin: Malawi. local name: Kashonthe. collected: April 16, 1979. collector id: SAD 0978. other id: NSL 182718. locality: Farmstore, Nyanphota. Cultivated. Seed.
- PI 522033 donor id: SAD 0981. origin: Malawi. local name: Ndikhwa. collected: April 16, 1979. collector id: SAD 0981. other id: NSL 182719. locality: Farmstore, Makaronga. Cultivated. Seed.
- PI 522034 donor id: SAD 0982. origin: Malawi. local name: Kashonthe. collected: April 16, 1979. collector id: SAD 0982. other id: NSL 182720. locality: Farmstore, Makaronga. Cultivated. Seed.
- PI 522035 donor id: SAD 0983. origin: Malawi. local name: Misale. collected: April 16, 1979. collector id: SAD 0983. other id: NSL 182721. locality: Farmstore, Makaronga. Cultivated. Seed.
- PI 522036 donor id: SAD 0984. origin: Malawi. local name: Kavalazua. collected: April 16, 1979. collector id: SAD 0984. other id: NSL 182722. locality: Farmstore, Makaronga. Cultivated. Seed.
- PI 522037 donor id: SAD 0985. origin: Malawi. local name: Kavalazua. collected: April 16, 1979. collector id: SAD 0985. other id: NSL 182723. locality: Farmstore, Makaronga. Cultivated. Seed.
- PI 522038 donor id: SAD 0987. origin: Malawi. collected: April 16, 1979. collector id: SAD 0987. other id: NSL 182724. locality: Farmstore, Makaronga. Cultivated. Seed.
- PI 522039 donor id: SAD 0988. origin: Malawi. local name: Tengaramanga. collected: April 16, 1979. collector id: SAD 0988. other id: NSL 182725. locality: Farmstore, Makaronga. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 522040 donor id: SAD 0989. origin: Malawi. local name: Zambia.  
collected: April 16, 1979. collector id: SAD 0989.  
other id: NSL 182726. locality: Farmstore, Makaronga.  
Cultivated. Seed.
- PI 522041 donor id: SAD 0994. origin: Malawi. local name:  
Kashonthe. collected: April 16, 1979. collector id: SAD  
0994. other id: NSL 182727. locality: Farmstore,  
Makaronga. Cultivated. Seed.
- PI 522042 donor id: SAD 0997. origin: Malawi. local name:  
Ndikhwa. collected: April 16, 1979. collector id: SAD  
0997. other id: NSL 182728. locality: Farmstore,  
Makaronga. Cultivated. Seed.
- PI 522043 donor id: SAD 0998. origin: Malawi. local name:  
Ndikhwa. collected: April 16, 1979. collector id: SAD  
0998. other id: NSL 182729. locality: Farmstore, Ntowe.  
Cultivated. Seed.
- PI 522044 donor id: SAD 0999. origin: Malawi. local name:  
Kashonthe. collected: April 16, 1979. collector id: SAD  
0999. other id: NSL 182730. locality: Farmstore, Ntowe.  
Cultivated. Seed.
- PI 522045 donor id: SAD 1001. origin: Malawi. local name:  
Kashonthe. collected: April 16, 1979. collector id: SAD  
1001. other id: NSL 182731. locality: Farmstore, Ntowe.  
Cultivated. Seed.
- PI 522046 donor id: SAD 1002. origin: Malawi. local name:  
Kavalazua. collected: April 16, 1979. collector id: SAD  
1002. other id: NSL 182732. locality: Farmstore, Ntowe.  
Cultivated. Seed.
- PI 522047 donor id: SAD 1005. origin: Malawi. local name:  
Tengaramanga. collected: April 16, 1979. collector id:  
SAD 1005. other id: NSL 182733. locality: Farmstore,  
Ntowe. Cultivated. Seed.
- PI 522048 donor id: SAD 1006. origin: Malawi. local name:  
Ndikhwa. collected: April 16, 1979. collector id: SAD  
1006. other id: NSL 182734. locality: Farmstore, Ntowe.  
Cultivated. Seed.
- PI 522049 donor id: SAD 1007. origin: Malawi. local name: Misale.  
collected: April 16, 1979. collector id: SAD 1007.  
other id: NSL 182735. locality: Farmstore, Ntowe.  
Cultivated. Seed.

PI 521858 to 522095-continued

- PI 522050 donor id: SAD 1008. origin: Malawi. collected: April 16, 1979. collector id: SAD 1008. other id: NSL 182736. locality: Farmstore, Ntowe. Cultivated. Seed.
- PI 522051 donor id: SAD 1011. origin: Malawi. local name: Kashonthe. collected: April 16, 1979. collector id: SAD 1011. other id: NSL 182737. locality: Farmstore, Ntowe. Cultivated. Seed.
- PI 522052 donor id: SAD 1012. origin: Malawi. local name: Tengaramanga. collected: April 16, 1979. collector id: SAD 1012. other id: NSL 182738. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522053 donor id: SAD 1013. origin: Malawi. local name: Ndikhwa. collected: April 16, 1979. collector id: SAD 1013. other id: NSL 182739. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522054 donor id: SAD 1014. origin: Malawi. local name: Ndikhwa. collected: April 16, 1979. collector id: SAD 1014. other id: NSL 182740. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522055 donor id: SAD 1016. origin: Malawi. local name: Tengaramanga. collected: April 16, 1979. collector id: SAD 1016. other id: NSL 182741. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522056 donor id: SAD 1017A. origin: Malawi. collected: April 16, 1979. collector id: SAD 1017A. other id: NSL 182742. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522057 donor id: SAD 1020. origin: Malawi. local name: Ndikhwa. collected: April 16, 1979. collector id: SAD 1020. other id: NSL 182743. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522058 donor id: SAD 1021. origin: Malawi. local name: Masotongono. collected: April 17, 1979. collector id: SAD 1021. other id: NSL 182744. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522059 donor id: SAD 1022. origin: Malawi. local name: Wayawayaya. collected: April 17, 1979. collector id: SAD 1022. other id: NSL 182745. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522060 donor id: SAD 1023. origin: Malawi. local name: Misale. collected: April 17, 1979. collector id: SAD 1023. other id: NSL 182746. locality: Farmstore, Ngabu. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 522061 donor id: SAD 1024. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1024. other id: NSL 182747. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522062 donor id: SAD 1025. origin: Malawi. local name: Kashonthe. collected: April 17, 1979. collector id: SAD 1025. other id: NSL 182748. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522063 donor id: SAD 1026. origin: Malawi. local name: Ndikhwa. collected: April 17, 1979. collector id: SAD 1026. other id: NSL 182749. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522064 donor id: SAD 1027. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1027. other id: NSL 182750. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522065 donor id: SAD 1028. origin: Malawi. local name: Masotongono. collected: April 17, 1979. collector id: SAD 1028. other id: NSL 182751. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522066 donor id: SAD 1029. origin: Malawi. local name: Kashonthe. collected: April 17, 1979. collector id: SAD 1029. other id: NSL 182752. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522067 donor id: SAD 1030. origin: Malawi. collected: April 17, 1979. collector id: SAD 1030. other id: NSL 182753. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522068 donor id: SAD 1031. origin: Malawi. local name: Ndikhwa. collected: April 17, 1979. collector id: SAD 1031. other id: NSL 182754. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522069 donor id: SAD 1032. origin: Malawi. local name: Misale. collected: April 17, 1979. collector id: SAD 1032. other id: NSL 182755. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522070 donor id: SAD 1033. origin: Malawi. local name: Misale. collected: April 17, 1979. collector id: SAD 1033. other id: NSL 182756. locality: Farmstore, Ngabu. Cultivated. Seed.

PI 521858 to 522095-continued

- PI 522071 donor id: SAD 1044. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1044. other id: NSL 182758. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522072 donor id: SAD 1045. origin: Malawi. local name: Ndikhwa. collected: April 17, 1979. collector id: SAD 1045. other id: NSL 182759. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522073 donor id: SAD 1046. origin: Malawi. local name: Kashonthe. collected: April 17, 1979. collector id: SAD 1046. other id: NSL 182760. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522074 donor id: SAD 1047. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1047. other id: NSL 182761. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522075 donor id: SAD 1048. origin: Malawi. local name: Kashonthe. collected: April 17, 1979. collector id: SAD 1048. other id: NSL 182762. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522076 donor id: SAD 1056. origin: Malawi. collected: April 17, 1979. collector id: SAD 1056. other id: NSL 182763. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522077 donor id: SAD 1057. origin: Malawi. local name: Misale. collected: April 17, 1979. collector id: SAD 1057. other id: NSL 182764. locality: Farmstore, Ngabu. Cultivated. Seed.
- PI 522078 donor id: SAD 1060. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1060. other id: NSL 182765. locality: Farmstore, Nyamula. Cultivated. Seed.
- PI 522079 donor id: SAD 1064. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1064. other id: NSL 182766. locality: Farmstore, Nyamula. Cultivated. Seed.
- PI 522080 donor id: SAD 1071. origin: Malawi. local name: Ndikhwa. collected: April 17, 1979. collector id: SAD 1071. other id: NSL 182767. locality: Farmstore, Nyamula. Cultivated. Seed.



PI 521858 to 522095-continued

- PI 522081 donor id: SAD 1072. origin: Malawi. local name: Ndikhwa. collected: April 17, 1979. collector id: SAD 1072. other id: NSL 182768. locality: Farmstore, Nyamula. Cultivated. Seed.
- PI 522082 donor id: SAD 1073. origin: Malawi. local name: Ndikhwa. collected: April 17, 1979. collector id: SAD 1073. other id: NSL 182769. locality: Farmstore, Nyamula. Cultivated. Seed.
- PI 522083 donor id: SAD 1075. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1075. other id: NSL 182770. locality: Farmstore, Nyamula. Cultivated. Seed.
- PI 522084 donor id: SAD 1076. origin: Malawi. local name: Masotongono. collected: April 17, 1979. collector id: SAD 1076. other id: NSL 182771. locality: Farmstore, Nsanje. Cultivated. Seed.
- PI 522085 donor id: SAD 1078. origin: Malawi. local name: Misale. collected: April 17, 1979. collector id: SAD 1078. other id: NSL 182772. locality: Farmstore, Chirorno. Cultivated. Seed.
- PI 522086 donor id: SAD 1079. origin: Malawi. local name: Ndikhwa. collected: April 17, 1979. collector id: SAD 1079. other id: NSL 182773. locality: Farmstore, Chirorno. Cultivated. Seed.
- PI 522087 donor id: SAD 1083. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1083. other id: NSL 182774. locality: Farmstore, Makhango. Cultivated. Seed.
- PI 522088 donor id: SAD 1085. origin: Malawi. local name: Kashonthe. collected: April 17, 1979. collector id: SAD 1085. other id: NSL 182775. locality: Farmstore, Makhango. Cultivated. Seed.
- PI 522089 donor id: SAD 1088. origin: Malawi. local name: Zambia. collected: April 17, 1979. collector id: SAD 1088. other id: NSL 182776. locality: Farmstore, Makhango. Cultivated. Seed.
- PI 522090 donor id: SAD 1089. origin: Malawi. collected: April 17, 1979. collector id: SAD 1089. other id: NSL 182777. locality: Farmstore, Chitseko. Wild. Seed.

PI 521858 to 522095-continued

- PI 522091 donor id: SAD 1094. origin: Malawi. local name: Kashonthe. collected: April 17, 1979. collector id: SAD 1094. other id: NSL 182778. locality: Farmstore, Chiromo. Cultivated. Seed.
- PI 522092 donor id: SAD 1095. origin: Malawi. local name: Zambia. collected: April 17, 1979. collector id: SAD 1095. other id: NSL 182779. locality: Farmstore, Chiromo. Cultivated. Seed.
- PI 522093 donor id: SAD 1096. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1096. other id: NSL 182780. locality: Farmstore, Chiromo. Cultivated. Seed.
- PI 522094 donor id: SAD 1105. origin: Malawi. local name: Tengaramanga. collected: April 17, 1979. collector id: SAD 1105. other id: NSL 182781. locality: Farmstore, Bargulam. Cultivated. Seed.
- PI 522095 donor id: SAD 1106. origin: Malawi. local name: Kashonthe. collected: April 17, 1979. collector id: SAD 1106. other id: NSL 182782. locality: Farmstore, Bargulam. Cultivated. Seed.

PI 522096 to 522161. Sorghum sp. POACEAE

Donated by: Plant Genetic Resources Unit, ICRISAT, Patancheru P.O., Andhra Pradesh, India. remarks: Received through IBPGR, Rome Italy. Received April 21, 1981.

- PI 522096 donor id: RC 002. origin: Gambia. local name: Kinto Koyo. collected: November 07, 1980. collector id: RC 002. other id: NSL 117777. locality: Field, Mane Kunda village, Urd Province. remarks: Seeds white, medium duration. Wild. Seed.
- PI 522097 donor id: RC 003. origin: Gambia. local name: Kajabo. collected: November 07, 1980. collector id: RC 003. other id: NSL 117778. locality: Field, Mane Kunda village, Urd Province. remarks: Late maturing type. Wild. Seed.
- PI 522098 donor id: RC 005. origin: Gambia. local name: Kinto Koyo. collected: November 07, 1980. collector id: RC 005. other id: NSL 117779. locality: Field, Jerioba Kunda village, Urd Province. Wild. Seed.

PI 522096 to 522161-continued

- PI 522099 donor id: RC 006. origin: Gambia. local name: Samba Sajo. collected: November 07, 1980. collector id: RC 006. other id: NSL 117780. locality: Store, Koina village, Urd Province. remarks: Late maturing type. Wild. Seed.
- PI 522100 donor id: RC 007. origin: Gambia. local name: Samba Jabo. collected: November 07, 1980. collector id: RC 007. other id: NSL 117781. locality: Field, Koina village, Urd Province. remarks: Early maturing type. Wild. Seed.
- PI 522101 donor id: RC 008. origin: Gambia. local name: Madian Gunaj. collected: November 07, 1980. collector id: RC 008. other id: NSL 117782. locality: Store, Koina village, Urd Province. remarks: Medium maturing type. Wild. Seed.
- PI 522102 donor id: RC 014. origin: Gambia. local name: Mobal. collected: November 07, 1980. collector id: RC 014. other id: NSL 117783. locality: Field, Mangakag Kunda village, Urd Province. remarks: Early maturing type. Aphids present. Wild. Seed.
- PI 522103 donor id: RC 015. origin: Gambia. local name: Mbyeri Bompara. collected: November 07, 1980. collector id: RC 015. other id: NSL 117784. locality: Store, Mangakag Kunda village, Urd Province. remarks: Early maturing type. Wild. Seed.
- PI 522104 donor id: RC 016. origin: Gambia. local name: Samba Jabo. collected: November 07, 1980. collector id: RC 016. other id: NSL 117785. locality: Store, Mangakag Kunda village, Urd Province. remarks: Early maturing type. Wild. Seed.
- PI 522105 donor id: RC 018. origin: Gambia. local name: Nyani Ko. collected: November 08, 1980. collector id: RC 018. other id: NSL 117786. locality: Field, Samba Kabude village, Urd Province. remarks: Seeds bold, white. Wild. Seed.
- PI 522106 donor id: RC 020. origin: Gambia. local name: Bassi Ba. collected: November 08, 1980. collector id: RC 020. other id: NSL 117787. locality: Field, Ja Kunda village, Urd Province. remarks: Seeds bold, pearly. Wild. Seed.
- PI 522107 donor id: RC 021. origin: Gambia. local name: Nyani Ko, Burama gawlo. collected: November 08, 1980. collector id: RC 021. other id: NSL 117788. locality: Field, Ja Kunda village, Urd Province. Wild. Seed.

PI 522096 to 522161-continued

- PI 522108 donor id: RC 022. origin: Gambia. local name: Mangea Nyo. collected: November 08, 1980. collector id: RC 022. other id: NSL 117789. locality: Store, Gambissara village, Urd Province. Wild. Seed.
- PI 522109 donor id: RC 023. origin: Gambia. local name: Mbayeri. collected: November 08, 1980. collector id: RC 023. other id: NSL 117790. locality: Store, Gambissara village, Urd Province. remarks: Early maturity type. Wild. Seed.
- PI 522110 donor id: RC 024. origin: Gambia. local name: Tesito. collected: November 08, 1980. collector id: RC 024. other id: NSL 117791. locality: Field, Allungharre village, Urd Province. Wild. Seed.
- PI 522111 donor id: RC 025. origin: Gambia. collected: November 08, 1980. collector id: RC 025. other id: NSL 117792. locality: Field, Allungharre village, Urd Province. Wild. Seed.
- PI 522112 donor id: RC 027. origin: Gambia. local name: Bassi Dokel. collected: November 09, 1980. collector id: RC 027. other id: NSL 117793. locality: Field, Bubu Tabanding village, Mac Carthy Island Division. remarks: Head compact. Wild. Seed.
- PI 522113 donor id: RC 028. origin: Gambia. local name: Dobo Nyo. collected: November 09, 1980. collector id: RC 028. other id: NSL 117794. locality: Field, Bubu Tabanding village, Mac Carthy Island Division. Wild. Seed.
- PI 522114 donor id: RC 029. origin: Gambia. local name: Changai. collected: November 09, 1980. collector id: RC 029. other id: NSL 117795. locality: Institute, Pollol village, Mac Carthy Island Division. Wild. Seed.
- PI 522115 donor id: RC 030. origin: Gambia. local name: Dobo Nyo. collected: November 09, 1980. collector id: RC 030. other id: NSL 117796. locality: Institute, Karantaba village, Mac Carthy Island Division. Wild. Seed.
- PI 522116 donor id: RC 031. origin: Gambia. local name: Bassi Buko. collected: November 09, 1980. collector id: RC 031. other id: NSL 117797. locality: Institute, Serengai village, Mac Carthy Island Division. Wild. Seed.

PI 522096 to 522161-continued

- PI 522117 donor id: RC 032. origin: Gambia. local name: Changai. collected: November 09, 1980. collector id: RC 032. other id: NSL 117798. locality: Institute, Pallol village, Mac Carthy Island Division. remarks: Glumes red. Wild. Seed.
- PI 522118 donor id: RC 033. origin: Gambia. local name: Basso. collected: November 09, 1980. collector id: RC 033. other id: NSL 117799. locality: Institute, Karanta Ba village, Mac Carthy Island Division. Wild. Seed.
- PI 522119 donor id: RC 035. origin: Gambia. local name: Nyani Kinto. collected: November 09, 1980. collector id: RC 035. other id: NSL 117800. locality: Institute, Kass Hassumnyang village, Mac Carthy Island Division. Wild. Seed.
- PI 522120 donor id: RC 036. origin: Gambia. local name: Bisseyo. collected: November 10, 1980. collector id: RC 036. other id: NSL 117801. locality: Field, Brinkama Ba village, Mac Carthy Island Division. Wild. Seed.
- PI 522121 donor id: RC 037. origin: Gambia. local name: Wendeh. collected: November 10, 1980. collector id: RC 037. other id: NSL 117802. locality: Field, Daru Salam village, Mac Carthy Island Division. remarks: Early maturity type. Glumes red. Wild. Seed.
- PI 522122 donor id: RC 038. origin: Gambia. local name: Wendeh. collected: November 10, 1980. collector id: RC 038. other id: NSL 117803. locality: Field, Daru Salam village, Mac Carthy Island Division. remarks: Glumes black. Wild. Seed.
- PI 522123 donor id: RC 039. origin: Gambia. local name: Wendeh. collected: November 10, 1980. collector id: RC 039. other id: NSL 117804. locality: Field, Daru Salam village, Mac Carthy Island Division. remarks: Glumes light red. Wild. Seed.
- PI 522124 donor id: RC 041. origin: Gambia. local name: Ditin. collected: November 10, 1980. collector id: RC 041. other id: NSL 117805. locality: Field, Daru Salam village, Mac Carthy Island Division. remarks: Medium maturity type. Wild. Seed.
- PI 522125 donor id: RC 042. origin: Gambia. local name: Hafijega. collected: November 10, 1980. collector id: RC 042. other id: NSL 117806. locality: Field, Daru Salam village, Mac Carthy Island Division. remarks: Early maturing type. Wild. Seed.

PI 522096 to 522161-continued

- PI 522126 donor id: RC 043. origin: Gambia. local name: Turka. collected: November 10, 1980. collector id: RC 043. other id: NSL 117807. locality: Field, Daru Salam village, Mac Carthy Island Division. remarks: Medium maturing type. Wild. Seed.
- PI 522127 donor id: RC 045. origin: Gambia. local name: Shew Fenyo. collected: November 10, 1980. collector id: RC 045. other id: NSL 117808. locality: Field, Kumbanye village, Mac Carthy Island Division. Wild. Seed.
- PI 522128 donor id: RC 046. origin: Gambia. local name: Turka. collected: November 10, 1980. collector id: RC 046. other id: NSL 117809. locality: Field, Kumbanye village, Mac Carthy Island Division. Wild. Seed.
- PI 522129 donor id: RC 049. origin: Gambia. local name: Kinte Wuleng. collected: November 10, 1980. collector id: RC 049. other id: NSL 117810. locality: Field, Naniko village, Mac Carthy Island Division. remarks: Early maturing type. Wild. Seed.
- PI 522130 donor id: RC 050. origin: Gambia. local name: Nyani Ko. collected: November 10, 1980. collector id: RC 050. other id: NSL 117811. locality: Field, Karantaba (Jarra) village, Mac Carthy Island Division. Wild. Seed.
- PI 522131 donor id: RC 051. origin: Gambia. local name: Nyani Ko. collected: November 11, 1980. collector id: RC 051. other id: NSL 117812. locality: Field, Koli Kunda village, Mac Carthy Island Division. Wild. Seed.
- PI 522132 donor id: RC 052. origin: Gambia. local name: Basso. collected: November 11, 1980. collector id: RC 051. other id: NSL 117813. locality: Field, Koli Kunda village, Mac Carthy Island Division. Wild. Seed.
- PI 522133 donor id: RC 053. origin: Gambia. local name: Bassi. collected: November 11, 1980. collector id: RC 053. other id: NSL 117814. locality: Field, Koli Kunda village, Mac Carthy Island Division. Wild. Seed.
- PI 522134 donor id: RC 054. origin: Gambia. local name: Bassi. collected: November 11, 1980. collector id: RC 054. other id: NSL 117815. locality: Field, Koli Kunda village, Mac Carthy Island Division. remarks: Seeds bold, white. Wild. Seed.

PI 522096 to 522161-continued

- PI 522135 donor id: RC 056. origin: Gambia. local name: Fela. collected: November 11, 1980. collector id: RC 056. other id: NSL 117816. locality: Field, Dingarai village, Mac Carthy Island Division. remarks: Glumes red. Wild. Seed.
- PI 522136 donor id: RC 057. origin: Gambia. local name: Bassi. collected: November 11, 1980. collector id: RC 057. other id: NSL 117817. locality: Field, N'Jau village, Mac Carthy Island Division. remarks: Glumes red. Wild. Seed.
- PI 522137 donor id: RC 058. origin: Gambia. local name: Bassi. collected: November 11, 1980. collector id: RC 058. other id: NSL 117818. locality: Field, N'Jau village, Mac Carthy Island Division. remarks: Glumes black. Wild. Seed.
- PI 522138 donor id: RC 060. origin: Gambia. local name: Shew Fenyo. collected: November 11, 1980. collector id: RC 060. other id: NSL 117819. locality: Field, Kauri Janneh Kunda village, Mac Carthy Island Division. remarks: Glumes narrow, shattering. Wild. Seed.
- PI 522139 donor id: RC 061. origin: Gambia. local name: Yachay. collected: November 11, 1980. collector id: RC 061. other id: NSL 117820. locality: Field, Diba Kunda village, Mac Carthy Island Division. Wild. Seed.
- PI 522140 donor id: RC 062. origin: Gambia. local name: Bambara Basso. collected: November 11, 1980. collector id: RC 062. other id: NSL 117821. locality: Field, Charmen village, North Bank Division. Wild. Seed.
- PI 522141 donor id: RC 065. origin: Gambia. local name: Turka. collected: November 11, 1980. collector id: RC 065. other id: NSL 117822. locality: Field, Dobo (Kerra Bangaya) village, North Bank Division. Wild. Seed.
- PI 522142 donor id: RC 066. origin: Gambia. local name: Kaba. collected: November 11, 1980. collector id: RC 066. other id: NSL 117823. locality: Field, Dobo (Kerrabangaya) village, North Bank Division. Wild. Seed.
- PI 522143 donor id: RC 068. origin: Gambia. local name: Drama Fenyo. collected: November 12, 1980. collector id: RC 068. other id: NSL 117824. locality: Field, Sikunda village, Lower River Division. Wild. Seed.

PI 522096 to 522161-continued

- PI 522144 donor id: RC 070. origin: Gambia. local name: Wendeh. collected: November 12, 1980. collector id: RC 070. other id: NSL 117825. locality: Field, Madina (Kiyang) village, Lower River Division. remarks: Glumes black. Wild. Seed.
- PI 522145 donor id: RC 071. origin: Gambia. local name: Sarai. collected: November 12, 1980. collector id: RC 071. other id: NSL 117826. locality: Store, Madina (Kiyang) village, Lower River Division. remarks: Seeds bold, pearly. Originally from Senegal. Wild. Seed.
- PI 522146 donor id: RC 072. origin: Gambia. local name: Sarai. collected: November 12, 1980. collector id: RC 072. other id: NSL 117827. locality: Store, Madina (Kiyang) village, Lower River Division. Wild. Seed.
- PI 522147 donor id: RC 073. origin: Gambia. local name: Wendeh. collected: November 12, 1980. collector id: RC 073. other id: NSL 117828. locality: Store, Madina (Kiyang) village, Lower River Division. remarks: Glumes red. Wild. Seed.
- PI 522148 donor id: RC 074. origin: Gambia. local name: Drama Fenyo. collected: November 12, 1980. collector id: RC 074. other id: NSL 117829. locality: Field, Sankandi village, Lower River Division. Wild. Seed.
- PI 522149 donor id: RC 075. origin: Gambia. local name: Kunku Nyang. collected: November 12, 1980. collector id: RC 075. other id: NSL 117830. locality: Field, Sankandi village, Lower River Division. Wild. Seed.
- PI 522150 donor id: RC 077. origin: Gambia. local name: Donkontong Wuleng. collected: November 12, 1980. collector id: RC 077. other id: NSL 117831. locality: Field, Bajana village, Lower River Division. Wild. Seed.
- PI 522151 donor id: RC 079. origin: Gambia. local name: Sankandi Kinto. collected: November 12, 1980. collector id: RC 079. other id: NSL 117832. locality: Field, Bajana village, Lower River Division. Wild. Seed.
- PI 522152 donor id: RC 080. origin: Gambia. local name: Donkontong Koyo. collected: November 12, 1980. collector id: RC 080. other id: NSL 117833. locality: Field, Bajana village, Lower River Division. Wild. Seed.



PI 522096 to 522161-continued

- PI 522153 donor id: RC 081. origin: Gambia. local name: Wendeh. collected: November 12, 1980. collector id: RC 081. other id: NSL 117834. locality: Field, Bwiam village, Western Division. Wild. Seed.
- PI 522154 donor id: RC 082. origin: Gambia. local name: Kinte Wuleng. collected: November 12, 1980. collector id: RC 082. other id: NSL 117835. locality: Field, Bwiam village, Western Division. remarks: Very early maturing type. Wild. Seed.
- PI 522155 donor id: RC 084. origin: Gambia. local name: Kinte Koyo. collected: November 12, 1980. collector id: RC 084. other id: NSL 117836. locality: Field, Jibanack village, Western Division. Wild. Seed.
- PI 522156 donor id: RC 085. origin: Gambia. local name: Kinte Koyo. collected: November 12, 1980. collector id: RC 085. other id: NSL 117837. locality: Field, Jibanack village, Western Division. remarks: Glumes purple. Wild. Seed.
- PI 522157 donor id: RC 087. origin: Gambia. local name: Kinte Koyo. collected: November 13, 1980. collector id: RC 087. other id: NSL 117838. locality: Threshing floor, Somita village, Western Division. Wild. Seed.
- PI 522158 donor id: RC 089. origin: Gambia. local name: Kinte Wuleng. collected: November 13, 1980. collector id: RC 089. other id: NSL 117839. locality: Field, Somita village, Western Division. Wild. Seed.
- PI 522159 donor id: RC 090. origin: Gambia. local name: Kinte Koyo. collected: November 13, 1980. collector id: RC 090. other id: NSL 117840. locality: Field, Pirang village, Western Division. remarks: Glumes black. Wild. Seed.
- PI 522160 donor id: RC 092. origin: Gambia. local name: Bachara. collected: November 13, 1980. collector id: RC 092. other id: NSL 117841. locality: Field, Albreda village, North Bank Division. Wild. Seed.
- PI 522161 donor id: RC 093. origin: Gambia. local name: Sukur Kalo. collected: November 13, 1980. collector id: RC 093. other id: NSL 117842. locality: Store, Gunjur village, Western Division. remarks: Sweet stalk. Wild. Seed.

PI 522162 to 522164. *Hordeum vulgare* L. POACEAE Barley

**Donated by:** Poehlman, J.M., Dept. of Agronomy, University of Missouri, 205 Curtis Hall, Columbia, Missouri, United States. Received July 13, 1988.

PI 522162 **donor id:** MO B3565. **origin:** United States. **pedigree:** Perry/C114088. **other id:** 86 ST 5578. **disease resistance:** High to Barley Yellow Dwarf Virus. Winter Annual. Cultivated. Seed.

PI 522163 **donor id:** MO B3568. **origin:** United States. **pedigree:** Perry/C114088. **other id:** 86 ST 5579. **disease resistance:** High to Barley Yellow Dwarf Virus. Winter Annual. Cultivated. Seed.

PI 522164 **donor id:** MO B3583. **origin:** United States. **pedigree:** Harrison/C114088. **other id:** 86 ST 5581. **disease resistance:** High to Barley Yellow Dwarf Virus. Winter Annual. Cultivated. Seed.

PI 522165 to 522172. *Allium cepa* L. LILIACEAE Onion

**Donated by:** Miyaura, K., Kitami Agricultural Experiment Station, Kunneppu-Cho, Tokoro-gun, Hokkaido, Japan. Received June 21, 1988.

PI 522165 **origin:** Japan. **cultivar:** KITAMI KI. **pedigree:** Selection from Sapporo Ki. **remarks:** Early long day, open-pollinated type. Cultivar. Seed.

PI 522166 **origin:** Japan. **cultivar:** OKHOTZK. **remarks:** Early medium type. Bolting resistant. Cultivar. Seed.

PI 522167 **origin:** Japan. **cultivar:** KITAMOMIJI. **remarks:** Slightly late long day type. Keeping quality good. Cultivar. Seed.

PI 522168 **origin:** Japan. **cultivar:** HIGUMA. **remarks:** Medium long day type. Jumbo size. Cultivar. Seed.

PI 522169 **origin:** Japan. **cultivar:** SEKIHOKU. **remarks:** Slightly late long day type. Keeping quality good. Improved by Kitami Agr. Exp. Station. Cultivar. Seed.

PI 522170 **origin:** Japan. **cultivar:** SAPPORO KI(KT). **remarks:** Slightly early long day, open-pollinated type. Local strain in Takikawa in central region of Hokkaido. Cultivar. Seed.

PI 522171 **origin:** Japan. **cultivar:** SAPPORO KI(KR). **remarks:** Late long day, open-pollinated type. Yield good. Local strain in Sapporo. Cultivar. Seed.

PI 522165 to 522172-continued

PI 522172 **origin:** Japan. **cultivar:** SAPPORO KI(H). **remarks:** Medium long day, open-pollinated type. Local strain in Sapporo. Cultivar. Seed.

PI 522173 to 522178. *Daucus carota* L. APIACEAE Carrot

**Donated by:** Miyaura, K., Kitami Agricultural Experiment Station, Kunneppu-Cho, Tokoro-gun, Hokkaido, Japan. Received June 21, 1988.

PI 522173 **origin:** Japan. **cultivar:** BENIFUKU FUYUGOSI 5 SUN. Cultivar. Seed.

PI 522174 **origin:** Japan. **cultivar:** BENIFUKU 4 SUN. Cultivar. Seed.

PI 522175 **origin:** Japan. **cultivar:** BENIFUKU 625. Cultivar. Seed.

PI 522176 **origin:** Japan. **cultivar:** BENIFUKU HARUMAKI 5 SUN. Cultivar. Seed.

PI 522177 **origin:** Japan. **cultivar:** KYOKUJITU 5 SUN. Cultivar. Seed.

PI 522178 **origin:** Japan. **cultivar:** KYOKUJITU 5 SUN 2 GOU. Cultivar. Seed.

PI 522179 to 522184. *Glycine soja* Siebold & Zucc. FABACEAE Wild soybean

**Donated by:** Shao, Qiquan, Institute of Genetics, Academia Sinica, Beijing, Peoples Repub. of China. Received July 11, 1988.

PI 522179 **donor id:** ZYD 60. **origin:** China, Peoples Repub of. **locality:** Aihui, Heilongjiang Province. **remarks:** Flowers violet. Pubescence brown. Seeds black with yellow cotyledons, 2.18g/100. Protein 45.2%. Oil 8.66%. Annual. Wild. Seed.

PI 522180 **donor id:** ZYD 68. **origin:** China, Peoples Repub of. **locality:** Xunke, Heilongjiang Province. **remarks:** Flowers violet. Pubescence brown. Seeds black with yellow cotyledons, 1.28g/100. Protein 43.20%. Oil 8.38%. Annual. Wild. Seed.

PI 522181 **donor id:** ZYD 145. **origin:** China, Peoples Repub of. **locality:** Bei'an, Heilongjiang Province. **remarks:** Flowers violet. Pubescence brown. Seeds black with yellow cotyledons, 1.50g/100. Protein 46.29%. Oil 7.37%. Annual. Wild. Seed.

PI 522179 to 522184-continued

PI 522182 **donor id:** ZYD 253. **origin:** China, Peoples Repub of.  
**locality:** Yaohe, Heilongjiang Province. **remarks:** Flowers  
violet. Pubescence brown. Seeds black with yellow  
cotyledons, 1.50g/100. Protein 48.36%. Oil 6.63%.  
Annual. Wild. Seed.

PI 522183 **donor id:** ZYD 403. **origin:** China, Peoples Repub of.  
**locality:** Shuihua, Heilongjiang Province. **remarks:**  
Flowers violet. Pubescence brown. Seeds black with yellow  
cotyledons, 1.60g/100. Protein 52.08%. Oil 8.25%.  
Annual. Wild. Seed.

PI 522184 **donor id:** ZYD 512. **origin:** China, Peoples Repub of.  
**locality:** Binxian, Heilongjiang Province. **remarks:**  
Flowers violet. Pubescence brown. Seeds black with yellow  
cotyledons, 1.70g/100. Protein 46.74%. Oil 7.46%.  
Annual. Wild. Seed.

PI 522185. *Secale cereale* L. POACEAE Rye

**Donated by:** Spilde, L.A., Dept. of Agronomy, North Dakota State  
University, State University Station Box 5051, Fargo, North Dakota,  
United States. Received August 16, 1988.

**origin:** United States. **cultivar:** DACOLD. **pedigree:**  
Unknown-mass selection. **remarks:** Plants mid-tall,  
strong, white. Leaves blue-green. Spikes awned, parallel,  
middense, slightly curved. Glumes glabrous, white, long,  
wide. Kernels blue-green, large. Yield high. Test weight  
below average. Maturity late. Adapted to winter rye  
growing area of the upper midwest. Susceptible to leaf  
and stem rusts. Winter Annual. Cultivar. Seed.

PI 522186 to 522192. *Glycine max* (L.) Merr. FABACEAE Soybean

**Donated by:** Vitkovsky, V., VIR, Leningrad, Soviet Union. Received  
August 04, 1988.

PI 522186 **donor id:** VIR 9166. **origin:** Soviet Union. **cultivar:**  
ARKADIA ODESSAJA. **pedigree:** Chemically-induced mutant  
from VNIIMK 9186. **locality:** Ukrainian SSR. Cultivar.  
Seed.

PI 522187 **donor id:** VIR 6909. **origin:** Soviet Union. **cultivar:**  
KRASNOGRADSKAJA 1. **locality:** Ukrainian SSR. Cultivar.  
Seed.

PI 522188 **donor id:** VIR 7350. **origin:** Soviet Union. **cultivar:**  
VNIIMK 3985. **pedigree:** VNIISK 7/Kormovaja 1//Record  
North. **locality:** Krasnodar. Cultivar. Seed.

PI 522186 to 522192-continued

- PI 522189 **donor id:** VIR 9170. **origin:** Soviet Union. **pedigree:** Selected from DV-287 (China). **other id:** Linia N129. **locality:** Moldavian SSR. **disease resistance:** Fusarium sp. **Cold tolerance.** Cultivated. **Seed.**
- PI 522190 **donor id:** VIR 9171. **origin:** Soviet Union. **pedigree:** Selected from VIR 14. **other id:** Linia N134. **locality:** Moldavian SSR. **disease resistance:** Fusarium sp. **Cold tolerance.** Cultivated. **Seed.**
- PI 522191 **donor id:** VIR 9172. **origin:** Soviet Union. **pedigree:** Selected from 'Fruwirths' (Germany). **other id:** Linia N141. **locality:** Moldavian SSR. **disease resistance:** Fusarium sp. **Cold tolerance.** Cultivated. **Seed.**
- PI 522192 **donor id:** VIR 9175. **origin:** Soviet Union. **pedigree:** Selected from 'Harosoy 63'. **other id:** Linia N145. **locality:** Moldavian SSR. **disease resistance:** Fusarium sp. **Cold tolerance.** Cultivated. **Seed.**

PI 522193 to 522235. Glycine soja Siebold & Zucc. FABACEAE Wild soybean

**Donated by:** Vitkovsky, V., VIR, Leningrad, Soviet Union. **Received** August 04, 1988.

- PI 522193 **donor id:** VIR 8444. **origin:** Soviet Union. **collector:** A.J. Ala. **other id:** L 98. **locality:** Amur Region. **Wild.** **Seed.**
- PI 522194 **donor id:** VIR 8477. **origin:** Soviet Union. **collector:** T.S. Sedova. **other id:** L 419. **locality:** Far East, Primorskaya Province. **Wild.** **Seed.**
- PI 522195 **donor id:** VIR 8479. **origin:** Soviet Union. **collector:** T.S. Sedova. **other id:** L 425. **locality:** Far East, Primorskaya Province. **Wild.** **Seed.**
- PI 522196 **donor id:** VIR 8480. **origin:** Soviet Union. **collector:** T.S. Sedova. **other id:** L 427. **locality:** Far East, Primorskaya Province. **Wild.** **Seed.**
- PI 522197 **donor id:** VIR 8481. **origin:** Soviet Union. **collector:** T.S. Sedova. **other id:** L 429. **locality:** Far East, Primorskaya Province. **Wild.** **Seed.**
- PI 522198 **donor id:** VIR 8482. **origin:** Soviet Union. **collector:** T.S. Sedova. **other id:** L 431. **locality:** Far East, Primorskaya Province. **Wild.** **Seed.**

PI 522193 to 522235-continued

- PI 522199 donor id: VIR 8483. origin: Soviet Union. collector: T.S. Sedova. other id: L 432. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522200 donor id: VIR 8484. origin: Soviet Union. collector: T.S. Sedova. other id: L 435. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522201 donor id: VIR 8485. origin: Soviet Union. collector: T.S. Sedova. other id: L 437. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522202 donor id: VIR 8486. origin: Soviet Union. collector: T.S. Sedova. other id: L 439. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522203 donor id: VIR 8487. origin: Soviet Union. collector: T.S. Sedova. other id: L 440. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522204 donor id: VIR 8488. origin: Soviet Union. collector: T.S. Sedova. other id: L 443. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522205 donor id: VIR 8489. origin: Soviet Union. collector: T.S. Sedova. other id: L 444. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522206 donor id: VIR 8490. origin: Soviet Union. collector: T.S. Sedova. other id: L 446. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522207 donor id: VIR 8491. origin: Soviet Union. collector: T.S. Sedova. other id: L 447. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522208 donor id: VIR 8492. origin: Soviet Union. collector: T.S. Sedova. other id: L 448. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522209 donor id: VIR 8493. origin: Soviet Union. collector: T.S. Sedova. other id: L 449. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522210 donor id: VIR 8494. origin: Soviet Union. collector: T.S. Sedova. other id: L 452. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522211 donor id: VIR 8495. origin: Soviet Union. collector: T.S. Sedova. other id: L 453. locality: Far East, Primorskaya Province. Wild. Seed.

PI 522193 to 522235-continued

- PI 522212 donor id: VIR 8496. origin: Soviet Union. collector: T.S. Sedova. other id: L 454. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522213 donor id: VIR 8497. origin: Soviet Union. collector: T.S. Sedova. other id: L 460. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522214 donor id: VIR 8498. origin: Soviet Union. collector: T.S. Sedova. other id: L 464. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522215 donor id: VIR 8499. origin: Soviet Union. collector: T.S. Sedova. other id: L 465. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522216 donor id: VIR 8500. origin: Soviet Union. collector: T.S. Sedova. other id: L 470. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522217 donor id: VIR 8501. origin: Soviet Union. collector: T.S. Sedova. other id: L 506. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522218 donor id: VIR 8502. origin: Soviet Union. collector: T.S. Sedova. other id: L 507. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522219 donor id: VIR 8503. origin: Soviet Union. collector: T.S. Sedova. other id: L 508. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522220 donor id: VIR 8504. origin: Soviet Union. collector: T.S. Sedova. other id: L 509. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522221 donor id: VIR 8505. origin: Soviet Union. collector: T.S. Sedova. other id: L 511. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522222 donor id: VIR 8506. origin: Soviet Union. collector: T.S. Sedova. other id: L 512. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522223 donor id: VIR 8507. origin: Soviet Union. collector: T.S. Sedova. other id: L 514. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522224 donor id: VIR 8508. origin: Soviet Union. collector: T.S. Sedova. other id: L 516. locality: Far East, Primorskaya Province. Wild. Seed.

PI 522193 to 522235-continued

- PI 522225 donor id: VIR 8509. origin: Soviet Union. collector: T.S. Sedova. other id: L 517. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522226 donor id: VIR 8511. origin: Soviet Union. collector: T.S. Sedova. other id: L 519. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522227 donor id: VIR 8513. origin: Soviet Union. collector: T.S. Sedova. other id: L 522. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522228 donor id: VIR 8514. origin: Soviet Union. collector: T.S. Sedova. other id: L 524. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522229 donor id: VIR 8516. origin: Soviet Union. collector: T.S. Sedova. other id: L 528. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522230 donor id: VIR 8519. origin: Soviet Union. collector: T.S. Sedova. other id: L 537. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522231 donor id: VIR 8520. origin: Soviet Union. collector: T.S. Sedova. other id: L 538. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522232 donor id: VIR 8521. origin: Soviet Union. collector: T.S. Sedova. other id: L 540. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522233 donor id: VIR 8522. origin: Soviet Union. collector: T.S. Sedova. other id: L 543. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522234 donor id: VIR 8523. origin: Soviet Union. collector: T.S. Sedova. other id: L 544. locality: Far East, Primorskaya Province. Wild. Seed.
- PI 522235 donor id: VIR 8525. origin: Soviet Union. collector: T.S. Sedova. other id: L 549. locality: Far East, Primorskaya Province. Wild. Seed.

PI 522236. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by: Boerma, H.R., Dept. of Agronomy, University of Georgia, Athens, Georgia, United States; and Hussey, R.S., Dept. of Plant Pathology, University of Georgia, Agr. Experiment Station, Griffin, Georgia, United States. Received August 16, 1988.



PI 522236-continued

**donor id:** Ga80-1413. **origin:** United States. **cultivar:** THOMAS. **pedigree:** Centennial/F71-1138. **other id:** CV-229. **group:** CSR-SOYBEAN. **other id:** G80-1413. **remarks:** Maturity Group VII. Growth habit determinate. Flowers purple. Pubescence tawny. Pod walls tan. Seeds yellow with shiny coats and black hila. Height, lodging resistance, and seed quality, weight, and oil and protein composition similar to Braxton. Susceptible to peanut root-knot nematode (*Meloidogyne arenaria*). **disease resistance:** Stem canker, foliar diseases, bacterial pustule. Powdery mildew. **nematode resistance:** Soybean cyst (races 1 & 3), southern root-knot. Cultivar. Seed.

PI 522237. *Glycine max* (L.) Merr. FABACEAE Soybean

**Donated by:** Yaklich, R.W., Germplasm Quality & Enhancement Lab., USDA-ARS, Bldg. 001, Rm 116, Beltsville, Maryland, United States; and Cregan, P.B., Nitrogen Fix. and Soybean Genetics Lab., USDA-ARS, Range 1, GH 19, Beltsville, Maryland, United States. Received August 16, 1988.

**donor id:** Md84-2751. **origin:** United States. **pedigree:** Union/D67-5677. **other id:** GP-113. **group:** CSR-SOYBEAN. **remarks:** Plants indeterminate. Maturity Group III. Seedcoat impermeable (95% after 24 hours of soaking). Seed quality excellent. Breeding Material. Seed.

PI 522238. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Pedersen, J.F., USDA-ARS, Dept. of Agronomy, University of Kentucky, Lexington, Kentucky, United States; and Haaland, R.L., Shell Toomer Pkwy., Auburn, Alabama, United States. **remarks:** Germplasm developed and released by the Alabama Agric. Exp. Station, Auburn Univ. Seed source: Agronomy and Soils Dept., Auburn Univ., Auburn AL 36849. Received August 16, 1988.

**donor id:** AU CYCLE 2. **origin:** United States. **pedigree:** Bulk population from 300 vigorous plants selected from 4,500 plants from 90 cultivars/experimental lines. **other id:** GP-209. **group:** CSR-ALFALFA. **remarks:** Plants variable for flower color, leaf size and shape, stem diameter, and stem rigidity. Persistence in SE United States expected to be superior. Perennial. Breeding Material. Seed.

PI 522239. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Sorensen, E.L., USDA-ARS, Dept. of Agronomy, Kansas State University, Throckmorton Hall, Manhattan, Kansas, United States. Received August 16, 1988.

**donor id:** K81-7Ve2. **origin:** United States. **pedigree:** Double strain cross K79-8/KS11//K73-19/KS74. **other id:** GP-210. **group:** CSR-ALFALFA. **remarks:** Germplasm constitution approx. 68% Chilean, 17% *M. varia*, 7% Turkistan, 4% Ladak, 3% Flemish, and 1% Indian. Fall growth similar to Saranac at St. Paul, Minnesota. Susceptible to *Phytophthora* root rot. **disease resistance:** Anthracnose, downy mildew and bacterial, *Fusarium*. *Verticillium* wilts. **insect resistance:** Blue alfalfa, pea, spotted alfalfa aphids. Potato leafhopper. Perennial. Breeding Material. Seed.

PI 522240. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Sorensen, E.L., USDA-ARS, Dept. of Agronomy, Kansas State University, Throckmorton Hall, Manhattan, Kansas, United States; and Horber, E.K., Dept. of Entomology, Kansas State University, Waters Hall, Manhattan, Kansas, United States; and Stuteville, D.L., Dept. of Plant Pathology, Kansas State University, Throckmorton Hall, Manhattan, Kansas, United States. Received August 16, 1988.

**donor id:** KS207. **origin:** United States. **pedigree:** Derived from a 90-clone synthetic (Buffalo-19, Cody-22, Kansas Common-21, and Kanza-28). **other id:** GP-211. **group:** CSR-ALFALFA. **remarks:** Fall growth similar to Saranac at St. Paul Minnesota. **disease resistance:** Anthracnose (race 1), downy mildew, *Phytophthora* root rot. Bacterial and *Fusarium* wilts. **insect resistance:** Blue alfalfa, pea, and spotted alfalfa aphids. Perennial. Breeding Material. Seed.

PI 522241. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Stratton, S.D., & Baluch, S.J., FFR Cooperative, 4112 East State Road 225, West Lafayette, Indiana, United States. Received August 16, 1988.

**donor id:** Syn 7905. **origin:** United States. **cultivar:** ANSTAR. **pedigree:** Six-clone synthetic. **other id:** CV-154. **group:** CSR-ALFALFA. **remarks:** Fall dormancy ratings similar to Saranac. Flower color dark purple (75%), light purple (25%), and white (trace). Susceptible to *Phytophthora* root rot. **disease resistance:** Anthracnose (race 1), bacterial wilt. Moderate to *Fusarium* wilt. Perennial. Cultivar. Seed.

PI 522242. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Melton, Bill, Agronomy and Horticulture Dept., New Mexico State University, Las Cruces, New Mexico, United States. Received August 16, 1988.

**donor id:** MAP. **origin:** United States. **cultivar:** MALONE. **pedigree:** Strain crossing Dona Ana and Man-5, related populations sel. from Mesilla, followed by four cycles of recurrent phenotypic sel. from combined resistance to *Phytophthora* root rot. **other id:** CV-155. **group:** CSR-ALFALFA. **remarks:** Flower color almost 100% purple with trace of white. Parentage Turkistan (23%) and Chilean (77%). Fall dormancy similar to Mesilla. Used for hay production in New Mexico. Susceptible to blue alfalfa aphid. Disease resistance high to *Fusarium* wilt. **disease resistance:** Anthracnose (races 1&2) bacterial wilt, *Phytophthora* root rot. **insect resistance:** Spotted alfalfa aphid, high to pea aphid. **nematode resistance:** Moderate to stem (*Ditylenchus dipsaci*). Perennial. Cultivar. Seed.

PI 522243. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Melton, Bill, Agronomy and Horticulture Dept., New Mexico State University, Las Cruces, New Mexico, United States. Received August 16, 1988.

**donor id:** 9D11A. **origin:** United States. **cultivar:** WILSON. **pedigree:** Field stress screening procedure for plants of Zia, Mesilla, Turkistan, Baker, and NC-83-2. **other id:** CV-156. **group:** CSR-ALFALFA. **remarks:** Flower color almost 100% purple with trace of white. Parentage consists of *M. falcata* (1%), *M. varia* (1%), Turkistan (72%), Flemish (1%), Chilean (22%), African (1%), and unknown (2%) genetic sources. Fall dormancy similar to Mesilla. Developed for hay production in New Mexico under deficit levels of irrigation. Susceptible to anthracnose, *Phytophthora* root rot, and blue alfalfa aphid. **disease resistance:** Bacterial wilt, *Fusarium* wilt. **insect resistance:** Pea aphid, moderate to alfalfa, spotted aphid. **nematode resistance:** Moderate to stem (*Ditylenchus dipsaci*). Perennial. Cultivar. Seed.

PI 522244. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Woodward, W.T.W., Pioneer Hi-Bred International, Inc., P.O. Box 287, Johnston, Iowa, United States. Received August 16, 1988.

PI 522244-continued

**donor id:** XAR53. **origin:** United States. **cultivar:** 5331.  
**pedigree:** Recurrent phenotypic sel. of plants from NCMPIO, Saranac, Vernal, Du Puits, 530, Alfa, Flemish, Titan, Valor, and MN PBl. **other id:** CV-157. **group:** CSR-ALFALFA. **other id:** YAR 53, JHR872. **other id:** 83SR221. **remarks:** Flower color purple (86%), variegated (14%), and traces of white, cream, and yellow. Fall dormancy similar to Saranac. Parentage includes approx. 4% *M. falcata*, 5% Ladak, 18% *M. varia*, 3% Turkistan, 65% Flemish, and 5% Chilean. Forage yield good throughout the northern, central, and southeastern regions of the U.S. MR to anthracnose (race 2). LR to *Verticillium* wilt. **disease resistance:** *Phytophthora*, bact. & *Fusarium* wilts, anthracnose (race 1). **insect resistance:** MR pea (Iowa bio.) & spotted alfalfa (Fresno Co. bio) aphids. **nematode resistance:** MR to stem (*Ditylenchus dipsaci*). Perennial. Cultivar. Seed.

PI 522245. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Woodward, W.T.W, & Miller, J.W, Pioneer Hi-Bred International, Inc., P.O. Box 287, Johnston, Iowa, United States. Received August 16, 1988.

**donor id:** PZ-2. **origin:** United States. **cultivar:** 555.  
**pedigree:** Fourteen-clone synthetic from plants of Kanza, Saranac, Culver, Vernal, 530, DuPuits, and Arkansas MSWT65. **other id:** CV-158. **group:** CSR-ALFALFA. **other id:** 75Z-1. **remarks:** Flower color approx. 90% purple and 10% variegated. Fall dormancy similar to Du Puits. Germplasm sources approx. *M. varia* (33%), Ladak (12%), Turkistan (11%), *M. falcata* (3%), Chilean (17%), and Flemish 24%). Adapted for forage use from eastern Colorado, south through New Mexico, eastward through Kansas and Oklahoma to Virginia. **disease resistance:** Bacterial and *Fusarium* wilts. **insect resistance:** Spotted alfalfa aphid and pea aphid (Calif. biotypes). Perennial. Cultivar. Seed.

PI 522246. *Phaseolus vulgaris* L. FABACEAE Pinto bean

**Donated by:** Wood, D.R., Dept. of Agronomy, Colorado State University, Ft. Collins, Colorado, United States. Received August 16, 1988.

PI 522246-continued

**donor id:** CO 81-13197. **origin:** United States. **cultivar:** BILL Z. **pedigree:** A56-244-39/UI 111//A56-244-8(3526)//Gloria. **other id:** CV-78. **group:** CSR-OTHER LEGUMES. **remarks:** Plant habit semi-vine (Type 3). Maturity 96 days. Seeds 36.4g/100, pinto type. Yield high. Reaction to rust variable at different locations. **disease resistance:** Bean rust (Colorado races) except race 54. Bean common mosaic virus (Type and 15 New York strains). Annual. Cultivar. Seed.

PI 522247. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

**Donated by:** Vasudeva Rao, M.J., ICRISAT, Patancheru P.O., Andhra Pradesh, India. Received August 16, 1988.

**donor id:** ICRISAT Sorghum variety 145. **origin:** India. **cultivar:** ICSV 145. **pedigree:** Pure line sel. from IS 18475(555)/IS 18468(168). **other id:** CV-128. **group:** CSR-SORGHUM. **remarks:** Plants 1.8-2.4m tall, anthesis 63-65 days and maturity 105-110 days from germination. Stalk moderately juicy. Panicles semi-compact, well exerted. Glumes creamy white, covering more than half of kernels. Kernels free-threshing, round, medium-sized, light creamy color. Pericarp thin, lustrous. Race durra-caudatum. Yield high under Striga infested conditions. Seed protein 10% with 3.25% lysine. **disease resistance:** White-flowered strain of Striga asiatica in India. Cultivar. Seed.

PI 522248 to 522249. *Zea mays* L. POACEAE Corn

**Donated by:** Cross, H.Z., Dept. of Agronomy, North Dakota State University, 329 Walster Hall, Fargo, North Dakota, United States. Received August 16, 1988.

PI 522248 **donor id:** NDB(MS)C8. **origin:** United States. **pedigree:** Mass selection from intercross of six inbreds on OP Zapolote Chico. **other id:** GP-193. **group:** CSR-MAIZE. **remarks:** Synthetic, dent-type. Maturity AES 200. Endosperm yellow. Yield high. Lodging resistance good. Potential use in breeding programs for short growing season areas. Breeding Material. Seed.

PI 522249 **donor id:** NDSG(MS)C8. **origin:** United States. **pedigree:** Mass selection from NDSG (derived from OP Minnesota 13). **other id:** GP-194. **group:** CSR-MAIZE. **remarks:** Synthetic, dent-type. Maturity AES 200. Endosperm yellow. Yield high. Lodging resistance good. Potential use in breeding programs for short growing season areas. Breeding Material. Seed.

PI 522250 to 522252. Zea mays L. POACEAE Corn

**Donated by:** Cross, H.Z., Dept. of Agronomy, North Dakota State University, 329 Walster Hall, Fargo, North Dakota, United States. Received August 16, 1988.

PI 522250 **donor id:** ND262. **origin:** United States. **pedigree:** Selected from NDSF(FS)C1, an improved version of NDSF. **other id:** PL-116. **group:** CSR-MAIZE. **other id:** ND84-4. **remarks:** Inbred, yellow dent type. Maturity AES200. Plants short, high yielding. Ears below stalk midpoint. Leaves medium long, moderately wide. Tassels medium sized. Ears with 14 to 16 rows of medium weight kernels. General combining ability good. Breeding Material. Seed.

PI 522251 **donor id:** ND263. **origin:** United States. **pedigree:** Selected from NDSF(FS)C1, an improved version of NDSF. **other id:** PL-117. **group:** CSR-MAIZE. **other id:** ND84-9. **remarks:** Inbred, yellow-dent type. Maturity AES200. Plants medium height. Ears below stalk midpoint. Leaves long, narrow. Tassels small. Ears short, slender with 12 to 14 rows of small, shallow kernels. Overall performance good in specific hybrids. Breeding Material. Seed.

PI 522252 **donor id:** ND264. **origin:** United States. **pedigree:** Selected from NDSF(FS)C1, an improved version of NDSF. **other id:** PL-118. **group:** CSR-MAIZE. **other id:** ND84-11. **remarks:** Inbred, yellow-dent type. Maturity AES200. Plants medium height. Ears well below stalk midpoint. Leaves medium long, wide. Tassels large. Ears with 14 to 18 rows of medium weight, deep kernels. Overall performance in specific hybrid crosses good. Breeding Material. Seed.

PI 522253 to 522270. Zea mays L. POACEAE Corn

**Donated by:** Kere, D., and Zangre, R., Direction des Services Agricoles, IVRAZ, Station de Kamboinee, Burkina Faso. **remarks:** Received through IBPGR, Rome, Italy. Received August 19, 1983.

PI 522253 **donor id:** 320. **origin:** Burkina Faso. **collected:** 1982. **collector id:** 320. Seed.

PI 522254 **donor id:** 321. **origin:** Burkina Faso. **collected:** 1982. **collector id:** 321. Seed.

PI 522255 **donor id:** 332. **origin:** Burkina Faso. **collected:** 1982. **collector id:** 332. Seed.

PI 522256 **donor id:** 338. **origin:** Burkina Faso. **collected:** 1982. **collector id:** 338. Seed.

PI 522253 to 522270-continued

- PI 522257 donor id: 347. origin: Burkina Faso. collected: 1982.  
collector id: 347. Seed.
- PI 522258 donor id: 348. origin: Burkina Faso. collected: 1982.  
collector id: 348. Seed.
- PI 522259 donor id: 349. origin: Burkina Faso. collected: 1982.  
collector id: 349. Seed.
- PI 522260 donor id: 353. origin: Burkina Faso. collected: 1982.  
collector id: 353. Seed.
- PI 522261 donor id: 354. origin: Burkina Faso. collected: 1982.  
collector id: 354. Seed.
- PI 522262 donor id: 355. origin: Burkina Faso. collected: 1982.  
collector id: 355. Seed.
- PI 522263 donor id: 368. origin: Burkina Faso. collected: 1982.  
collector id: 368. Seed.
- PI 522264 donor id: 369. origin: Burkina Faso. collected: 1982.  
collector id: 369. Seed.
- PI 522265 donor id: 373. origin: Burkina Faso. collected: 1982.  
collector id: 373. Seed.
- PI 522266 donor id: 385. origin: Burkina Faso. collected: 1982.  
collector id: 385. Seed.
- PI 522267 donor id: 395. origin: Burkina Faso. collected: 1982.  
collector id: 395. Seed.
- PI 522268 donor id: 396. origin: Burkina Faso. collected: 1982.  
collector id: 396. Seed.
- PI 522269 donor id: 397. origin: Burkina Faso. collected: 1982.  
collector id: 397. Seed.
- PI 522270 donor id: 409. origin: Burkina Faso. collected: 1982.  
collector id: 409. Seed.

PI 522271. *Hordeum vulgare* L. POACEAE Barley

Donated by: Sorrells, M.E., Department of Plant Breeding & Biometry,  
Cornell University, 252 Emerson Hall, Ithaca, New York, United  
States. Received July 29, 1988.

PI 522271-continued

**donor id:** MS22. **origin:** United States. **cultivar:** WILLIS. **pedigree:** Single plant selection from a male-sterile facilitated recurrent selection population. **other id:** CV-105. **group:** CSR-BARLEY. **remarks:** Plants 78cm tall, 6-rowed, feed type. Spikes dense, semi-rough. Aleurone yellow. Yield and test weight high. **cold tolerance:** Susceptible to scald (*Rhynocosporium secalis*). **disease resistance:** Moderate to loose smut (*Ustilago nuda*). Powdery mildew (*Erysiphe graminis*). Winter Annual. Cultivar. Seed.

PI 522272. *Triticum aestivum* L. POACEAE Common wheat

**Donated by:** Bacon, R.K., Dept. of Agronomy, University of Arkansas, 115 Plant Science Bldg., Fayetteville, Arkansas, United States. Received August 12, 1988.

**donor id:** AR 26415. **origin:** United States. **pedigree:** Doublecrop/Purdue 6559B5-6-6-6-1. **remarks:** Soft, red type. High yielding and excellent test weight in Arkansas. Spikes awned and white at maturity. Moderately susceptible to powdery mildew. **disease resistance:** Leaf rust. Moderate to Septoria complex. Winter Annual. Breeding Material. Seed.

PI 522273 to 522274. *Linum africanum* L. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522273 **donor id:** Ames 8003. **origin:** UNCERTAIN.

PI 522274 **donor id:** Ames 8004. **origin:** UNCERTAIN.

PI 522275 to 522276. *Linum alpinum* L. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522275 **donor id:** Ames 8005. **origin:** UNCERTAIN.

PI 522276 **donor id:** Ames 8006. **origin:** UNCERTAIN.



PI 522277. *Linum altaicum* Ledeb. & Juzepczuk LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

donor id: Ames 8007. origin: UNCERTAIN.

PI 522278 to 522284. *Linum austriacum* L. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522278 donor id: Ames 8014. origin: UNCERTAIN.

PI 522279 donor id: Ames 8015. origin: UNCERTAIN.

PI 522280 donor id: Ames 8016. origin: UNCERTAIN.

PI 522281 donor id: Ames 8017. origin: UNCERTAIN.

PI 522282 donor id: Ames 8018. origin: UNCERTAIN.

PI 522283 donor id: Ames 8019. origin: UNCERTAIN.

PI 522284 donor id: Ames 8020. origin: UNCERTAIN.

PI 522285 to 522291. *Linum bienne* Miller LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522285 donor id: Ames 8008. origin: UNCERTAIN.

PI 522286 donor id: Ames 8009. origin: UNCERTAIN.

PI 522287 donor id: Ames 8010. origin: UNCERTAIN.

PI 522288 donor id: Ames 8011. origin: UNCERTAIN.

PI 522289 donor id: Ames 8012. origin: UNCERTAIN.

PI 522290 donor id: Ames 8013. origin: UNCERTAIN.

PI 522291 donor id: Ames 8021. origin: UNCERTAIN.

PI 522292 to 522294. *Linum corymbiferum* Desf. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522292 donor id: Ames 8022. origin: UNCERTAIN.

PI 522293 donor id: Ames 8023. origin: UNCERTAIN.

PI 522294 donor id: Ames 8024. origin: UNCERTAIN.

PI 522295. *Linum decumbens* Desf. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

donor id: Ames 8025. origin: UNCERTAIN.

PI 522296 to 522297. *Linum flavum* L. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522296 donor id: Ames 8081. origin: United Kingdom. origin institute: Thompson & Morgan Ltd., London Road, Ipswich, England IP2 0BA. latitude: N deg. N. Perennial. Cultivated. Seed.

PI 522297 donor id: Ames 8082. origin: United Kingdom. origin institute: Thompson & Morgan Ltd., London Road, Ipswich, England IP2 0BA. pedigree: COMPACTUM. Perennial. Cultivated. Seed.

PI 522298 to 522301. *Linum grandiflorum* Desf. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522298 donor id: Ames 8027. origin: UNCERTAIN.

PI 522299 donor id: Ames 8028. origin: UNCERTAIN.

PI 522300 donor id: Ames 8029. origin: UNCERTAIN.

PI 522301 donor id: Ames 8030. origin: UNCERTAIN.

PI 522302 to 522304. *Linum humile* Mill. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522302 donor id: Ames 8033. origin: UNCERTAIN.

PI 522303 donor id: Ames 8034. origin: UNCERTAIN.

PI 522304 donor id: Ames 8035. origin: UNCERTAIN.

PI 522305 to 522306. *Linum lewisii* Pursh LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522305 donor id: Ames 1799. origin: UNCERTAIN.

PI 522306 donor id: Ames 1800. origin: UNCERTAIN.

PI 522307 to 522308. *Linum marginale* A. Cunn. ex Planch. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522307 donor id: Ames 8036. origin: UNCERTAIN.

PI 522308 donor id: Ames 8037. origin: UNCERTAIN.

PI 522309. *Linum muelleri* Moris LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

donor id: Ames 8039. origin: UNCERTAIN.

PI 522310 to 522311. *Linum narbonense* L. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522310 donor id: Ames 8040. origin: UNCERTAIN.

PI 522311 donor id: Ames 8041. origin: UNCERTAIN.

PI 522312. *Linum nervosum* Waldst. & Kit. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

donor id: Ames 8042. origin: UNCERTAIN.

PI 522313. *Linum pallescens* Bunge LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

donor id: Ames 8043. origin: UNCERTAIN.

PI 522314. *Linum perenne* L. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

donor id: Ames 8044. origin: UNCERTAIN.

PI 522315 to 522331. *Linum* sp. LINACEAE

**Donated by:** North Central Regional PI Station, Ames, Iowa, United States. **remarks:** Accessions without PI-numbers at NC-7; renumbered 9/88. Received September 1988.

PI 522315 donor id: Ames 8026. origin: UNCERTAIN.

PI 522316 donor id: Ames 8031. origin: UNCERTAIN.

PI 522317 donor id: Ames 8032. origin: UNCERTAIN.

PI 522318 donor id: Ames 8038. origin: UNCERTAIN.

PI 522319 donor id: Ames 8045. origin: UNCERTAIN.

PI 522320 donor id: Ames 8046. origin: UNCERTAIN. **remarks:** Cultivated and selected in this old farm for 50 years. According to the genetic observations of the corn breeder, published in the Maize Newsletter, it should carry resistance to several insects. Might be source of resistanc to European Corn Borer.

PI 522321 donor id: Ames 8047. origin: UNCERTAIN.

PI 522322 donor id: Ames 8065. origin: United States.

PI 522315 to 522331-continued

PI 522323 donor id: Ames 8066. origin: United States.  
PI 522324 donor id: Ames 8067. origin: United States.  
PI 522325 donor id: Ames 8068. origin: United States.  
PI 522326 donor id: Ames 8069. origin: United States.  
PI 522327 donor id: Ames 8070. origin: United States.  
PI 522328 donor id: Ames 8071. origin: United States.  
PI 522329 donor id: Ames 8072. origin: United States.  
PI 522330 donor id: Ames 8073. origin: United States.  
PI 522331 donor id: Ames 8074. origin: United States.

PI 522332 to 522529. *Linum usitatissimum* L. LINACEAE Flax

Donated by: Flax Collection, North Dakota State University, Fargo, North Dakota, United States. remarks: Accessions without PI-numbers at FLAX site; renumbered 9/88. Received September 1988.

PI 522332 donor id: Cili 37. origin: Ethiopia. cultivar: BOULGA.  
PI 522333 donor id: Cili 52. origin: United Kingdom. cultivar: DUTCH RIGA CHILD.  
PI 522334 donor id: Cili 142. origin: United States. cultivar: NOVA ROSSISK SELECTI.  
PI 522335 donor id: Cili 801. origin: Netherlands. cultivar: CONCURRENT.  
PI 522336 donor id: Cili 2422. origin: United States. pedigree: TEX.S.4-6WALSHXNGOLD.  
PI 522337 donor id: Cili 2423. origin: United States. pedigree: TEX.S.19-IGIZAXNGOLD.  
PI 522338 donor id: Cili 2703. origin: France. pedigree: LINA GROSSES VILM 1.  
PI 522339 donor id: Cili 2704. origin: France. pedigree: LINA GROSSES VILM 1.  
PI 522340 donor id: Cili 2644. origin: United States. cultivar: BIELENBERG. pedigree: WINDOM S.

PI 522332 to 522529-continued

PI 522341 donor id: Cili 2783. origin: United States. pedigree: SD 1439.

PI 522342 donor id: Cili 2805. origin: United States. pedigree: N-315 KOTO X FOSTER.

PI 522343 donor id: Cili 2853. origin: United States. pedigree: N 619 LINDA/FOSTER. Seed.

PI 522344 donor id: Cili 2875. origin: Soviet Union.

PI 522345 donor id: Cili 2883. origin: Soviet Union. cultivar: AVANGARD.

PI 522346 donor id: Cili 2890. origin: United States. pedigree: M714 WR302 1911PA/HO.

PI 522347 donor id: Cili 2892. origin: United States. pedigree: M17 WR310 1911P4/HO.

PI 522348 donor id: Cili 2895. origin: United States. pedigree: M3P3-181 L/BM3//L/BP.

PI 522349 donor id: Cili 2898. origin: United States. pedigree: B5128 SEL.

PI 522350 donor id: Cili 2906. origin: Canada. cultivar: MODRAN.

PI 522351 donor id: Cili 2907. origin: Canada. cultivar: BULHARSKIJ.

PI 522352 donor id: Cili 3051. origin: United States. pedigree: MECOR/NRD 9/21 M106.

PI 522353 donor id: Cili 3052. origin: United States. pedigree: 5088/3217 M109.

PI 522354 donor id: Cili 3053. origin: United States. pedigree: CUL/5017 M110.

PI 522355 donor id: Cili 3054. origin: United States. pedigree: CUL/5088 M112.

PI 522356 donor id: Cili 3055. origin: United States. pedigree: CI 2538 L11 MI18.

PI 522357 donor id: Cili 3056. origin: United States. pedigree: CI1094/CUL 79/WIS.

PI 522358 donor id: Cili 3057. origin: United States. pedigree: M7605/WIS//CUL 79.

PI 522332 to 522529-continued

PI 522359 donor id: Cili 3058. origin: United States. pedigree:  
LIN/NOR SDT8103.

PI 522360 donor id: Cili 3059. origin: United States. pedigree:  
CI2791//CUL 79.

PI 522361 donor id: Cili 3060. origin: United States.

PI 522362 donor id: Cili 3061. origin: United States.

PI 522363 donor id: Cili 3062. origin: United States.

PI 522364 donor id: Cili 3063. origin: United States. pedigree:  
26 H40//DUF/CUL-2.

PI 522365 donor id: Cili 3064. origin: United States. pedigree:  
M3P3 794-1.

PI 522366 donor id: Cili 3065. origin: Canada. cultivar: NORMAN.  
pedigree: FP707 FP579/L.

PI 522367 donor id: Cili 3088. origin: United States. pedigree:  
MEC/NDR//11/23 M205.

PI 522368 donor id: Cili 3089. origin: United States. pedigree:  
H13/CLB79 H37 U215.

PI 522369 donor id: Cili 3090. origin: United States. pedigree:  
H15//DUF/CLBH34 U218.

PI 522370 donor id: Cili 3091. origin: United States. pedigree:  
H40//DUF/CLB H8 U226.

PI 522371 donor id: Cili 3092. origin: United States. pedigree:  
M7606//2840/M3250 03.

PI 522372 donor id: Cili 3093. origin: United States. pedigree:  
M7605//2820/CLB79 05.

PI 522373 donor id: Cili 3094. origin: United States. pedigree:  
N507//M3250/2799 209.

PI 522374 donor id: Cili 3095. origin: United States. pedigree:  
N507//2820/M3250 211.

PI 522332 to 522529-continued

- PI 522375 donor id: Cili 3096. origin: United States. origin institute: Agri. Experiment Station, North Dakota State University, Fargo, North Dakota. cultivar: NECHE. pedigree: CI2847/CULBERT 79. remarks: Plants intermediate in height (57cm), lodging, wilt resistance, and oil content (41.7%). Maturity 105 days. Yield advantage over commonly grown cultivars. Seed weight 5.4g/1000. Developed by J.J. Hammond, Dept. of Agronomy. Named after a community in NE North Dakota. disease resistance: Rust (L6 N1 rust genes). Fair to wilt.
- PI 522376 donor id: Cili 3097. origin: United States. pedigree: WISHEK/NORED N223.
- PI 522377 donor id: Cili 3100. origin: United States. pedigree: N724//2777/NA419S8312.
- PI 522378 donor id: Cili 3101. origin: United States. pedigree: Z2236/CI 2838 N306.
- PI 522379 donor id: Cili 3102. origin: United States. pedigree: Z878/CI 2828 N315.
- PI 522380 donor id: Cili 3103. origin: United States. pedigree: LIN/CULM3P3 815 U307.
- PI 522381 donor id: Cili 3104. origin: United States. pedigree: LIN/CULM3P3 857 U309.
- PI 522382 donor id: Cili 3105. origin: United States. pedigree: CUL/BSNMEPE 3113 313.
- PI 522383 donor id: Cili 3106. origin: United States. pedigree: CUL/BSNM3P3 3153 314.
- PI 522384 donor id: Cili 3107. origin: Canada. pedigree: DUFFERIN/2820 FP796.
- PI 522385 donor id: Cili 3108. origin: Canada. cultivar: VIMY. pedigree: FP800.
- PI 522386 donor id: Cili 3109. origin: Netherlands. cultivar: HERRA.
- PI 522387 donor id: Cili 3124. origin: Canada. pedigree: ROCKET 4-1 (HAPLOID).
- PI 522388 donor id: Cili 3125. origin: Canada. pedigree: ROCKET 4-2 (HAPLOID).
- PI 522389 donor id: Cili 3127. origin: United States. pedigree: NRSTR/2444//LNT/NRD.



PI 522332 to 522529-continued

PI 522390	donor id: Cili 3128. BFP/CI2915 STD8405.	origin: United States.	pedigree:
PI 522391	donor id: Cili 3129. M803//LNT/NRD S8406.	origin: United States.	pedigree:
PI 522392	donor id: Cili 3130. LNT/2444//LNT2543.	origin: United States.	pedigree:
PI 522393	donor id: Cili 3131. BFP/CULB SDT8412.	origin: United States.	pedigree:
PI 522394	donor id: Cili 3132.	origin: United States.	
PI 522395	donor id: Cili 3133. Z158/CULB 79 N407.	origin: United States.	pedigree:
PI 522396	donor id: Cili 3134. Z1067/CULB 79 N410.	origin: United States.	pedigree:
PI 522397	donor id: Cili 3135. Z181/CULB 79 N412.	origin: United States.	pedigree:
PI 522398	donor id: Cili 3136. Z1067/CULB 79 N421.	origin: United States.	pedigree:
PI 522399	donor id: Cili 3137. CUL/BI M3P3 3056-2.	origin: United States.	pedigree:
PI 522400	donor id: Cili 3138. CUL/BI M3P3 3113.	origin: United States.	pedigree:
PI 522401	donor id: Cili 3139. CUL/BI M3P3 3436-2.	origin: United States.	pedigree:
PI 522402	donor id: Cili 3140. H.O. 1135 M413.	origin: United States.	pedigree:
PI 522403	donor id: Cili 3141. 66C224-14 SR. 142938.	origin: United States.	pedigree:
PI 522404	donor id: Cili 3142. 67B150-6 SR. L42939 [D [D [D [D [D [D].	origin: United States.	pedigree:
PI 522405	donor id: Cili 3143. 67D9-5 SR. 142940.	origin: United States.	pedigree:
PI 522406	donor id: Cili 3144. 67D9-8 SR. 142941.	origin: United States.	pedigree:
PI 522407	donor id: Cili 3145. 67D9-11 SR. 142942.	origin: United States.	pedigree:

PI 522332 to 522529-continued

PI 522408	donor id: Cili 3146. 67D19-7 SR. 142943.	origin: United States.	pedigree:
PI 522409	donor id: Cili 3147. 67D28-10 SR. 142944.	origin: United States.	pedigree:
PI 522410	donor id: Cili 3148. 67D28-25 SR. 142945.	origin: United States.	pedigree:
PI 522411	donor id: Cili 3149. 67D56-32 SR. 142946.	origin: United States.	pedigree:
PI 522412	donor id: Cili 3150. 67D139-9 SR. 142947.	origin: United States.	pedigree:
PI 522413	donor id: Cili 3151. 72B1 SR. 142948.	origin: United States.	pedigree:
PI 522414	donor id: Cili 3152. 72B10 SR. 142949.	origin: United States.	pedigree:
PI 522415	donor id: Cili 3153. 72B11 SR. 142950.	origin: United States.	pedigree:
PI 522416	donor id: Cili 3154. 72B12 SR. 142951.	origin: United States.	pedigree:
PI 522417	donor id: Cili 3155. 72B13 SR. 142952.	origin: United States.	pedigree:
PI 522418	donor id: Cili 3156. 72B14 SR. 142953.	origin: United States.	pedigree:
PI 522419	donor id: Cili 3157. 72B15 SR. 142954.	origin: United States.	pedigree:
PI 522420	donor id: Cili 3158. 72B16 SR. 142955.	origin: United States.	pedigree:
PI 522421	donor id: Cili 3159. 72B18 SR. 142956.	origin: United States.	pedigree:
PI 522422	donor id: Cili 3160. 72B21 SR. 142957.	origin: United States.	pedigree:
PI 522423	donor id: Cili 3161. 72B22 SR. 142958.	origin: United States.	pedigree:
PI 522424	donor id: Cili 3162. 72B25 SR. 142959.	origin: United States.	pedigree:

PI 522332 to 522529-continued

PI 522425 donor id: CILI 3163. origin: United States. cultivar:  
72B28 SR. 142960. pedigree: 72B28 SR. 142960.

PI 522426 donor id: CILI 3164. origin: United States. pedigree:  
72B29 SR. 142961.

PI 522427 donor id: CILI 3165. origin: United States. pedigree:  
72B30 SR. 142962.

PI 522428 donor id: CILI 3166. origin: United States. pedigree:  
72B31 SR. 142963.

PI 522429 donor id: CILI 3167. origin: United States. pedigree:  
72B37 SR. 142964.

PI 522430 donor id: CILI 3168. origin: United States. pedigree:  
72B38 SR. 142965.

PI 522431 donor id: CILI 3169. origin: United States. pedigree:  
72B39 SR. 142966.

PI 522432 donor id: CILI 3170. origin: United States. pedigree:  
72B43 SR. 142967.

PI 522433 donor id: CILI 3171. origin: United States.

PI 522434 donor id: CILI 3172. origin: United States. pedigree:  
72B55 SR. 142969.

PI 522435 donor id: CILI 3173. origin: United States. pedigree:  
72B58 SR. 142970.

PI 522436 donor id: CILI 3174. origin: United States. pedigree:  
72B59 SR. 142971.

PI 522437 donor id: CILI 3175. origin: United States. pedigree:  
72B65 SR. 142972.

PI 522438 donor id: CILI 3176. origin: United States. pedigree:  
72B67 SR. 142973.

PI 522439 donor id: CILI 3177. origin: United States. pedigree:  
72B70 SR. 142974.

PI 522440 donor id: CILI 3178. origin: United States. pedigree:  
72B71 SR. 142975.

PI 522441 donor id: CILI 3179. origin: United States. pedigree:  
72B72 SR. 142976.

PI 522442 donor id: CILI 3180. origin: United States. pedigree:  
72B77 SR. 142977.

PI 522332 to 522529-continued

PI 522443	donor id: Cili 3181. 71B79 SR. 142978.	origin: United States.	pedigree:
PI 522444	donor id: Cili 3182. 72B80 SR. 142979.	origin: United States.	pedigree:
PI 522445	donor id: Cili 3183. 72B82 SR. 142980.	origin: United States.	pedigree:
PI 522446	donor id: Cili 3184. 72B85 SR. 142981.	origin: United States.	pedigree:
PI 522447	donor id: Cili 3185. 72B86 SR. 142982.	origin: United States.	pedigree:
PI 522448	donor id: Cili 3186. 72B87 SR. 142983.	origin: United States.	pedigree:
PI 522449	donor id: Cili 3187. 72B88 SR. 142984.	origin: United States.	pedigree:
PI 522450	donor id: Cili 3188. 72B89 SR. 142985.	origin: United States.	pedigree:
PI 522451	donor id: Cili 3189. 72B90 SR. 142986.	origin: United States.	pedigree:
PI 522452	donor id: Cili 3190. 72B93 SR. 142987.	origin: United States.	pedigree:
PI 522453	donor id: Cili 3191. 72B97 SR. 142988.	origin: United States.	pedigree:
PI 522454	donor id: Cili 3192. 72B98 SR. 142989.	origin: United States.	pedigree:
PI 522455	donor id: Cili 3193. 72B101 SR. 142990.	origin: United States.	pedigree:
PI 522456	donor id: Cili 3194. 75B104 SR. 142991.	origin: United States.	pedigree:
PI 522457	donor id: Cili 3195. 72B108 SR. 142992.	origin: United States.	pedigree:
PI 522458	donor id: Cili 3196. 72b113 sr. 142993.	origin: United States.	pedigree:
PI 522459	donor id: Cili 3197. 72B116 SR. 142994.	origin: United States.	pedigree:

PI 522332 to 522529-continued

PI 522460	donor id: Cili 3198. 72B117 SR. 142995.	origin: United States.	pedigree:
PI 522461	donor id: Cili 3199. 72B119 SR. 142996.	origin: United States.	pedigree:
PI 522462	donor id: Cili 3200. 72B120 SR. 142997.	origin: United States.	pedigree:
PI 522463	donor id: Cili 3201. X75T1 SR. 142999.	origin: United States.	pedigree:
PI 522464	donor id: Cili 3202. X75T42 SR. 143000.	origin: United States.	pedigree:
PI 522465	donor id: Cili 3203. X75T45 SR. 143001.	origin: United States.	pedigree:
PI 522466	donor id: Cili 3204. X75T63 SR. 143002.	origin: United States.	pedigree:
PI 522467	donor id: Cili 3205. X75T64 SR. 143003.	origin: United States.	pedigree:
PI 522468	donor id: Cili 3206. X75T66 SR. 143004.	origin: United States.	pedigree:
PI 522469	donor id: Cili 3207. X75T83 SR. 143005.	origin: United States.	pedigree:
PI 522470	donor id: Cili 3208. X75T126 SR. 143006.	origin: United States.	pedigree:
PI 522471	donor id: Cili 3209. X5T127 SR. 143007.	origin: United States.	pedigree:
PI 522472	donor id: Cili 3210. X75T129 SR. 143008.	origin: United States.	pedigree:
PI 522473	donor id: Cili 3211. X75T168 SR. 143009.	origin: United States.	pedigree:
PI 522474	donor id: Cili 3212. X75T169 SR. 143010.	origin: United States.	pedigree:
PI 522475	donor id: Cili 3213. X75T171 SR. 143011.	origin: United States.	pedigree:
PI 522476	donor id: Cili 3214. X75T209 SR. 143012.	origin: United States.	pedigree:

PI 522332 to 522529-continued

PI 522477	donor id: Cili 3215. X75T210 SR. 143013.	origin: United States.	pedigree:
PI 522478	donor id: Cili 3216. X75T254 SR. 143014.	origin: United States.	pedigree:
PI 522479	donor id: Cili 3217. X75T250 SR. 143015.	origin: United States.	pedigree:
PI 522480	donor id: Cili 3218. X75T251 SR. 143016.	origin: United States.	pedigree:
PI 522481	donor id: Cili 3219. X75T255 SR. 143017.	origin: United States.	pedigree:
PI 522482	donor id: Cili 3220. X75T294 SR. 143018.	origin: United States.	pedigree:
PI 522483	donor id: Cili 3221. X75T335 SR. 143019.	origin: United States.	pedigree:
PI 522484	donor id: Cili 3222. X75T336 SR. 143020.	origin: United States.	pedigree:
PI 522485	donor id: Cili 3223. X75T337 SR. 1.	origin: United States.	pedigree:
PI 522486	donor id: Cili 3224. 67D1108 SR. 143022.	origin: United States.	pedigree:
PI 522487	donor id: Cili 3225. 67D1150 SR. 143023.	origin: United States.	pedigree:
PI 522488	donor id: Cili 3226. 67D1283 SR. 143024.	origin: United States.	pedigree:
PI 522489	donor id: Cili 3227. 671902 SR. 143025.	origin: United States.	pedigree:
PI 522490	donor id: Cili 3228. 671903 SR. 143026.	origin: United States.	pedigree:
PI 522491	donor id: Cili 3229. 671941 SR. 143027.	origin: United States.	pedigree:
PI 522492	donor id: Cili 3230. 671943 SR. 143028.	origin: United States.	cultivar: pedigree: 671943 SR. 143028.
PI 522493	donor id: Cili 3231. 6711738 SR. 143029.	origin: United States.	pedigree:

PI 522332 to 522529-continued

PI 522494 donor id: Cili 3232. origin: China. cultivar: TAINUNG  
SEL-2.

PI 522495 donor id: Cili 3233. origin: Hungary. cultivar: OLIN.

PI 522496 donor id: Cili 3234. origin: United States. pedigree:  
HAPLOID 2N BLK /M3P3.

PI 522497 donor id: Cili 3235. origin: United States. pedigree:  
WINDOM L" M419.

PI 522498 donor id: Cili 3236. origin: United States. pedigree:  
CI 2538 L" M421.

PI 522499 donor id: Cili 3237. origin: United States. pedigree:  
WINDOM X CI 2138.

PI 522500 donor id: Cili 3238. origin: United States. pedigree:  
NORED L" M425.

PI 522501 donor id: Cili 3239. origin: United States. pedigree:  
HIGHOIL 616 83-1383.

PI 522502 donor id: Cili 3240. origin: United States. pedigree:  
HIGHOIL 629 83-1433.

PI 522503 donor id: Cili 3241. origin: United States. pedigree:  
CI 2611-1 SEL FIBER.

PI 522504 donor id: Cili 3242. origin: United States. pedigree:  
CI 1886-3 SEL FIBER.

PI 522505 donor id: Cili 3243. origin: United States. pedigree:  
SD84104 707/2777/419.

PI 522506 donor id: Cili 3244. origin: United States. pedigree:  
SD84126 707/2777/419.

PI 522507 donor id: Cili 3245. origin: United States. pedigree:  
SD884164 707/2777/419.

PI 522508 donor id: Cili 3246. origin: United States. pedigree:  
N505 Z1153/DUFFERIN.

PI 522509 donor id: Cili 3247. origin: United States. pedigree:  
N509 Z2236/NORED.

PI 522510 donor id: Cili 3248. origin: United States. pedigree:  
N518 Z704/DUFFERIN.

PI 522511 donor id: Cili 3249. origin: United States. pedigree:  
N524 Z953/DUFFERIN.

PI 522332 to 522529-continued

PI 522512 donor id: Cili 3250. origin: United States. pedigree:  
M508 H03/H06 84-518.

PI 522513 donor id: Cili 3251. origin: United States. pedigree:  
M519 H04/H05 84-629.

PI 522514 donor id: Cili 3252. origin: Canada. pedigree: FP792  
DUFFERIN/MCGRG.

PI 522515 donor id: Cili 3253. origin: Canada. pedigree: STS  
FP846 SALT TOL S.

PI 522516 donor id: Cili 3254. origin: Canada. cultivar: RAJA.  
pedigree: K1.

PI 522517 donor id: Cili 3259. origin: United States. pedigree:  
U605 CI3036/FLOR.

PI 522518 donor id: Cili 3260. origin: United States. pedigree:  
U607 CI3025//M3P3 BI.

PI 522519 donor id: Cili 3261. origin: United States. cultivar:  
U617 M3P3//CUL/BI.

PI 522520 donor id: Cili 3262. origin: United States. pedigree:  
U625 LIN/M3P3//CUL/B.

PI 522521 donor id: Cili 3263. origin: United States.

PI 522522 donor id: Cili 3264. origin: United States.

PI 522523 donor id: Cili 3265. origin: United States.

PI 522524 donor id: Cili 3266. origin: United States. pedigree:  
SDT8604 C79//LNT/SD1.

PI 522525 donor id: Cili 3267. origin: United States. pedigree:  
SDT8607 M409/N415/M9.

PI 522526 donor id: Cili 3268. origin: United States.

PI 522527 donor id: Cili 3269. origin: United States. pedigree:  
SDT8616 M409/N415/M9.

PI 522528 donor id: Cili 3270. origin: Canada. pedigree: FP862  
LNT/NORMAN.

PI 522529 donor id: Cili 3271. origin: Canada. pedigree: FP863  
MCGRG/CULB 79.



PI 522530. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** National Seed Storage Laboratory, Fort Collins, Colorado, United States. **remarks:** Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by Agriculture Canada, Agric. Res. Sta., Regina, Saskatchewan, Canada. Received September 1988.

donor id: NSL 52523. origin: UNKNOWN. cultivar:  
NORALTO. Seed.

PI 522531 to 522533. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** National Seed Storage Laboratory, Fort Collins, Colorado, United States. **remarks:** Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by USDA, ARS, Beltsville, Maryland. Received September 1988.

PI 522531 donor id: NSL 3222. origin: UNKNOWN. cultivar: IMPERIAL  
PUNJAB. Seed.

PI 522532 donor id: NSL 3223. origin: UNKNOWN. cultivar: PUNJAB  
47. Seed.

PI 522533 donor id: NSL 3224. origin: UNKNOWN. cultivar: PUNJAB  
53. Seed.

PI 522534. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** National Seed Storage Laboratory, Fort Collins, Colorado, United States. **remarks:** Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by California AES. Received September 1988.

donor id: NSL 2857. origin: UNKNOWN. cultivar: PUNJAB  
53. Seed.

PI 522535. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** Flax Collection, North Dakota State University, Fargo, North Dakota, United States. **remarks:** Accessions without PI-numbers at FLAX site; renumbered 9/88. Originally donated by California AES. Received September 1988.

donor id: Cili 2432. origin: United States. cultivar:  
DUNES. Seed.

PI 522536 to 522538. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** National Seed Storage Laboratory, Fort Collins, Colorado, United States. **remarks:** Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by USDA, ARS, Minnesota. Received September 1988.

PI 522536 donor id: Cili 466. origin: UNKNOWN. Seed.

PI 522537 donor id: NSL 48. origin: UNKNOWN. cultivar: REDWING. Seed.

PI 522538 donor id: NSL 49. origin: UNKNOWN. cultivar: ARNY. Seed.

PI 522539 to 523982. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** Flax Collection, North Dakota State University, Fargo, North Dakota, United States. **remarks:** Accessions without PI-numbers at FLAX site; renumbered 9/88. Originally donated by USDA, ARS, Minnesota. Received September 1988.

PI 522539 donor id: Cili 3. origin: United States. cultivar: DAMONT. Seed.

PI 522540 donor id: Cili 8. origin: United States. cultivar: N D RESISTANT 52. Seed.

PI 522541 donor id: Cili 13. origin: United States. pedigree: CI 13-61. Seed.

PI 522542 donor id: Cili 19. origin: United States. Seed.

PI 522543 donor id: Cili 20. origin: India. cultivar: PUNJAB. Seed.

PI 522544 donor id: Cili 21. origin: India. cultivar: JALAUN. Seed.

PI 522545 donor id: Cili 23. origin: Canada. cultivar: LETHBRIDGE GOLDEN. Seed.

PI 522546 donor id: Cili 24. origin: Canada. cultivar: OTTAWA WHITE FLOWER. Seed.

PI 522547 donor id: Cili 25. origin: United States. Seed.

PI 522548 donor id: Cili 27. origin: Soviet Union. Seed.

PI 522549 donor id: Cili 31. origin: Turkey. cultivar: CRETE. Seed.

PI 522539 to 523982-continued

PI 522550 donor id: Cili 36. origin: Ethiopia. cultivar: SODDO  
WHITE. Seed.

PI 522551 donor id: Cili 42. origin: India. cultivar: BOMBAY.  
Seed.

PI 522552 donor id: Cili 112. origin: Argentina. Seed.

PI 522553 donor id: Cili 114. origin: Argentina. cultivar:  
CASILDA. Seed.

PI 522554 donor id: Cili 119. origin: Argentina. Seed.

PI 522555 donor id: Cili 132. origin: Korea. cultivar: KOREAN.  
Seed.

PI 522556 donor id: Cili 133. origin: United States. cultivar:  
MONISTON. Seed.

PI 522557 donor id: Cili 140. origin: Canada. cultivar: NOVELTY.  
Seed.

PI 522558 donor id: Cili 156. origin: United States. pedigree:  
SEL CI 21-2 JALAUN. Seed.

PI 522559 donor id: Cili 157. origin: Argentina. cultivar:  
ESCALADA. Seed.

PI 522560 donor id: Cili 160. origin: Argentina. Seed.

PI 522561 donor id: Cili 173. origin: United States. pedigree:  
RES X HOSHANGABAD(CI19XCi140). Seed.

PI 522562 donor id: Cili 176. origin: United States. pedigree:  
SEL CI 19-47 PALE BLUE. Seed.

PI 522563 donor id: Cili 178. origin: United States. Seed.

PI 522564 donor id: Cili 179. origin: United States. Seed.

PI 522565 donor id: Cili 184. origin: United States. cultivar:  
BILLINGS. Seed.

PI 522566 donor id: Cili 188. origin: United States. cultivar:  
NEWLAND. Seed.

PI 522567 donor id: Cili 241. origin: United States. Seed.

PI 522568 donor id: Cili 244. origin: United States. cultivar:  
LINOTA. Seed.

PI 522539 to 523982-continued

PI 522569 donor id: Cili 270. origin: United States. pedigree: BUDA SEL/CI 270-1. Seed.

PI 522570 donor id: Cili 274. origin: United States. cultivar: SLOPE. pedigree: (CI S-19). Seed.

PI 522571 donor id: Cili 275. origin: United States. Seed.

PI 522572 donor id: Cili 280. origin: United States. cultivar: RIO. Seed.

PI 522573 donor id: Cili 295. origin: Soviet Union. cultivar: VOZ. Seed.

PI 522574 donor id: Cili 300. origin: Ethiopia. pedigree: ABYSSINIA (YELLOW). Seed.

PI 522575 donor id: Cili 301. origin: Ethiopia. pedigree: ABYSSINIAN (BROWN). Seed.

PI 522576 donor id: Cili 302. origin: Ethiopia. pedigree: ABYSSINIAN (BROWN). Seed.

PI 522577 donor id: Cili 303. origin: China. cultivar: USSURISK. Seed.

PI 522578 donor id: Cili 311. origin: Soviet Union. Seed.

PI 522579 donor id: Cili 316. origin: United States. Seed.

PI 522580 donor id: Cili 320. origin: United States. cultivar: REDWING. Seed.

PI 522581 donor id: Cili 321. origin: Canada. cultivar: DIADEM. Seed.

PI 522582 donor id: Cili 322. origin: Canada. Seed.

PI 522583 donor id: Cili 323. origin: Canada. pedigree: BLANC/CI 323-3. Seed.

PI 522584 donor id: Cili 324. origin: Canada. cultivar: LAPLATA C. Seed.

PI 522585 donor id: Cili 325. origin: Canada. pedigree: YELLOW SEED B. Seed.

PI 522586 donor id: Cili 326. origin: United States. cultivar: BUDA. Seed.

PI 522587 donor id: Cili 327. origin: Canada. cultivar: CROWN. Seed.

PI 522539 to 523982-continued

PI 522588 donor id: Cili 329. origin: Netherlands. Seed.

PI 522589 donor id: Cili 330. origin: Netherlands. Seed.

PI 522590 donor id: Cili 332. origin: Netherlands. Seed.

PI 522591 donor id: Cili 333. origin: Netherlands. pedigree: TAMES PALE BLUE/CI 333-2. Seed.

PI 522592 donor id: Cili 334. origin: Netherlands. Seed.

PI 522593 donor id: Cili 336. origin: Netherlands. Seed.

PI 522594 donor id: Cili 341. origin: Germany. pedigree: N D NUR NO 1739 (G.28 121 ST). Seed.

PI 522595 donor id: Cili 342. origin: Germany. pedigree: CI 342-1. Seed.

PI 522596 donor id: Cili 354. origin: United States. cultivar: LONG NO 83. Seed.

PI 522597 donor id: Cili 355. origin: Canada. cultivar: OTTAWA 770B. Seed.

PI 522598 donor id: Cili 356. origin: United States. Seed.

PI 522599 donor id: Cili 376. origin: Egypt. pedigree: CI 376-2. Seed.

PI 522600 donor id: Cili 377. origin: Egypt. cultivar: BELADI. Seed.

PI 522601 donor id: Cili 378. origin: Egypt. cultivar: GIZA. Seed.

PI 522602 donor id: Cili 379. origin: Egypt. pedigree: MAUVE/CI 379-1. Seed.

PI 522603 donor id: Cili 381. origin: Argentina. pedigree: LINO GRANDE SEL/CI 381-2. Seed.

PI 522604 donor id: Cili 387. origin: United States. Seed.

PI 522605 donor id: Cili 388. origin: Ireland. cultivar: J W S FIBER. Seed.

PI 522606 donor id: Cili 389. origin: United States. cultivar: BISON. Seed.

PI 522607 donor id: Cili 423. origin: United States. Seed.

PI 522539 to 523982-continued

- PI 522608 donor id: Cili 391. origin: United States. cultivar: OTTAWA. Seed.
- PI 522609 donor id: Cili 399. origin: United States. cultivar: N D RESISTANT 714. Seed.
- PI 522610 donor id: Cili 411. origin: United States. pedigree: SEL N D RESISTANT 5. Seed.
- PI 522611 donor id: Cili 412. origin: United States. pedigree: SEL N D RESISTANT 726. Seed.
- PI 522612 donor id: Cili 414. origin: United States. cultivar: BIGLOW. Seed.
- PI 522613 donor id: Cili 416. origin: United States. Seed.
- PI 522614 donor id: Cili 417. origin: United States. cultivar: ARGENTINE. Seed.
- PI 522615 donor id: Cili 419. origin: United States. Seed.
- PI 522616 donor id: Cili 420. origin: United States. cultivar: JANE. Seed.
- PI 522617 donor id: Cili 438. origin: United States. pedigree: SEL OF MINN 281. Seed.
- PI 522618 donor id: Cili 446. origin: United States. pedigree: PALE BLUE SEL FROM N D R. Seed.
- PI 522619 donor id: Cili 448. origin: United States. Seed.
- PI 522620 donor id: Cili 451. origin: United States. pedigree: CI 451-3. Seed.
- PI 522621 donor id: Cili 462. origin: United States. cultivar: SEL OF ARGENTINE. Seed.
- PI 522622 donor id: Cili 463. origin: United States. cultivar: ARGENTINE. Seed.
- PI 522623 donor id: Cili 469. origin: Netherlands. cultivar: N9. pedigree: LINUM USITATISSIMUM CREPITANS. Seed.
- PI 522624 donor id: Cili 470. origin: Netherlands. pedigree: ROMAN WINTER SEL/CI 470-1. Seed.
- PI 522625 donor id: Cili 472. origin: United States. pedigree: CI 472-9. Seed.

PI 522539 to 523982-continued

PI 522626 donor id: Cili 473. origin: United States. pedigree:  
SIB 206. Seed.

PI 522627 donor id: Cili 476. origin: United States. pedigree:  
SEL OF CI 167 X 179. Seed.

PI 522628 donor id: Cili 479. origin: United States. pedigree:  
SEL OF N D R 114. Seed.

PI 522629 donor id: Cili 481. origin: United States. cultivar:  
WINONA. Seed.

PI 522630 donor id: Cili 487. origin: United States. pedigree:  
SEL OF 1661. Seed.

PI 522631 donor id: Cili 489. origin: United States. cultivar: N  
D RESISTANT NO 114. Seed.

PI 522632 donor id: Cili 490. origin: United States. cultivar: N  
D RESISTANT NO 52. Seed.

PI 522633 donor id: Cili 492. origin: United States. pedigree: N  
D 40046. Seed.

PI 522634 donor id: Cili 494. origin: United States. Seed.

PI 522635 donor id: Cili 500. origin: Japan. cultivar: SAGINO.  
Seed.

PI 522636 donor id: Cili 505. origin: Soviet Union. cultivar:  
ARGENTINE. Seed.

PI 522637 donor id: Cili 644. origin: United States. cultivar:  
BOLLEY GOLDEN. Seed.

PI 522638 donor id: Cili 506. origin: Soviet Union. cultivar: N9.  
pedigree: DEHISCENT. Seed.

PI 522639 donor id: Cili 507. origin: Soviet Union. pedigree:  
DEHISCENT. Seed.

PI 522640 donor id: Cili 509. origin: Soviet Union. pedigree:  
COMMON WHITE. Seed.

PI 522641 donor id: Cili 510. origin: Soviet Union. pedigree:  
COMMON WHITE. Seed.

PI 522642 donor id: Cili 514. origin: Soviet Union. Seed.

PI 522643 donor id: Cili 515. origin: Soviet Union. Seed.

PI 522644 donor id: Cili 516. origin: Soviet Union. Seed.

PI 522539 to 523982-continued

PI 522645 donor id: Cili 517. origin: Soviet Union. Seed.  
PI 522646 donor id: Cili 518. origin: Soviet Union. Seed.  
PI 522647 donor id: Cili 519. origin: Soviet Union. Seed.  
PI 522648 donor id: Cili 522. origin: Soviet Union. Seed.  
PI 522649 donor id: Cili 523. origin: Soviet Union. Seed.  
PI 522650 donor id: Cili 524. origin: Soviet Union. Seed.  
PI 522651 donor id: Cili 525. origin: Soviet Union. Seed.  
PI 522652 donor id: Cili 526. origin: Soviet Union. Seed.  
PI 522653 donor id: Cili 528. origin: Soviet Union. Seed.  
PI 522654 donor id: Cili 531. origin: Soviet Union. Seed.  
PI 522655 donor id: Cili 532. origin: Soviet Union. Seed.  
PI 522656 donor id: Cili 533. origin: Soviet Union. Seed.  
PI 522657 donor id: Cili 538. origin: Soviet Union. Seed.  
PI 522658 donor id: Cili 543. origin: Soviet Union. Seed.  
PI 522659 donor id: Cili 544. origin: Soviet Union. Seed.  
PI 522660 donor id: Cili 547. origin: Soviet Union. Seed.  
PI 522661 donor id: Cili 548. origin: Soviet Union. Seed.  
PI 522662 donor id: Cili 550. origin: Soviet Union. Seed.  
PI 522663 donor id: Cili 551. origin: Soviet Union. Seed.  
PI 522664 donor id: Cili 552. origin: Soviet Union. Seed.  
PI 522665 donor id: Cili 553. origin: Soviet Union. Seed.  
PI 522666 donor id: Cili 554. origin: Soviet Union. Seed.  
PI 522667 donor id: Cili 555. origin: Soviet Union. Seed.  
PI 522668 donor id: Cili 556. origin: Soviet Union. Seed.  
PI 522669 donor id: Cili 557. origin: Soviet Union. Seed.  
PI 522670 donor id: Cili 558. origin: Soviet Union. Seed.



PI 522539 to 523982-continued

PI 522671 donor id: Cili 562. origin: Soviet Union. Seed.  
PI 522672 donor id: Cili 563. origin: Soviet Union. Seed.  
PI 522673 donor id: Cili 564. origin: Soviet Union. Seed.  
PI 522674 donor id: Cili 565. origin: Soviet Union. Seed.  
PI 522675 donor id: Cili 566. origin: Soviet Union. Seed.  
PI 522676 donor id: Cili 567. origin: Soviet Union. Seed.  
PI 522677 donor id: Cili 568. origin: Soviet Union. Seed.  
PI 522678 donor id: Cili 569. origin: Soviet Union. Seed.  
PI 522679 donor id: Cili 570. origin: Soviet Union. Seed.  
PI 522680 donor id: Cili 571. origin: Soviet Union. Seed.  
PI 522681 donor id: Cili 572. origin: Soviet Union. Seed.  
PI 522682 donor id: Cili 573. origin: Soviet Union. Seed.  
PI 522683 donor id: Cili 574. origin: Soviet Union. Seed.  
PI 522684 donor id: Cili 575. origin: Soviet Union. Seed.  
PI 522685 donor id: Cili 576. origin: Soviet Union. Seed.  
PI 522686 donor id: Cili 577. origin: Soviet Union. Seed.  
PI 522687 donor id: Cili 578. origin: Soviet Union. Seed.  
PI 522688 donor id: Cili 580. origin: Soviet Union. Seed.  
PI 522689 donor id: Cili 581. origin: Soviet Union. Seed.  
PI 522690 donor id: Cili 583. origin: Soviet Union. Seed.  
PI 522691 donor id: Cili 584. origin: Soviet Union. Seed.  
PI 522692 donor id: Cili 585. origin: Soviet Union. Seed.  
PI 522693 donor id: Cili 586. origin: Soviet Union. Seed.  
PI 522694 donor id: Cili 589. origin: Soviet Union. Seed.  
PI 522695 donor id: Cili 590. origin: Soviet Union. Seed.  
PI 522696 donor id: Cili 593. origin: Soviet Union. Seed.

PI 522539 to 523982-continued

PI 522697	donor id: Cili 594.	origin: Soviet Union.	Seed.
PI 522698	donor id: Cili 595.	origin: Soviet Union.	Seed.
PI 522699	donor id: Cili 597.	origin: Soviet Union.	Seed.
PI 522700	donor id: Cili 599.	origin: Soviet Union.	Seed.
PI 522701	donor id: Cili 601.	origin: Soviet Union.	Seed.
PI 522702	donor id: Cili 602.	origin: Soviet Union.	Seed.
PI 522703	donor id: Cili 603.	origin: Soviet Union.	Seed.
PI 522704	donor id: Cili 604.	origin: Soviet Union.	Seed.
PI 522705	donor id: Cili 606.	origin: Soviet Union.	Seed.
PI 522706	donor id: Cili 607.	origin: Soviet Union.	Seed.
PI 522707	donor id: Cili 608.	origin: Soviet Union.	Seed.
PI 522708	donor id: Cili 610.	origin: Soviet Union.	Seed.
PI 522709	donor id: Cili 612.	origin: Soviet Union.	Seed.
PI 522710	donor id: Cili 613.	origin: Soviet Union.	Seed.
PI 522711	donor id: Cili 614.	origin: Soviet Union.	Seed.
PI 522712	donor id: Cili 615.	origin: Soviet Union.	Seed.
PI 522713	donor id: Cili 616.	origin: Soviet Union.	Seed.
PI 522714	donor id: Cili 617.	origin: Soviet Union.	Seed.
PI 522715	donor id: Cili 618.	origin: Soviet Union.	Seed.
PI 522716	donor id: Cili 620.	origin: Soviet Union.	Seed.
PI 522717	donor id: Cili 621.	origin: Soviet Union.	Seed.
PI 522718	donor id: Cili 622.	origin: Soviet Union.	Seed.
PI 522719	donor id: Cili 623.	origin: Soviet Union.	Seed.
PI 522720	donor id: Cili 624.	origin: Soviet Union.	Seed.
PI 522721	donor id: Cili 625.	origin: Soviet Union.	Seed.
PI 522722	donor id: Cili 628.	origin: Soviet Union.	Seed.

PI 522539 to 523982-continued

PI 522723 donor id: Cili 629. origin: Soviet Union. Seed.

PI 522724 donor id: Cili 630. origin: Soviet Union. pedigree: ARK  
26 OKRA LEAF MCNAMARA. Seed.

PI 522725 donor id: Cili 635. origin: Soviet Union. pedigree:  
NORTH AFRICA. Seed.

PI 522726 donor id: Cili 646. origin: United States. pedigree:  
PALE BLUE. Seed.

PI 522727 donor id: Cili 647. origin: United States. pedigree:  
PALE BLUE CRIMPED. Seed.

PI 522728 donor id: Cili 648. origin: United States. Seed.

PI 522729 donor id: Cili 649. origin: United States. pedigree:  
LIGHT PINK. Seed.

PI 522730 donor id: Cili 656. origin: United States. pedigree:  
ARGENTINE X SAGINAW (116) FZ. Seed.

PI 522731 donor id: Cili 671. origin: United States. pedigree:  
SAGINAW X BOMBAY F6. Seed.

PI 522732 donor id: Cili 674. origin: United States. pedigree:  
WINONA X OTTAWA 770B F6. Seed.

PI 522733 donor id: Cili 675. origin: United States. pedigree:  
SAGINAW X OTTAWA 770B F6. Seed.

PI 522734 donor id: Cili 684. origin: United States. pedigree:  
SAGINAW X OTTAWA 770B F6. Seed.

PI 522735 donor id: Cili 687. origin: United States. cultivar:  
TALMUNE. Seed.

PI 522736 donor id: Cili 689. origin: Canada. cultivar: CYPRUS.  
Seed.

PI 522737 donor id: Cili 690. origin: United States. cultivar:  
RIGO. Seed.

PI 522738 donor id: Cili 692. origin: United States. pedigree:  
ARGENTINE SEL (LAVENDER). Seed.

PI 522739 donor id: Cili 693. origin: United States. cultivar:  
PINNACLE. Seed.

PI 522740 donor id: Cili 694. origin: United States. pedigree: F  
I NO 3. Seed.

PI 522539 to 523982-continued

- PI 522741 donor id: Cili 695. origin: United States. Seed.
- PI 522742 donor id: Cili 696. origin: United States. pedigree: MALABRIGO SEL. Seed.
- PI 522743 donor id: Cili 698. origin: Soviet Union. pedigree: L ANGUSTIFOLIUM. Seed.
- PI 522744 donor id: Cili 701. origin: Ethiopia. pedigree: ABYSSINIAN BROWN. Seed.
- PI 522745 donor id: Cili 704. origin: Australia. cultivar: MOOSE. Seed.
- PI 522746 donor id: Cili 705. origin: United States. pedigree: ARGENTINE SEL. Seed.
- PI 522747 donor id: Cili 708. origin: Kenya. cultivar: J W S. Seed.
- PI 522748 donor id: Cili 709. origin: Kenya. cultivar: KENYA. Seed.
- PI 522749 donor id: Cili 715. origin: United States. pedigree: MINN SEL WINONA X 770B F5. Seed.
- PI 522750 donor id: Cili 716. origin: United States. pedigree: MINN SEL WINONA X 770B F5. Seed.
- PI 522751 donor id: Cili 719. origin: United States. pedigree: LONG 66 (NON-CILIATE) 2100 5. Seed.
- PI 522752 donor id: Cili 720. origin: United States. cultivar: CAPA. pedigree: (ARGENTINE). Seed.
- PI 522753 donor id: Cili 721. origin: United States. cultivar: CAPA 10. Seed.
- PI 522754 donor id: Cili 722. origin: United States. cultivar: CAPA 11. Seed.
- PI 522755 donor id: Cili 724. origin: Ireland. cultivar: BEATALL. pedigree: (LIRAL 2). Seed.
- PI 522756 donor id: Cili 728. origin: Ireland. cultivar: GOSSAMER (STORMONT). Seed.
- PI 522757 donor id: Cili 736. origin: United States. cultivar: SMOKEY GOLDEN. Seed.
- PI 522758 donor id: Cili 737. origin: United States. cultivar: BUDA SEL. Seed.

PI 522539 to 523982-continued

- PI 522759 donor id: Cili 738. origin: United States. pedigree: SEL RIO CI 280 X CI 263. Seed.
- PI 522760 donor id: Cili 739. origin: United States. pedigree: HYB SEL OF 19X(19X(19X112)). Seed.
- PI 522761 donor id: Cili 740. origin: United States. pedigree: SEL BUDA//19/112. Seed.
- PI 522762 donor id: Cili 741. origin: United States. pedigree: SEL BUDA//19/112. Seed.
- PI 522763 donor id: Cili 742. origin: United States. pedigree: SEL BUDA//19/112. Seed.
- PI 522764 donor id: Cili 743. origin: United States. pedigree: SEL (19 X 112) X 19. Seed.
- PI 522765 donor id: Cili 749. origin: United States. Seed.
- PI 522766 donor id: Cili 751. origin: United States. cultivar: SMOKEY GOLDEN. pedigree: NO 1846. Seed.
- PI 522767 donor id: Cili 754. origin: United States. Seed.
- PI 522768 donor id: Cili 757. origin: United States. Seed.
- PI 522769 donor id: Cili 758. origin: Soviet Union. pedigree: DEHISCENT (CREPITANS). Seed.
- PI 522770 donor id: Cili 759. origin: Soviet Union. pedigree: DEHISCENT (L CREPITANS). Seed.
- PI 522771 donor id: Cili 761. origin: Spain. pedigree: CEHISCENT (L CREPITANS). Seed.
- PI 522772 donor id: Cili 763. origin: India. pedigree: INDIAN COMMERCIAL. Seed.
- PI 522773 donor id: Cili 782. origin: United States. Seed.
- PI 522774 donor id: Cili 765. origin: Netherlands. pedigree: TAMMES TYPE 1. Seed.
- PI 522775 donor id: Cili 766. origin: Netherlands. pedigree: TAMMES TYPE 2. Seed.
- PI 522776 donor id: Cili 767. origin: Netherlands. pedigree: TAMMES TYPE 3. Seed.
- PI 522777 donor id: Cili 768. origin: Netherlands. pedigree: TAMES TYPE 4. Seed.

PI 522539 to 523982-continued

- PI 522778 donor id: Cili 769. origin: Netherlands. pedigree: TAMMES TYPE 5. Seed.
- PI 522779 donor id: Cili 774. origin: Netherlands. pedigree: TAMMES TYPE 10. Seed.
- PI 522780 donor id: Cili 775. origin: Netherlands. pedigree: TAMMES TYPE 11. Seed.
- PI 522781 donor id: Cili 776. origin: Netherlands. pedigree: TAMMES TYPE 12. Seed.
- PI 522782 donor id: Cili 777. origin: Netherlands. pedigree: TAMMES TYPE 13. Seed.
- PI 522783 donor id: Cili 781. origin: United States. pedigree: INDIAN COMMERCIAL. Seed.
- PI 522784 donor id: Cili 785. origin: Uruguay. pedigree: SEL 9B. Seed.
- PI 522785 donor id: Cili 786. origin: Uruguay. pedigree: SEL 12C12. Seed.
- PI 522786 donor id: Cili 787. origin: Uruguay. pedigree: SEL AR (CROSS). Seed.
- PI 522787 donor id: Cili 788. origin: Uruguay. pedigree: SEL AM (CROSS). Seed.
- PI 522788 donor id: Cili 789. origin: Uruguay. cultivar: REPETIBLE 117. Seed.
- PI 522789 donor id: Cili 790. origin: Uruguay. cultivar: REPETIBLE 3/33. Seed.
- PI 522790 donor id: Cili 795. origin: India. cultivar: RISIA. Seed.
- PI 522791 donor id: Cili 796. origin: India. cultivar: ISMAILPUR. Seed.
- PI 522792 donor id: Cili 800. origin: Netherlands. cultivar: DORST F6. Seed.
- PI 522793 donor id: Cili 802. origin: India. cultivar: INDIAN BOLD. Seed.
- PI 522794 donor id: Cili 803. origin: United States. cultivar: WILLISTON BROWN/CI 803-1. Seed.

PI 522539 to 523982-continued

PI 522795 donor id: Cili 808. origin: United States. pedigree:  
CALIF NO 2. Seed.

PI 522796 donor id: Cili 810. origin: United States. Seed.

PI 522797 donor id: Cili 819. origin: United States. Seed.

PI 522798 donor id: Cili 828. origin: Canada. cultivar: ROYAL.  
Seed.

PI 522799 donor id: Cili 829. origin: United States. pedigree:  
CHINESE COMMERCIAL. Seed.

PI 522800 donor id: Cili 831. origin: United States. pedigree:  
SEL OF CI 161 (NAT HYBRID). Seed.

PI 522801 donor id: Cili 832. origin: United States. pedigree:  
SEL OF CI 161 (NAT HYBRID). Seed.

PI 522802 donor id: Cili 833. origin: United States. pedigree:  
SEL OF CI 161 (NAT HYBRID). Seed.

PI 522803 donor id: Cili 834. origin: United States. pedigree:  
SEL OF CI 161 (NAT HYBRID). Seed.

PI 522804 donor id: Cili 835. origin: United States. pedigree:  
SEL OF CI 161 (NAT HYBRID). Seed.

PI 522805 donor id: Cili 836. origin: United States. cultivar:  
LEONA. Seed.

PI 522806 donor id: Cili 837. origin: United States. pedigree:  
SEL NEWLAND X BISON. Seed.

PI 522807 donor id: Cili 839. origin: United States. cultivar:  
RENEW. Seed.

PI 522808 donor id: Cili 840. origin: United States. pedigree: DP  
X LINO GRANDE. Seed.

PI 522809 donor id: Cili 841. origin: United States. pedigree:  
SEL (19 X 112E) X BISON. Seed.

PI 522810 donor id: Cili 842. origin: United States. cultivar:  
KOTO. Seed.

PI 522811 donor id: Cili 843. origin: United States. pedigree:  
SEL 19 X 112. Seed.

PI 522812 donor id: Cili 845. origin: United States. pedigree:  
SEL BUDA X (19 X 112). Seed.

PI 522539 to 523982-continued

- PI 522813 donor id: Cili 846. origin: United States. cultivar: SEL BUDA X (19 X 112). Seed.
- PI 522814 donor id: Cili 847. origin: United States. pedigree: SEL 176 X 919 X 112). Seed.
- PI 522815 donor id: Cili 848. origin: United States. pedigree: SEL RIO X BUDA. Seed.
- PI 522816 donor id: Cili 849. origin: United States. pedigree: SEL RIO X BUDA. Seed.
- PI 522817 donor id: Cili 850. origin: United States. pedigree: SEL RIO X BUDA. Seed.
- PI 522818 donor id: Cili 852. origin: United States. pedigree: SEL OF CI 742. Seed.
- PI 522819 donor id: Cili 853. origin: United States. pedigree: SEL OF AGR 1-2-70. Seed.
- PI 522820 donor id: Cili 854. origin: United States. pedigree: SEL H10-2-59-3:19X(19X19)X112. Seed.
- PI 522821 donor id: Cili 855. origin: United States. pedigree: SEL OF CI 115. Seed.
- PI 522822 donor id: Cili 858. origin: Turkey. cultivar: ISPAYTI. Seed.
- PI 522823 donor id: Cili 860. origin: Turkey. cultivar: MILAS. Seed.
- PI 522824 donor id: Cili 864. origin: Turkey. cultivar: ARMAS. Seed.
- PI 522825 donor id: Cili 868. origin: Argentina. pedigree: LINO 6899 M A. Seed.
- PI 522826 donor id: Cili 869. origin: Argentina. cultivar: KLEIN NO 11. Seed.
- PI 522827 donor id: Cili 870. origin: Argentina. pedigree: SEL 22450/30. Seed.
- PI 522828 donor id: Cili 871. origin: Argentina. cultivar: LINETA. Seed.
- PI 522829 donor id: Cili 872. origin: Argentina. cultivar: MALABRIGO. Seed.



PI 522539 to 523982-continued

PI 522830 donor id: Cili 873. origin: United States. cultivar: BUDA 80. Seed.

PI 522831 donor id: Cili 874. origin: United States. pedigree: NO 5012 - 1937. Seed.

PI 522832 donor id: Cili 875. origin: United States. pedigree: NO 5060 -1937. Seed.

PI 522833 donor id: Cili 876. origin: United States. pedigree: NO 5066 - 1377. Seed.

PI 522834 donor id: Cili 877. origin: United States. pedigree: NO 5310 - 1937. Seed.

PI 522835 donor id: Cili 878. origin: United States. pedigree: NO 5242 - 1937. Seed.

PI 522836 donor id: Cili 880. origin: Canada. cultivar: J W S. Seed.

PI 522837 donor id: Cili 881. origin: Canada. cultivar: CIRRUS. Seed.

PI 522838 donor id: Cili 890. origin: United States. Seed.

PI 522839 donor id: Cili 891. origin: United States. pedigree: SEL BUDA X (19 X 112). Seed.

PI 522840 donor id: Cili 893. origin: United States. pedigree: SEL BUDA X (19 X 112 0). Seed.

PI 522841 donor id: Cili 894. origin: United States. pedigree: SEL BUDA X (19 X 112). Seed.

PI 522842 donor id: Cili 895. origin: United States. pedigree: SEL OF H1-1-51-2. Seed.

PI 522843 donor id: Cili 896. origin: United States. pedigree: SEL OF (19X 112) X 19. Seed.

PI 522844 donor id: Cili 897. origin: United States. pedigree: SEL OF CI 385. Seed.

PI 522845 donor id: Cili 898. origin: United States. pedigree: SEL OF AGR 1-25-70. Seed.

PI 522846 donor id: Cili 899. origin: United States. pedigree: NAT HYBRID OF REWING. Seed.

PI 522847 donor id: Cili 900. origin: United States. pedigree: NO 06773-1938. Seed.

PI 522539 to 523982-continued

PI 522848	donor id: Cili 902. 7066 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522849	donor id: Cili 903. 07072-1938. Seed.	origin: United States.	pedigree: NO
PI 522850	donor id: Cili 904. 6489 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522851	donor id: Cili 905. 7082 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522852	donor id: Cili 906. 7341 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522853	donor id: Cili 907. NO6052 - 1938. Seed.	origin: United States.	pedigree:
PI 522854	donor id: Cili 908. 6156 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522855	donor id: Cili 909. 6566 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522856	donor id: Cili 910. 6634 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522857	donor id: Cili 911. 6821 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522858	donor id: Cili 912. 6626 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522859	donor id: Cili 913. 7126 - 1938. Seed.	origin: United States.	pedigree: NO
PI 522860	donor id: Cili 914. II-29-1 BISON X REDWING. Seed.	origin: United States.	pedigree:
PI 522861	donor id: Cili 916.	origin: United States.	Seed.
PI 522862	donor id: Cili 918. II-29-9 BISON X REDWING. Seed.	origin: United States.	pedigree:
PI 522863	donor id: Cili 919. II-29-20. Seed.	origin: United States.	pedigree:
PI 522864	donor id: Cili 920. AVON. Seed.	origin: United States.	cultivar:
PI 522865	donor id: Cili 922. BISON X ABY YELLOW. Seed.	origin: United States.	pedigree:

PI 522539 to 523982-continued

PI 522866	donor id: Cili 924. BISON X ABY YELLOW.	origin: United States. Seed.	pedigree:
PI 522867	donor id: Cili 925. BISON X ABY YELLOW.	origin: United States. Seed.	pedigree:
PI 522868	donor id: Cili 926. BISON X ABY YELLOW.	origin: United States. Seed.	pedigree:
PI 522869	donor id: Cili 927. SEL 2 RIO X CI 36 F7.	origin: United States. Seed.	pedigree:
PI 522870	donor id: Cili 928. SEL 7 RIO X CI 36 F7.	origin: United States. Seed.	pedigree:
PI 522871	donor id: Cili 929. SEL 3 BISON X CI 36 F7.	origin: United States. Seed.	pedigree:
PI 522872	donor id: Cili 931. SEL 7 1935 X CI 36 F7.	origin: United States. Seed.	pedigree:
PI 522873	donor id: Cili 933. SEL 2 1935 CI 36 X BISON F7.	origin: United States. Seed.	pedigree:
PI 522874	donor id: Cili 934. SEL 4 1935 CI 36 X BISON F7.	origin: United States. Seed.	pedigree:
PI 522875	donor id: Cili 935. SEL 7 1935 CI 36 X BISON F7.	origin: United States. Seed.	pedigree:
PI 522876	donor id: Cili 936. SEL 8 1935 CI 36 X BISON F7.	origin: United States. Seed.	pedigree:
PI 522877	donor id: Cili 937. SEL 2 1935 CI 36 X BISON F8.	origin: United States. Seed.	pedigree:
PI 522878	donor id: Cili 939. 300 X 355.	origin: United States. Seed.	pedigree: CI
PI 522879	donor id: Cili 940. 300 X 355 F8.	origin: United States. Seed.	pedigree: CI
PI 522880	donor id: Cili 941. 300 X 355 F8.	origin: United States. Seed.	pedigree: CI
PI 522881	donor id: Cili 942. 300 X 355 F8.	origin: United States. Seed.	pedigree: CI
PI 522882	donor id: Cili 943. ARGENTINE CI 342 X B	origin: United States. GOLDEN. Seed.	pedigree:

PI 522539 to 523982-continued

PI 522883	donor id: Cili 946.	origin: United States.	pedigree: CI
	342 X 644 F8 SEL 6.	Seed.	
PI 522884	donor id: Cili 947.	origin: United States.	pedigree: CI
	342 X 644 F8 SEL 7.	Seed.	
PI 522885	donor id: Cili 948.	origin: United States.	pedigree: B
	GOLDEN X REDWING (644X320)F8.	Seed.	
PI 522886	donor id: Cili 949.	origin: United States.	pedigree: B
	GOLDEN X REDWING (644X320)F8.	Seed.	
PI 522887	donor id: Cili 950.	origin: United States.	pedigree: B
	GOLDEN X REDWING (644X320)F8.	Seed.	
PI 522888	donor id: Cili 951.	origin: United States.	pedigree: B
	GOLDEN X REDWING (644X320)F8.	Seed.	
PI 522889	donor id: Cili 952.	origin: United States.	pedigree: B
	GOLDEN X REDWING (PINK).	Seed.	
PI 522890	donor id: Cili 953.	origin: United States.	pedigree: B
	GOLDEN X REDWING (644X320)F8.	Seed.	
PI 522891	donor id: Cili 954.	origin: United States.	pedigree: B
	GOLDEN X REDWING (644X320)F8.	Seed.	
PI 522892	donor id: Cili 955.	origin: United States.	pedigree: B
	GOLDEN X REDWING (644X320)F8.	Seed.	
PI 522893	donor id: Cili 956.	origin: United States.	pedigree: B
	GOLDEN X BISON (644 X 389).	Seed.	
PI 522894	donor id: Cili 958.	origin: United States.	pedigree: B
	GOLDEN X BISON (644 X 389).	Seed.	
PI 522895	donor id: Cili 959.	origin: United States.	pedigree: B
	GOLDEN X BISON (644 X 389).	Seed.	
PI 522896	donor id: Cili 960.	origin: United States.	pedigree: B
	GOLDEN X BISON (644 X 389).	Seed.	
PI 522897	donor id: Cili 961.	origin: United States.	pedigree: B
	GOLDEN X BISON (644 X 389).	Seed.	
PI 522898	donor id: Cili 962.	origin: United States.	pedigree: B
	GOLDEN X BISON (644 X 389).	Seed.	
PI 522899	donor id: Cili 963.	origin: United States.	pedigree: B
	GOLDEN X BISON (644 X 389).	Seed.	

PI 522539 to 523982-continued

PI 522900 donor id: Cili 964. origin: United States. pedigree: B  
GOLDEN X BISON (644 X 389). Seed.

PI 522901 donor id: Cili 965. origin: United States. pedigree:  
BUDA X BISON. Seed.

PI 522902 donor id: Cili 966. origin: United States. pedigree:  
BUDA X BISON. Seed.

PI 522903 donor id: Cili 967. origin: United States. pedigree:  
BISON X RIO. Seed.

PI 522904 donor id: Cili 968. origin: United States. pedigree:  
BISON X RIO. Seed.

PI 522905 donor id: Cili 970. origin: United States. cultivar:  
REDSON. Seed.

PI 522906 donor id: Cili 971. origin: United States. pedigree:  
BISON X REDWING II-29-8. Seed.

PI 522907 donor id: Cili 973. origin: United States. pedigree:  
BISON X REDWING II-29-17. Seed.

PI 522908 donor id: Cili 975. origin: United States. pedigree:  
BISON X 479 II-30-52. Seed.

PI 522909 donor id: Cili 976. origin: United States. pedigree:  
SEL B GOLDEN R557. Seed.

PI 522910 donor id: Cili 978. origin: United States. Seed.

PI 522911 donor id: Cili 979. origin: United States. Seed.

PI 522912 donor id: Cili 980. origin: United States. cultivar:  
B5128. Seed.

PI 522913 donor id: Cili 981. origin: United States. cultivar:  
VIKING. Seed.

PI 522914 donor id: Cili 982. origin: United States. cultivar:  
CRYSTAL. Seed.

PI 522915 donor id: Cili 983. origin: United States. Seed.

PI 522916 donor id: Cili 984. origin: United States. pedigree:  
BISON X 649 II-31-2. Seed.

PI 522917 donor id: Cili 986. origin: United States. Seed.

PI 522918 donor id: Cili 995. origin: United States. pedigree:  
BISON X 387-1 II-31-13. Seed.

PI 522539 to 523982-continued

PI 522919 donor id: Cili 1002. origin: Argentina. cultivar: DE  
SANARE. Seed.

PI 522920 donor id: Cili 1003. origin: Argentina. cultivar:  
LINETA Z 195. Seed.

PI 522921 donor id: Cili 1005. origin: Argentina. pedigree:  
ITALIA ROMA/CI 1005-2. Seed.

PI 522922 donor id: Cili 1006. origin: Germany. cultivar: EWIGEN  
180. Seed.

PI 522923 donor id: Cili 1007. origin: Germany. pedigree: PS  
1600. Seed.

PI 522924 donor id: Cili 1009. origin: Germany. pedigree: CI-1.  
Seed.

PI 522925 donor id: Cili 1010. origin: Germany. cultivar: EWIGEN  
100. Seed.

PI 522926 donor id: Cili 1011. origin: United States. cultivar:  
INDIAN 12-12. Seed.

PI 522927 donor id: Cili 1012. origin: Afghanistan. cultivar:  
MAIMANA. Seed.

PI 522928 donor id: Cili 1013. origin: Afghanistan. cultivar:  
TASH. Seed.

PI 522929 donor id: Cili 1014. origin: United States. Seed.

PI 522930 donor id: Cili 1015. origin: Portugal. pedigree:  
CREPITANS (PRIMAVERA E112). Seed.

PI 522931 donor id: Cili 1017. origin: Portugal. pedigree:  
CREPITANS (GALEGO E 324). Seed.

PI 522932 donor id: Cili 1018. origin: Portugal. pedigree:  
CREPITANS (GALEGO E 729). Seed.

PI 522933 donor id: Cili 1019. origin: Portugal. pedigree:  
CREPITANS (MOURISCO E 730). Seed.

PI 522934 donor id: Cili 1020. origin: Portugal. pedigree:  
CREPITANS (ABERTICO E 978). Seed.

PI 522935 donor id: Cili 1021. origin: Portugal. pedigree: MED  
TYPE (MOURISCO E 1772). Seed.

PI 522936 donor id: Cili 1022. origin: Canada. Seed.

PI 522539 to 523982-continued

PI 522937 donor id: Cili 1023. origin: Canada. Seed.

PI 522938 donor id: Cili 1024. origin: Canada. Seed.

PI 522939 donor id: Cili 1026. origin: United States. pedigree:  
NEWLAND X E 19/. Seed.

PI 522940 donor id: Cili 1027. origin: United States. cultivar:  
ZENITH. Seed.

PI 522941 donor id: Cili 1028. origin: United States. pedigree:  
(E19 X 112) X BISON. Seed.

PI 522942 donor id: Cili 1029. origin: United States. pedigree:  
(19 X 112) X BISON. Seed.

PI 522943 donor id: Cili 1030. origin: United States. pedigree:  
NEWLAND X (19 X 112). Seed.

PI 522944 donor id: Cili 1031. origin: United States. cultivar:  
NEWBUD. Seed.

PI 522945 donor id: Cili 1032. origin: United States. pedigree:  
NURS 38-2205. Seed.

PI 522946 donor id: Cili 1033. origin: Turkey. Seed.

PI 522947 donor id: Cili 1034. origin: United States. pedigree:  
CI 355 X BISON. Seed.

PI 522948 donor id: Cili 1035. origin: United States. pedigree:  
CI 355 X BISON. Seed.

PI 522949 donor id: Cili 1036. origin: United States. pedigree:  
CI 355 X BISON. Seed.

PI 522950 donor id: Cili 1037. origin: United States. pedigree:  
CI 355 X BISON. Seed.

PI 522951 donor id: Cili 1038. origin: United States. pedigree:  
CI 355 X BISON. Seed.

PI 522952 donor id: Cili 1039. origin: United States. pedigree:  
CI 355 X BISON. Seed.

PI 522953 donor id: Cili 1040. origin: United States. pedigree:  
CI 355 X BISON. Seed.

PI 522954 donor id: Cili 1041. origin: United States. pedigree:  
CI 355 X BISON. Seed.

PI 522955 donor id: Cili 1042. origin: United States. Seed.

PI 522539 to 523982-continued

PI 522956 donor id: Cili 1043. origin: United States. pedigree: SEL E6-1 J W S X BISON. Seed.

PI 522957 donor id: Cili 1046. origin: United States. pedigree: BOLLEY SE 5615. Seed.

PI 522958 donor id: Cili 1047. origin: United States. pedigree: 291-27X SMOKEY GOLDEN B41-2603. Seed.

PI 522959 donor id: Cili 1048. origin: United States. pedigree: ARG 404 X BISON B41-2760. Seed.

PI 522960 donor id: Cili 1049. origin: United States. pedigree: J W S X BISON (E 6-3-1). Seed.

PI 522961 donor id: Cili 1050. origin: United States. pedigree: 76 X BUDA 80. Seed.

PI 522962 donor id: Cili 1051. origin: United States. pedigree: KOTO X REDWING SEL 4014. Seed.

PI 522963 donor id: Cili 1052. origin: United States. pedigree: KOTO X REDWING SEL 4025. Seed.

PI 522964 donor id: Cili 1053. origin: United States. pedigree: KOTO X RENEW SEL 4028. Seed.

PI 522965 donor id: Cili 1054. origin: United States. pedigree: KOTO X BUDA 80 SEL 4031. Seed.

PI 522966 donor id: Cili 1055. origin: United States. pedigree: SIB OF KOTO. Seed.

PI 522967 donor id: Cili 1056. origin: United States. pedigree: CI 679 X BISON (II-33-P45). Seed.

PI 522968 donor id: Cili 1057. origin: United States. pedigree: CI 679 X BISON (II-33-P51). Seed.

PI 522969 donor id: Cili 1058. origin: United States. pedigree: CI 679 X BISON (II-33-P58). Seed.

PI 522970 donor id: Cili 1059. origin: Canada. cultivar: LIRAL DOMINION. Seed.

PI 522971 donor id: Cili 1060. origin: United States. Seed.

PI 522972 donor id: Cili 1061. origin: United States. cultivar: CIRBUS. Seed.

PI 522973 donor id: Cili 1064. origin: United States. pedigree: KOTO X BISON F4 (D40-8). Seed.



PI 522539 to 523982-continued

PI 522974 donor id: Cili 1065. origin: United States. pedigree: KOTO X REDWING F4 (D40-18). Seed.

PI 522975 donor id: Cili 1066. origin: United States. pedigree: KOTO X RENEW F4 (D40-27). Seed.

PI 522976 donor id: Cili 1067. origin: United States. pedigree: KOTO X RENEW F4 (D40-30). Seed.

PI 522977 donor id: Cili 1068. origin: United States. pedigree: RENEW X BISON F4 (D40-10). Seed.

PI 522978 donor id: Cili 1069. origin: United States. Seed.

PI 522979 donor id: Cili 1070. origin: United States. cultivar: ARROW. Seed.

PI 522980 donor id: Cili 1071. origin: United States. cultivar: DAKOTA. Seed.

PI 522981 donor id: Cili 1072. origin: United States. pedigree: BIXON X (BISON X J W S). Seed.

PI 522982 donor id: Cili 1074. origin: United States. cultivar: STAMM NO 8. Seed.

PI 522983 donor id: Cili 1075. origin: United States. Seed.

PI 522984 donor id: Cili 882. origin: Canada. cultivar: LIRAL CROWN. Seed.

PI 522985 donor id: Cili 1076. origin: United States. Seed.

PI 522986 donor id: Cili 1077. origin: United States. pedigree: DIADEN X J W S). Seed.

PI 522987 donor id: Cili 1078. origin: United States. pedigree: SEL 80.29.25. Seed.

PI 522988 donor id: Cili 1079. origin: United States. pedigree: SEL 80.377.4. Seed.

PI 522989 donor id: Cili 1080. origin: United States. pedigree: MINN II-36-P4. Seed.

PI 522990 donor id: Cili 1081. origin: United States. cultivar: MINERVA. Seed.

PI 522991 donor id: Cili 1082. origin: United States. pedigree: 649 X BISON 4 COMP B. Seed.

PI 522539 to 523982-continued

PI 522992 donor id: Cili 1083. origin: United States. cultivar: CUSTER. Seed.

PI 522993 donor id: Cili 1084. origin: United States. pedigree: E40-1-1-1. Seed.

PI 522994 donor id: Cili 1085. origin: United States. pedigree: 86-1-8-3-2. Seed.

PI 522995 donor id: Cili 1086. origin: United States. pedigree: \BOLLEY NO 147. Seed.

PI 522996 donor id: Cili 1087. origin: United States. pedigree: SEL 80-18-10 WALDRON. Seed.

PI 522997 donor id: Cili 1088. origin: United States. pedigree: (BISON X NEWLAND)X(479XBISON). Seed.

PI 522998 donor id: Cili 1089. origin: United States. pedigree: RENEW X BISON F5. Seed.

PI 522999 donor id: Cili 1090. origin: United States. pedigree: RENEW X BISON F5. Seed.

PI 523000 donor id: Cili 1091. origin: United States. pedigree: RENEW X BISON F5. Seed.

PI 523001 donor id: Cili 1092. origin: United States. pedigree: RENEW X BISON F5. Seed.

PI 523002 donor id: Cili 1093. origin: United States. cultivar: RENEW X KOTO F5. Seed.

PI 523003 donor id: Cili 1094. origin: United States. pedigree: KOTO X REDWING F5. Seed.

PI 523004 donor id: Cili 1095. origin: United States. pedigree: KOTO X REDWING F5. Seed.

PI 523005 donor id: Cili 1096. origin: United States. pedigree: KOTO X CI 914. Seed.

PI 523006 donor id: Cili 1097. origin: United States. pedigree: SIB E X 914. Seed.

PI 523007 donor id: Cili 1098. origin: United States. pedigree: OTTAWA 770 X BISON F5. Seed.

PI 523008 donor id: Cili 1099. origin: Argentina. pedigree: KLEIN NO 11. Seed.

PI 522539 to 523982-continued

PI 523009 donor id: Cili 1100. origin: Argentina. pedigree:  
6953/40. Seed.

PI 523010 donor id: Cili 1101. origin: Argentina. pedigree:  
6962/40. Seed.

PI 523011 donor id: Cili 1102. origin: Argentina. pedigree:  
7223/40. Seed.

PI 523012 donor id: Cili 1103. origin: Argentina. pedigree:  
6916/40. Seed.

PI 523013 donor id: Cili 1104. origin: Argentina. pedigree:  
7528/40. Seed.

PI 523014 donor id: Cili 1105. origin: Argentina. pedigree:  
7167/40. Seed.

PI 523015 donor id: Cili 1106. origin: Argentina. pedigree:  
6925/40. Seed.

PI 523016 donor id: Cili 1108. origin: Uruguay. pedigree: NO  
84-1. Seed.

PI 523017 donor id: Cili 1109. origin: Uruguay. cultivar:  
REPETIBLE 117. Seed.

PI 523018 donor id: Cili 1110. origin: Uruguay. cultivar: AR.  
Seed.

PI 523019 donor id: Cili 1111. origin: Uruguay. pedigree: NO 204.  
Seed.

PI 523020 donor id: Cili 1112. origin: United States. pedigree:  
ARGENTINE SEL G5. Seed.

PI 523021 donor id: Cili 1113. origin: United States. pedigree:  
PUNJAB SEL G18. Seed.

PI 523022 donor id: Cili 1114. origin: United States. cultivar:  
IMPERIAL. Seed.

PI 523023 donor id: Cili 1115. origin: United States. cultivar:  
PUNJAB 47. Seed.

PI 523024 donor id: Cili 1116. origin: United States. pedigree:  
CI 975 X 1073. Seed.

PI 523025 donor id: Cili 1117. origin: United States. pedigree:  
CRYSTAL X REDSON (II-41-2). Seed.

PI 522539 to 523982-continued

PI 523026 donor id: Cili 1118. origin: United States. pedigree: CI 980 X REDSON (II-41-5). Seed.

PI 523027 donor id: Cili 1119. origin: United States. pedigree: BIWING X CI 980 (II-40-40). Seed.

PI 523028 donor id: Cili 1125. origin: United States. pedigree: VIKING X (BISON X RIO)(W18-36). Seed.

PI 523029 donor id: Cili 1120. origin: United States. pedigree: SHEYENNE X 975 F3 (W18-34). Seed.

PI 523030 donor id: Cili 1121. origin: United States. pedigree: (BISON X JWS)X1073 (W17-8-7). Seed.

PI 523031 donor id: Cili 1122. origin: United States. pedigree: (BISON X JWS) X 1073 (W17-9-2). Seed.

PI 523032 donor id: Cili 1123. origin: United States. pedigree: (BISON X JWS)X 1037 (W17-22-1). Seed.

PI 523033 donor id: Cili 1126. origin: United States. pedigree: SHEYENNE X CI 975. Seed.

PI 523034 donor id: Cili 1127. origin: United States. pedigree: II-36-P254. Seed.

PI 523035 donor id: Cili 1128. origin: United States. Seed.

PI 523036 donor id: Cili 1129. origin: Sweden. cultivar: ATLAS (FIBER). Seed.

PI 523037 donor id: Cili 1134. origin: United States. pedigree: (J W S X BISON) SHEYENNE. Seed.

PI 523038 donor id: Cili 1130. origin: United States. cultivar: REDWOOD. Seed.

PI 523039 donor id: Cili 1131. origin: United States. pedigree: BIWING X CI 980 (II-40-33). Seed.

PI 523040 donor id: Cili 1132. origin: United States. pedigree: BIWING X CI 980 (II-40-41). Seed.

PI 523041 donor id: Cili 1133. origin: Canada. cultivar: ROCKET. Seed.

PI 523042 donor id: Cili 1136. origin: United States. pedigree: (644 X 1049) X SHEYENNE. Seed.

PI 523043 donor id: Cili 1137. origin: United States. pedigree: VICTORY SEL 3254. Seed.

PI 522539 to 523982-continued

- PI 523044 donor id: Cili 1138. origin: United States. pedigree: VICTORY SEL 3255. Seed.
- PI 523045 donor id: Cili 1139. origin: United States. pedigree: BIWING X CI 980 (II-40-32). Seed.
- PI 523046 donor id: Cili 1141. origin: United States. pedigree: BIWING X CI 980 (II-40-35). Seed.
- PI 523047 donor id: Cili 1142. origin: United States. pedigree: BUDA X J W S. Seed.
- PI 523048 donor id: Cili 1144. origin: Germany. cultivar: SORAUER 65. Seed.
- PI 523049 donor id: Cili 1145. origin: Germany. cultivar: DAHLEM. Seed.
- PI 523050 donor id: Cili 1146. origin: Germany. cultivar: ECKENDORF. Seed.
- PI 523051 donor id: Cili 1147. origin: Germany. cultivar: LUSATIA. Seed.
- PI 523052 donor id: Cili 1148. origin: United States. pedigree: CI 975 X SHEYENNE. Seed.
- PI 523053 donor id: Cili 1149. origin: Iran. cultivar: TOMAGAON. Seed.
- PI 523054 donor id: Cili 1151. origin: Iran. cultivar: SAIDABAD. Seed.
- PI 523055 donor id: Cili 1152. origin: United States. cultivar: MARITIME. Seed.
- PI 523056 donor id: Cili 1153. origin: United States. pedigree: CI 975 X 1116. Seed.
- PI 523057 donor id: Cili 1154. origin: United States. pedigree: CRYSTAL X REDSON (II-41-23). Seed.
- PI 523058 donor id: Cili 1155. origin: United States. pedigree: CRYSTAL X REDSON (II-41-25). Seed.
- PI 523059 donor id: Cili 1156. origin: United States. cultivar: DEANZA. Seed.
- PI 523060 donor id: Cili 1157. origin: United States. pedigree: ARGENTINE 463 X CI 975. Seed.

PI 522539 to 523982-continued

- PI 523061 donor id: Cili 1158. origin: United States. pedigree: ARGENTINE 463 X CI 975. Seed.
- PI 523062 donor id: Cili 1159. origin: United States. pedigree: ARGENTINE 462 X CI 1008. Seed.
- PI 523063 donor id: Cili 1160. origin: United States. pedigree: ARGENTINE 462 X CI 1008. Seed.
- PI 523064 donor id: Cili 1161. origin: Canada. pedigree: C S 5 X REDWING. Seed.
- PI 523065 donor id: Cili 1163. origin: United States. pedigree: MULTIPLE CROSS (II-36-P321). Seed.
- PI 523066 donor id: Cili 1164. origin: United States. pedigree: (ARG191XBISON>)X(FIKINGXBISON). Seed.
- PI 523067 donor id: Cili 1166. origin: Canada. pedigree: ARG 8C X B GOLDEN. Seed.
- PI 523068 donor id: Cili 1167. origin: Canada. pedigree: B GOLDEN X OTTAWA. Seed.
- PI 523069 donor id: Cili 1168. origin: Brazil. pedigree: L H 26. Seed.
- PI 523070 donor id: Cili 1169. origin: Brazil. cultivar: MINVANO. Seed.
- PI 523071 donor id: Cili 1170. origin: United States. cultivar: VICTORY A. Seed.
- PI 523072 donor id: Cili 1171. origin: United States. cultivar: VICTORY B. Seed.
- PI 523073 donor id: Cili 1172. origin: United States. cultivar: VICTORY C. Seed.
- PI 523074 donor id: Cili 1173. origin: United States. cultivar: VICTORY D. Seed.
- PI 523075 donor id: Cili 1177. origin: United States. pedigree: VICTORY SEL NO 3371. Seed.
- PI 523076 donor id: Cili 1178. origin: United States. pedigree: NO 01276. Seed.
- PI 523077 donor id: Cili 1174. origin: Canada. pedigree: C A N 56-3894A. Seed.

PI 522539 to 523982-continued

PI 523078 donor id: Cili 1175. origin: Canada. pedigree: C A N  
67-3901B. Seed.

PI 523079 donor id: Cili 1176. origin: United States. cultivar:  
NORLAND. Seed.

PI 523080 donor id: Cili 1179. origin: United States. pedigree:  
NO 1234. Seed.

PI 523081 donor id: Cili 1180. origin: United States. cultivar:  
BURKE. Seed.

PI 523082 donor id: Cili 1181. origin: United States. cultivar:  
WARD. Seed.

PI 523083 donor id: Cili 1182. origin: United States. cultivar:  
CASS. Seed.

PI 523084 donor id: Cili 1183. origin: United States. pedigree: B  
GOLDEN SEL B. Seed.

PI 523085 donor id: Cili 1184. origin: United States. cultivar:  
BOWMAN. Seed.

PI 523086 donor id: Cili 1185. origin: United States. pedigree:  
389 X 1005-2. Seed.

PI 523087 donor id: Cili 1186. origin: United States. pedigree:  
389X1005-2. Seed.

PI 523088 donor id: Cili 1187. origin: United States. pedigree:  
112 X 389. Seed.

PI 523089 donor id: Cili 1188. origin: United States. cultivar:  
CLAY. Seed.

PI 523090 donor id: Cili 1189. origin: United States. pedigree:  
112 X 389. Seed.

PI 523091 donor id: Cili 1190. origin: United States. cultivar:  
BARNES. pedigree: CI 438-1-1-1. Seed.

PI 523092 donor id: Cili 1191. origin: United States. cultivar:  
POLK. pedigree: (389 X 1171). Seed.

PI 523093 donor id: Cili 1193. origin: United States. cultivar:  
WILDEN. pedigree: (389 X 25-8-1). Seed.

PI 523094 donor id: Cili 1194. origin: United States. cultivar:  
GRANT. pedigree: (389 X 333-1-11-1-3). Seed.

PI 522539 to 523982-continued

PI 523095	donor id: Cili 1196. RIOS. Seed.	origin: Argentina.	cultivar: ENTRE
PI 523096	donor id: Cili 1197. 114. Seed.	origin: Argentina.	cultivar: BUCK
PI 523097	donor id: Cili 1198. 3. Seed.	origin: Argentina.	cultivar: BUCK
PI 523098	donor id: Cili 1199. BENVENUTO. Seed.	origin: Argentina.	cultivar:
PI 523099	donor id: Cili 1200. QUERANDI M A. Seed.	origin: Argentina.	cultivar:
PI 523100	donor id: Cili 1201. PREVISION. Seed.	origin: Argentina.	cultivar: LA
PI 523101	donor id: Cili 1202. FARROUPILLIA. Seed.	origin: Brazil.	cultivar:
PI 523102	donor id: Cili 1203. Seed.	origin: Brazil.	cultivar: CAXIAS.
PI 523103	donor id: Cili 1204. CAMPOAZUL. Seed.	origin: Brazil.	cultivar:
PI 523104	donor id: Cili 1205. Seed.	origin: Brazil.	cultivar: VIAMOO.
PI 523105	donor id: Cili 1206. PERGAMINO 6808-1. Seed.	origin: Argentina.	pedigree:
PI 523106	donor id: Cili 1208. PERGAMINO 6962-1. Seed.	origin: Argentina.	pedigree:
PI 523107	donor id: Cili 1209. PERGAMINO 6962-2. Seed.	origin: Argentina.	pedigree:
PI 523108	donor id: Cili 1210.	origin: Argentina.	Seed.
PI 523109	donor id: Cili 1211. PERGAMINO 7223-4. Seed.	origin: Argentina.	pedigree:
PI 523110	donor id: Cili 1212. 10E 10495/46. Seed.	origin: Argentina.	pedigree: KLEIN
PI 523111	donor id: Cili 1213. 13L 10495/46. Seed.	origin: Argentina.	pedigree: KLEIN
PI 523112	donor id: Cili 1214. 18 10493/46. Seed.	origin: Argentina.	pedigree: KLEIN



PI 522539 to 523982-continued

PI 523113	donor id: Cili 1215. origin: Argentina. pedigree: LA PREVISION 18 10499/46. Seed.
PI 523114	donor id: Cili 1216. origin: Argentina. cultivar: BUCK 113. pedigree: 10500/46. Seed.
PI 523115	donor id: Cili 1217. origin: Argentina. pedigree: 330 M A 10497/46. Seed.
PI 523116	donor id: Cili 1218. origin: Argentina. cultivar: BUCK 2. pedigree: 10510/46. Seed.
PI 523117	donor id: Cili 1219. origin: Argentina. pedigree: BENV REAL 10504/46. Seed.
PI 523118	donor id: Cili 1220. origin: Argentina. pedigree: 10382/46. Seed.
PI 523119	donor id: Cili 1221. origin: Argentina. pedigree: 10383/46. Seed.
PI 523120	donor id: Cili 1222. origin: Argentina. pedigree: \10384/46. Seed.
PI 523121	donor id: Cili 1223. origin: Argentina. pedigree: 10385/46. Seed.
PI 523122	donor id: Cili 1224. origin: Argentina. pedigree: 10386/46. Seed.
PI 523123	donor id: Cili 1225. origin: Argentina. pedigree: 10387/46. Seed.
PI 523124	donor id: Cili 1226. origin: Argentina. pedigree: 10388/46. Seed.
PI 523125	donor id: Cili 1227. origin: Argentina. pedigree: 10389/46. Seed.
PI 523126	donor id: Cili 1228. origin: Argentina. pedigree: 10390/46. Seed.
PI 523127	donor id: Cili 1229. origin: Argentina. pedigree: 10391/46. Seed.
PI 523128	donor id: Cili 1230. origin: Argentina. pedigree: 10392/46. Seed.
PI 523129	donor id: Cili 1231. origin: Argentina. pedigree: 10393/56. Seed.

PI 522539 to 523982-continued

PI 523130	donor id: Cili 1232. 10394/46. Seed.	origin: Argentina.	pedigree:
PI 523131	donor id: Cili 1233. 10395/46. Seed.	origin: Argentina.	cultivar:
PI 523132	donor id: Cili 1234. 10396/46. Seed.	origin: Argentina.	pedigree:
PI 523133	donor id: Cili 1235. 10397/46. Seed.	origin: Argentina.	pedigree:
PI 523134	donor id: Cili 1236. 10398/46. Seed.	origin: Argentina.	pedigree:
PI 523135	donor id: Cili 1237. 10399/46. Seed.	origin: Argentina.	pedigree:
PI 523136	donor id: Cili 1238. 10400/46. Seed.	origin: Argentina.	pedigree:
PI 523137	donor id: Cili 1239. 10401/46. Seed.	origin: Argentina.	pedigree:
PI 523138	donor id: Cili 1240. 10402/46. Seed.	origin: Argentina.	pedigree:
PI 523139	donor id: Cili 1241. 10403/46. Seed.	origin: Argentina.	pedigree:
PI 523140	donor id: Cili 1242. 10404/46. Seed.	origin: Argentina.	pedigree:
PI 523141	donor id: Cili 1243. 10405/46. Seed.	origin: Argentina.	pedigree:
PI 523142	donor id: Cili 1244. 10406/46. Seed.	origin: Argentina.	pedigree:
PI 523143	donor id: Cili 1245. 10407/46. Seed.	origin: Argentina.	pedigree:
PI 523144	donor id: Cili 1246. 10408/46. Seed.	origin: Argentina.	pedigree:
PI 523145	donor id: Cili 1247. 10409/46. Seed.	origin: Argentina.	pedigree:
PI 523146	donor id: Cili 1248. 10410/46. Seed.	origin: Argentina.	pedigree:

PI 522539 to 523982-continued

PI 523147	donor id: Cili 1249. 10411/46. Seed.	origin: Argentina.	pedigree:
PI 523148	donor id: Cili 1250. 10412/46. Seed.	origin: Argentina.	pedigree:
PI 523149	donor id: Cili 1251. 10413/46. Seed.	origin: Argentina.	pedigree:
PI 523150	donor id: Cili 1252. 10414/46. Seed.	origin: Argentina.	pedigree:
PI 523151	donor id: Cili 1253. 10415/46. Seed.	origin: Argentina.	pedigree:
PI 523152	donor id: Cili 1254. 10416/46. Seed.	origin: Argentina.	pedigree:
PI 523153	donor id: Cili 1255. 10417/46. Seed.	origin: Argentina.	pedigree:
PI 523154	donor id: Cili 1256. 10418/46. Seed.	origin: Argentina.	pedigree:
PI 523155	donor id: Cili 1257. 10419/46. Seed.	origin: Argentina.	pedigree:
PI 523156	donor id: Cili 1258. 10421/46. Seed.	origin: Argentina.	pedigree:
PI 523157	donor id: Cili 1259. 10422/46. Seed.	origin: Argentina.	pedigree:
PI 523158	donor id: Cili 1261. 10425/46. Seed.	origin: Argentina.	pedigree:
PI 523159	donor id: Cili 1262. 10426/46. Seed.	origin: Argentina.	pedigree:
PI 523160	donor id: Cili 1263. 10427/46. Seed.	origin: Argentina.	pedigree:
PI 523161	donor id: Cili 1264. 10428/46. Seed.	origin: Argentina.	pedigree:
PI 523162	donor id: Cili 1265. 10430/46. Seed.	origin: Argentina.	pedigree:
PI 523163	donor id: Cili 1266. 10431/46. Seed.	origin: Argentina.	pedigree:

PI 522539 to 523982-continued

PI 523164	donor id: Cili 1267. 10433/46. Seed.	origin: Argentina.	pedigree:
PI 523165	donor id: Cili 1268. 10434/46. Seed.	origin: Argentina.	pedigree:
PI 523166	donor id: Cili 1269. 10435/46. Seed.	origin: Argentina.	pedigree:
PI 523167	donor id: Cili 1270. 10436/46. Seed.	origin: Argentina.	pedigree:
PI 523168	donor id: Cili 1271. 10437/46. Seed.	origin: Argentina.	pedigree:
PI 523169	donor id: Cili 1272.	origin: United States.	Seed.
PI 523170	donor id: Cili 1273. 10439/46. Seed.	origin: Argentina.	pedigree:
PI 523171	donor id: Cili 1274. 10440/46. Seed.	origin: Argentina.	pedigree:
PI 523172	donor id: Cili 1275. 10441/46. Seed.	origin: Argentina.	pedigree:
PI 523173	donor id: Cili 1276. 10442/46. Seed.	origin: Argentina.	pedigree:
PI 523174	donor id: Cili 1277. 10443/46. Seed.	origin: Argentina.	pedigree:
PI 523175	donor id: Cili 1278. 10444/46. Seed.	origin: Argentina.	pedigree:
PI 523176	donor id: Cili 1279. 10445/46. Seed.	origin: Argentina.	pedigree:
PI 523177	donor id: Cili 1280. 10446/46. Seed.	origin: Argentina.	pedigree:
PI 523178	donor id: Cili 1281. 10447/46. Seed.	origin: Argentina.	pedigree:
PI 523179	donor id: Cili 1282. 10449/46. Seed.	origin: Argentina.	pedigree:
PI 523180	donor id: Cili 1283. 10451/46. Seed.	origin: Argentina.	pedigree:
PI 523181	donor id: Cili 1284. 10452/46. Seed.	origin: Argentina.	pedigree:

PI 522539 to 523982-continued

PI 523182	donor id: Cili 1285. 10453/46. Seed.	origin: Argentina.	pedigree:
PI 523183	donor id: Cili 1287. 10455/46. Seed.	origin: Argentina.	pedigree:
PI 523184	donor id: Cili 1288. 10456/46. Seed.	origin: Argentina.	pedigree:
PI 523185	donor id: Cili 1289. 10457/46. Seed.	origin: Argentina.	pedigree:
PI 523186	donor id: Cili 1290. 10458/46. Seed.	origin: Argentina.	pedigree:
PI 523187	donor id: Cili 1291. 10459/46. Seed.	origin: Argentina.	pedigree:
PI 523188	donor id: Cili 1292. 10460/46. Seed.	origin: Argentina.	pedigree:
PI 523189	donor id: Cili 1293. 10461/46. Seed.	origin: Argentina.	pedigree:
PI 523190	donor id: Cili 1294. 10462/46. Seed.	origin: Argentina.	pedigree:
PI 523191	donor id: Cili 1295. 10464/46. Seed.	origin: Argentina.	pedigree:
PI 523192	donor id: Cili 1297. 10466/46. Seed.	origin: Argentina.	pedigree:
PI 523193	donor id: Cili 1298. 10469/46. Seed.	origin: Argentina.	pedigree:
PI 523194	donor id: Cili 1299. 10470/46. Seed.	origin: Argentina.	pedigree:
PI 523195	donor id: Cili 1300. 10471/46. Seed.	origin: Argentina.	pedigree:
PI 523196	donor id: Cili 1301. 10472/46. Seed.	origin: Argentina.	pedigree:
PI 523197	donor id: Cili 1302. 10473/46. Seed.	origin: Argentina.	pedigree:
PI 523198	donor id: Cili 1303. 10474/46. Seed.	origin: Argentina.	pedigree:

PI 522539 to 523982-continued

PI 523199	donor id: Cili 1304. 10475/46. Seed.	origin: Argentina.	pedigree:
PI 523200	donor id: Cili 1305. 10476/46. Seed.	origin: Argentina.	pedigree:
PI 523201	donor id: Cili 1306. 10477/46. Seed.	origin: Argentina.	pedigree:
PI 523202	donor id: Cili 1307. 10478/46. Seed.	origin: Argentina.	pedigree:
PI 523203	donor id: Cili 1308. 10479/46. Seed.	origin: Argentina.	pedigree:
PI 523204	donor id: Cili 1309. 10480/46. Seed.	origin: Argentina.	pedigree:
PI 523205	donor id: Cili 1310. 10481/46. Seed.	origin: Argentina.	pedigree:
PI 523206	donor id: Cili 1311. 10482/46. Seed.	origin: Argentina.	pedigree:
PI 523207	donor id: Cili 1312. 10483/46. Seed.	origin: Argentina.	pedigree:
PI 523208	donor id: Cili 1313. 10484/46. Seed.	origin: Argentina.	pedigree:
PI 523209	donor id: Cili 1314. 10485/46. Seed.	origin: Argentina.	pedigree:
PI 523210	donor id: Cili 1315. 10486/46. Seed.	origin: Argentina.	pedigree:
PI 523211	donor id: Cili 1316.	origin: Guatemala.	Seed.
PI 523212	donor id: Cili 1317.	origin: India.	Seed.
PI 523213	donor id: Cili 1320.	origin: Turkey.	Seed.
PI 523214	donor id: Cili 1332. MULTIPLE CROSS. Seed.	origin: United States.	pedigree:
PI 523215	donor id: Cili 1333. SEL FROM 1085 X 1134. Seed.	origin: United States.	pedigree:
PI 523216	donor id: Cili 1334. 1134 X 1125-891-7-1. Seed.	origin: United States.	pedigree:

PI 522539 to 523982-continued

- PI 523217 donor id: Cili 1335. origin: United States. cultivar: MARSHALL. pedigree: (33-1 X 389). Seed.
- PI 523218 donor id: Cili 1336. origin: United States. cultivar: BISBEE. Seed.
- PI 523219 donor id: Cili 1376. origin: Netherlands. cultivar: CONCURRENT. Seed.
- PI 523220 donor id: Cili 1377. origin: Netherlands. cultivar: FORMOSA. Seed.
- PI 523221 donor id: Cili 1379. origin: Netherlands. cultivar: HERCULESE. Seed.
- PI 523222 donor id: Cili 1380. origin: Netherlands. cultivar: HOLLANDIA. Seed.
- PI 523223 donor id: Cili 1474. origin: India. pedigree: HYB 55. Seed.
- PI 523224 donor id: Cili 1475. origin: India. pedigree: HYB 68. Seed.
- PI 523225 donor id: Cili 1476. origin: Netherlands. pedigree: WIERSEMA 43/35. Seed.
- PI 523226 donor id: Cili 1477. origin: Netherlands. pedigree: WEIRSEMA 43/1. Seed.
- PI 523227 donor id: Cili 1478. origin: United States. pedigree: 1085 X 1134 (BOLLEY). Seed.
- PI 523228 donor id: Cili 1479. origin: United States. pedigree: 1134 X 1085. Seed.
- PI 523229 donor id: Cili 1480. origin: United States. pedigree: (WALSH BULG)BISON(GLDNXS GLDN). Seed.
- PI 523230 donor id: Cili 1481. origin: United States. pedigree: SEL ARGENTINE 144. Seed.
- PI 523231 donor id: Cili 1482. origin: Canada. pedigree: 3870A. Seed.
- PI 523232 donor id: Cili 1483. origin: Canada. cultivar: RAJA. Seed.
- PI 523233 donor id: Cili 1484. origin: Canada. pedigree: J W S 153B9XREPETIBLE-VIKING. Seed.

PI 522539 to 523982-continued

- PI 523234 donor id: Cili 1485. origin: United States. pedigree: (GOLDEN-N D R 52) X BISON. Seed.
- PI 523235 donor id: Cili 1486. origin: United States. pedigree: NORSK X AUSTRALIAN X BISON. Seed.
- PI 523236 donor id: Cili 1487. origin: United States. pedigree: (ARG 191-BISON)X(VIKING-BISON). Seed.
- PI 523237 donor id: Cili 1488. origin: United States. pedigree: 975 X CRYSTAL. Seed.
- PI 523238 donor id: Cili 1507. origin: Japan. cultivar: UNRYU. Seed.
- PI 523239 donor id: Cili 1512. origin: United States. cultivar: CORTLAND. Seed.
- PI 523240 donor id: Cili 1513. origin: United States. cultivar: WELLS. Seed.
- PI 523241 donor id: Cili 1523. origin: Sweden. Seed.
- PI 523242 donor id: Cili 1524. origin: Sweden. Seed.
- PI 523243 donor id: Cili 1525. origin: France. Seed.
- PI 523244 donor id: Cili 1526. origin: Argentina. Seed.
- PI 523245 donor id: Cili 1527. origin: Argentina. Seed.
- PI 523246 donor id: Cili 1529. origin: Ethiopia. cultivar: BOECKE GOODS. Seed.
- PI 523247 donor id: Cili 1532. origin: Australia. Seed.
- PI 523248 donor id: Cili 1533. origin: Australia. pedigree: BELADI Y 6903. Seed.
- PI 523249 donor id: Cili 1534. origin: Australia. pedigree: BELADI Y 6906. Seed.
- PI 523250 donor id: Cili 1535. origin: Argentina. cultivar: BENVENUTO LABRADOR. Seed.
- PI 523251 donor id: Cili 1536. origin: Argentina. cultivar: BENVENUTO REALO. Seed.
- PI 523252 donor id: Cili 1538. origin: India. pedigree: CAWNPORE NO 1150. Seed.



PI 522539 to 523982-continued

PI 523253 donor id: Cili 1539. origin: India. pedigree: CAWNPORE  
NO 1193. Seed.

PI 523254 donor id: Cili 1540. origin: India. pedigree: CAWNPORE  
NO 1206. Seed.

PI 523255 donor id: Cili 1541. origin: Argentina. pedigree: LA  
PREVISION 18. Seed.

PI 523256 donor id: Cili 1542. origin: Bulgaria. pedigree: NO 9.  
Seed.

PI 523257 donor id: Cili 1543. origin: Bulgaria. pedigree: NO  
1065. Seed.

PI 523258 donor id: Cili 1544. origin: Bulgaria. pedigree: NO  
1486. Seed.

PI 523259 donor id: Cili 1545. origin: Bulgaria. pedigree: NO  
1658. Seed.

PI 523260 donor id: Cili 1546. origin: Bulgaria. pedigree:  
NO2274. Seed.

PI 523261 donor id: Cili 1547. origin: Argentina. cultivar:  
QUERANDI M A. Seed.

PI 523262 donor id: Cili 1548. origin: Morocco. cultivar: RECOLTE  
NO 0196. Seed.

PI 523263 donor id: Cili 1549. origin: Bulgaria. cultivar: RIJKI.  
Seed.

PI 523264 donor id: Cili 1550. origin: India. cultivar: T-5.  
Seed.

PI 523265 donor id: Cili 1551. origin: India. pedigree: TYPE 6.  
Seed.

PI 523266 donor id: Cili 1553. origin: Uruguay. pedigree: URUGUAY  
36/48. Seed.

PI 523267 donor id: Cili 1554. origin: Uruguay. pedigree: URUGUAY  
36/49. Seed.

PI 523268 donor id: Cili 1555. origin: Australia. pedigree: VERY  
PALE BLUE. Seed.

PI 523269 donor id: Cili 1556. origin: India. pedigree: 1206.  
Seed.

PI 522539 to 523982-continued

PI 523270 donor id: Cili 1557. origin: Morocco. pedigree: RECOLTE  
NO 0189. Seed.

PI 523271 donor id: Cili 1558. origin: United States. pedigree:  
1116 X REDWOOD. Seed.

PI 523272 donor id: Cili 1559. origin: United States. cultivar:  
BOLLEY. Seed.

PI 523273 donor id: Cili 1560. origin: United States. pedigree:  
SEL FROM CI 802. Seed.

PI 523274 donor id: Cili 1561. origin: United States. cultivar:  
TOWNER. Seed.

PI 523275 donor id: Cili 1562. origin: India. pedigree: INDIAN  
TYPE 12. Seed.

PI 523276 donor id: Cili 1563. origin: India. pedigree: INDIAN  
TYPE 13. Seed.

PI 523277 donor id: Cili 1564. origin: India. pedigree: INDIAN  
TYPE 20. Seed.

PI 523278 donor id: Cili 1565. origin: India. pedigree: INDIAN  
TYPE 21. Seed.

PI 523279 donor id: Cili 1566. origin: India. pedigree: INDIAN  
TYPE 23. Seed.

PI 523280 donor id: Cili 1567. origin: India. pedigree: INDIAN  
TYPE 24. Seed.

PI 523281 donor id: Cili 1568. origin: India. pedigree: INDIAN  
TYPE 36. Seed.

PI 523282 donor id: Cili 1569. origin: India. pedigree: INDIAN  
TYPE 40. Seed.

PI 523283 donor id: Cili 1570. origin: India. pedigree: INDIAN  
TYPE 46. Seed.

PI 523284 donor id: Cili 1571. origin: India. pedigree: INDIAN  
TYPE 55. Seed.

PI 523285 donor id: Cili 1575. origin: Egypt. pedigree: BELADI C  
P I 8095. Seed.

PI 523286 donor id: Cili 1576. origin: Egypt. pedigree: BELADI W  
24. Seed.

PI 522539 to 523982-continued

- PI 523287 donor id: Cili 1580. origin: Egypt. cultivar: BENVENUTO REAL. Seed.
- PI 523288 donor id: Cili 1581. origin: Indonesia. pedigree: CAWNPORE NO 483. Seed.
- PI 523289 donor id: Cili 1582. origin: India. pedigree: CAWNPORE NO 1150. Seed.
- PI 523290 donor id: Cili 1583. origin: India. pedigree: CAWNPORE NO 1193. Seed.
- PI 523291 donor id: Cili 1584. origin: India. pedigree: CAWNPORE NO 1206. Seed.
- PI 523292 donor id: Cili 1586. origin: Bulgaria. pedigree: NO 0009. Seed.
- PI 523293 donor id: Cili 1587. origin: Bulgaria. pedigree: NO 1065. Seed.
- PI 523294 donor id: Cili 1588. origin: Bulgaria. pedigree: NO 1486. Seed.
- PI 523295 donor id: Cili 1589. origin: Bulgaria. pedigree: NO 01658. Seed.
- PI 523296 donor id: Cili 1590. origin: Bulgaria. pedigree: NO 2224. Seed.
- PI 523297 donor id: Cili 1591. origin: Argentina. cultivar: QUERANDI. pedigree: M A. Seed.
- PI 523298 donor id: Cili 1592. origin: Morocco. pedigree: RECOLTE NO 0189. Seed.
- PI 523299 donor id: Cili 1593. origin: Morocco. pedigree: RECOLTE NO 0193. Seed.
- PI 523300 donor id: Cili 1595. origin: India. pedigree: INDIAN TYPE 5. Seed.
- PI 523301 donor id: Cili 1596. origin: India. pedigree: INDIAN TYPE 6. Seed.
- PI 523302 donor id: Cili 1597. origin: India. pedigree: INDIAN TYPE 11. Seed.
- PI 523303 donor id: Cili 1600. origin: Australia. pedigree: VERY PALE BLUE CRIMPED. Seed.

PI 522539 to 523982-continued

- PI 523304 donor id: Cili 1601. origin: India. pedigree: 1206. Seed.
- PI 523305 donor id: Cili 1602. origin: Netherlands. cultivar: WEIRA. Seed.
- PI 523306 donor id: Cili 1603. origin: Finland. cultivar: LUOMAL MAATIAIS YELLOW. Seed.
- PI 523307 donor id: Cili 1604. origin: Canada. pedigree: C A N 104 REPITIBLE X REDSON. Seed.
- PI 523308 donor id: Cili 1605. origin: Canada. pedigree: CAN 105 770BXARG8C)(ARROWX975). Seed.
- PI 523309 donor id: Cili 1606. origin: United States. pedigree: B5128 X ZENITH. Seed.
- PI 523310 donor id: Cili 1607. origin: United States. pedigree: CI 116 X REDWOOD. Seed.
- PI 523311 donor id: Cili 1608. origin: Canada. pedigree: CRYSTAL X CI 975. Seed.
- PI 523312 donor id: Cili 1609. origin: Afghanistan. cultivar: HUMPATA. Seed.
- PI 523313 donor id: Cili 1610. origin: South America. cultivar: LEINHO DO BIE. Seed.
- PI 523314 donor id: Cili 1611. origin: South America. cultivar: LEINHO DO CUINA. Seed.
- PI 523315 donor id: Cili 1614. origin: Costa Rica. cultivar: LINAZA. Seed.
- PI 523316 donor id: Cili 1615. origin: Netherlands. pedigree: Z 11637. Seed.
- PI 523317 donor id: Cili 1616. origin: Netherlands. pedigree: Z 1169. Seed.
- PI 523318 donor id: Cili 1618. origin: Afghanistan. pedigree: NO 12801. Seed.
- PI 523319 donor id: Cili 1621. origin: Australia. cultivar: VENTNOR. Seed.
- PI 523320 donor id: Cili 1623. origin: India. pedigree: FIELD NO 13883. Seed.

PI 522539 to 523982-continued

PI 523321 donor id: Cili 1624. origin: India. pedigree: R R 5.  
Seed.

PI 523322 donor id: Cili 1625. origin: India. pedigree: R R 10.  
Seed.

PI 523323 donor id: Cili 1626. origin: India. pedigree: R R 38.  
Seed.

PI 523324 donor id: Cili 1627. origin: India. pedigree: R R 45.  
Seed.

PI 523325 donor id: Cili 1628. origin: Afghanistan. pedigree: NO  
422. Seed..

PI 523326 donor id: Cili 1629. origin: Afghanistan. pedigree: NO  
426. Seed.

PI 523327 donor id: Cili 1630. origin: Afghanistan. pedigree: NO  
427. Seed.

PI 523328 donor id: Cili 1633. origin: Iran. pedigree: 1713-S.  
Seed.

PI 523329 donor id: Cili 1634. origin: Iran. pedigree: 1808-S.  
Seed.

PI 523330 donor id: Cili 1635. origin: Iran. pedigree: 1491-S.  
Seed.

PI 523331 donor id: Cili 1636. origin: Iran. pedigree: 1546-S.  
Seed.

PI 523332 donor id: Cili 1637. origin: Iran. pedigree: 1690-S.  
Seed.

PI 523333 donor id: Cili 1638. origin: Iran. pedigree: 1617-S.  
Seed.

PI 523334 donor id: Cili 1639. origin: Iran. pedigree: 1689-S.  
Seed.

PI 523335 donor id: Cili 1640. origin: Afghanistan. pedigree:  
1159-S. Seed.

PI 523336 donor id: Cili 1641. origin: Afghanistan. cultivar:  
1209-S. Seed.

PI 523337 donor id: Cili 1642. origin: Afghanistan. pedigree:  
1304-S. Seed.

PI 522539 to 523982-continued

PI 523338	donor id: Cili 1643. 1104-S. Seed.	origin: Afghanistan.	pedigree:
PI 523339	donor id: Cili 1644. 1117-S. Seed.	origin: Afghanistan.	pedigree:
PI 523340	donor id: Cili 1645. 1158-S. Seed.	origin: Afghanistan.	pedigree:
PI 523341	donor id: Cili 1646. 1210-S. Seed.	origin: Afghanistan.	pedigree:
PI 523342	donor id: Cili 1647. 1224-S. Seed.	origin: Afghanistan.	pedigree:
PI 523343	donor id: Cili 1648. 1275-S. Seed.	origin: Afghanistan.	pedigree:
PI 523344	donor id: Cili 1649. 1285-S. Seed.	origin: Afghanistan.	pedigree:
PI 523345	donor id: Cili 1650. Seed.	origin: Ireland.	pedigree: NO 1.
PI 523346	donor id: Cili 1651. Seed.	origin: Ireland.	pedigree: NO 2.
PI 523347	donor id: Cili 1652. Seed.	origin: Ireland.	pedigree: NO 3.
PI 523348	donor id: Cili 1653. Seed.	origin: Ireland.	pedigree: NO 4.
PI 523349	donor id: Cili 1654. Seed.	origin: Ireland.	pedigree: NO 5.
PI 523350	donor id: Cili 1655. Seed.	origin: Ireland.	pedigree: NO 6.
PI 523351	donor id: Cili 1656. Seed.	origin: Ireland.	pedigree: NO 7.
PI 523352	donor id: Cili 1657. Seed.	origin: Ireland.	pedigree: NO 8.
PI 523353	donor id: Cili 1662. BULK OF 8 HIGH-OIL SELECTIONS. Seed.	origin: United States.	pedigree:
PI 523354	donor id: Cili 1669. REDWOOD X CASCADE (56-3-42). Seed.	origin: United States.	pedigree:

PI 522539 to 523982-continued

PI 523355 donor id: Cili 1674. origin: Iran. pedigree: NO 14800.  
Seed.

PI 523356 donor id: Cili 1678. origin: Iran. pedigree: NO 15578.  
Seed.

PI 523357 donor id: Cili 1680. origin: Hungary. cultivar: BETA  
201. Seed.

PI 523358 donor id: Cili 1685. origin: Morocco. pedigree: NO  
00205. Seed.

PI 523359 donor id: Cili 1688. origin: Morocco. pedigree: NO L G  
0189B. Seed.

PI 523360 donor id: Cili 1690. origin: Morocco. pedigree: 1015.  
Seed.

PI 523361 donor id: Cili 1691. origin: Morocco. pedigree: 1048.  
Seed.

PI 523362 donor id: Cili 1692. origin: Morocco. pedigree: 1049.  
Seed.

PI 523363 donor id: Cili 1694. origin: Argentina. cultivar:  
PERGAMINO PUELCHE. Seed.

PI 523364 donor id: Cili 1695. origin: United States. pedigree:  
1W WINTER TYPE. Seed.

PI 523365 donor id: Cili 1697. origin: United States. pedigree:  
3W WINTER TYPE. Seed.

PI 523366 donor id: Cili 1698. origin: United States. pedigree:  
4W WINTER TYPE. Seed.

PI 523367 donor id: Cili 1699. origin: United States. pedigree:  
5W WINTER TYPE. Seed.

PI 523368 donor id: Cili 1700. origin: United States. pedigree:  
6W WINTER TYPE. Seed.

PI 523369 donor id: Cili 1703. origin: United States. pedigree:  
9W WINTER TYPE. Seed.

PI 523370 donor id: Cili 1704. origin: United States. pedigree:  
10W WINTER TYPE. Seed.

PI 523371 donor id: Cili 1705. origin: United States. pedigree:  
11W WINTER TYPE. Seed.

PI 522539 to 523982-continued

PI 523372	donor id: Cili 1706.	origin: United States.	pedigree:
	12W WINTER TYPE.	Seed.	
PI 523373	donor id: Cili 1710.	origin: United States.	pedigree:
	16W WINTER TYPE.	Seed.	
PI 523374	donor id: Cili 1711.	origin: United States.	pedigree:
	17W WINTER TYPE.	Seed.	
PI 523375	donor id: Cili 1712.	origin: United States.	pedigree:
	18W WINTER TYPE.	Seed.	
PI 523376	donor id: Cili 1713.	origin: United States.	pedigree:
	19W WINTER TYPE.	Seed.	
PI 523377	donor id: Cili 1714.	origin: United States.	pedigree:
	20W WINTER TYPE.	Seed.	
PI 523378	donor id: Cili 1716.	origin: United States.	pedigree:
	22W WINTER TYPE.	Seed.	
PI 523379	donor id: Cili 1717.	origin: United States.	pedigree:
	23W WINTER TYPE.	Seed.	
PI 523380	donor id: Cili 1718.	origin: United States.	pedigree:
	24W WINTER TYPE.	Seed.	
PI 523381	donor id: Cili 1720.	origin: United States.	pedigree:
	26W WINTER TYPE.	Seed.	
PI 523382	donor id: Cili 1721.	origin: United States.	pedigree:
	27W WINTER TYPE.	Seed.	
PI 523383	donor id: Cili 1722.	origin: United States.	pedigree:
	28W WINTER TYPE.	Seed.	
PI 523384	donor id: Cili 1723.	origin: United States.	pedigree:
	29W WINTER TYPE.	Seed.	
PI 523385	donor id: Cili 1724.	origin: United States.	pedigree:
	30W WINTER TYPE.	Seed.	
PI 523386	donor id: Cili 1726.	origin: United States.	pedigree:
	32W WINTER TYPE.	Seed.	
PI 523387	donor id: Cili 1727.	origin: United States.	pedigree:
	33W WINTER TYPE.	Seed.	
PI 523388	donor id: Cili 1729.	origin: United States.	pedigree:
	35W WINTER TYPE.	Seed.	



PI 522539 to 523982-continued

PI 523389 donor id: Cili 1737. origin: United States. pedigree: 43W WINTER TYPE. Seed.

PI 523390 donor id: Cili 1739. origin: United States. pedigree: 45W WINTER TYPE. Seed.

PI 523391 donor id: Cili 1741. origin: United States. pedigree: 47W WINTER TYPE. Seed.

PI 523392 donor id: Cili 1743. origin: United States. pedigree: 49W WINTER TYPE. Seed.

PI 523393 donor id: Cili 1744. origin: United States. pedigree: 50W WINTER TYPE. Seed.

PI 523394 donor id: Cili 1745. origin: United States. pedigree: 51W WINTER TYPE. Seed.

PI 523395 donor id: Cili 1747. origin: United States. pedigree: 53W WINTER TYPE. Seed.

PI 523396 donor id: Cili 1748. origin: United States. pedigree: 54W WINTER TYPE. Seed.

PI 523397 donor id: Cili 1749. origin: United States. pedigree: 55W WINTER TYPE. Seed.

PI 523398 donor id: Cili 1750. origin: United States. pedigree: 56W WINTER TYPE. Seed.

PI 523399 donor id: Cili 1751. origin: United States. pedigree: 57W WINTER TYPE. Seed.

PI 523400 donor id: Cili 1755. origin: United States. Seed.

PI 523401 donor id: Cili 1819. origin: United States. pedigree: SHORT ARGENTINE. Seed.

PI 523402 donor id: Cili 1823. origin: United States. cultivar: WINDOM. Seed.

PI 523403 donor id: Cili 1827. origin: Pakistan. Seed.

PI 523404 donor id: Cili 1828. origin: Pakistan. Seed.

PI 523405 donor id: Cili 1829. origin: Pakistan. Seed.

PI 523406 donor id: Cili 1830. origin: India. Seed.

PI 523407 donor id: Cili 1831. origin: India. Seed.

PI 523408 donor id: Cili 1832. origin: India. Seed.

PI 522539 to 523982-continued

PI 523409 donor id: Cili 1833. origin: India. Seed.  
PI 523410 donor id: Cili 1834. origin: India. Seed.  
PI 523411 donor id: Cili 1835. origin: India. Seed.  
PI 523412 donor id: Cili 1836. origin: India. Seed.  
PI 523413 donor id: Cili 1837. origin: India. Seed.  
PI 523414 donor id: Cili 1838. origin: India. Seed.  
PI 523415 donor id: Cili 1839. origin: India. Seed.  
PI 523416 donor id: Cili 1840. origin: India. Seed.  
PI 523417 donor id: Cili 1841. origin: India. Seed.  
PI 523418 donor id: Cili 1842. origin: India. Seed.  
PI 523419 donor id: Cili 1843. origin: India. Seed.  
PI 523420 donor id: Cili 1844. origin: India. cultivar: BASIN.  
Seed.  
PI 523421 donor id: Cili 1845. origin: India. cultivar: BUTUL.  
Seed.  
PI 523422 donor id: Cili 1847. origin: India. cultivar: ARREVETI.  
Seed.  
PI 523423 donor id: Cili 1848. origin: India. Seed.  
PI 523424 donor id: Cili 1849. origin: India. Seed.  
PI 523425 donor id: Cili 1850. origin: India. Seed.  
PI 523426 donor id: Cili 1853. origin: India. Seed.  
PI 523427 donor id: Cili 1854. origin: Hungary. cultivar:  
AUSZTRALISI. Seed.  
PI 523428 donor id: Cili 1855. origin: Hungary. cultivar: BETA NO  
201. Seed.  
PI 523429 donor id: Cili 1856. origin: Hungary. cultivar: CHAURRA  
OLAJLEN. Seed.  
PI 523430 donor id: Cili 1858. origin: Hungary. cultivar:  
DAEHNFELDT. Seed.

PI 522539 to 523982-continued

PI 523431	donor id: Cili 1859. DACHNFELDT 369. Seed.	origin: Hungary.	cultivar:
PI 523432	donor id: Cili 1860. ECKENDORFI. Seed.	origin: Hungary.	cultivar:
PI 523433	donor id: Cili 1861. Seed.	origin: Hungary.	cultivar: FIVEL.
PI 523434	donor id: Cili 1863. Seed.	origin: Hungary.	cultivar: GALEGO.
PI 523435	donor id: Cili 1864. GUERANDI. Seed.	origin: Hungary.	cultivar:
PI 523436	donor id: Cili 1865. Seed.	origin: Hungary.	cultivar: HENDI.
PI 523437	donor id: Cili 1868. Seed.	origin: Hungary.	cultivar: HORAL.
PI 523438	donor id: Cili 1870. HOSSZUHATI TAJFAJTA. Seed.	origin: Hungary.	cultivar:
PI 523439	donor id: Cili 1872. HOSSZUHATI 7022. Seed.	origin: Hungary.	cultivar:
PI 523440	donor id: Cili 1873. HOSSZUHATI 8401. Seed.	origin: Hungary.	cultivar:
PI 523441	donor id: Cili 1874. LA PLATA. Seed.	origin: Hungary.	cultivar: N 39/A
PI 523442	donor id: Cili 1875. LA PLATA. Seed.	origin: Hungary.	cultivar: N 39/B
PI 523443	donor id: Cili 1876. KARNOBAT 3. Seed.	origin: Hungary.	cultivar:
PI 523444	donor id: Cili 1877. KARNOBAT 4. Seed.	origin: Hungary.	cultivar:
PI 523445	donor id: Cili 1878. KARNOBAT 5. Seed.	origin: Hungary.	cultivar:
PI 523446	donor id: Cili 1879. KARNOBAT 6. Seed.	origin: Hungary.	cultivar:
PI 523447	donor id: Cili 1880. Seed.	origin: Hungary.	cultivar: KOKROZ.

PI 522539 to 523982-continued

PI 523448	donor id: Cili 1881. KRIISZTINA. Seed.	origin: Hungary.	cultivar:
PI 523449	donor id: Cili 1882. PREVIZION. Seed.	origin: Hungary.	cultivar: LA
PI 523450	donor id: Cili 1883. LEUCANTHUM. Seed.	origin: Hungary.	cultivar:
PI 523451	donor id: Cili 1885. (DR). Seed.	origin: Hungary.	cultivar: MATHIS
PI 523452	donor id: Cili 1886. Seed.	origin: Hungary.	cultivar: MAPUN.
PI 523453	donor id: Cili 1887. Seed.	origin: Hungary.	cultivar: MARTIN.
PI 523454	donor id: Cili 1888. I.6. Seed.	origin: Hungary.	cultivar: MARTONI
PI 523455	donor id: Cili 1889. Seed.	origin: Hungary.	cultivar: MUSSEL.
PI 523456	donor id: Cili 1891. Seed.	origin: Hungary.	cultivar: PERNAU.
PI 523457	donor id: Cili 1892. PREMAVERA. Seed.	origin: Hungary.	cultivar:
PI 523458	donor id: Cili 1893. PUBLICION FACULTAD. Seed.	origin: Hungary.	cultivar:
PI 523459	donor id: Cili 1894. RACACIUNI X GIZA. Seed.	origin: Hungary.	cultivar:
PI 523460	donor id: Cili 1895. Seed.	origin: Hungary.	cultivar: RECORD.
PI 523461	donor id: Cili 1897. X HINDI. Seed.	origin: Hungary.	pedigree: SALIGNY
PI 523462	donor id: Cili 1898. RESTLEN. Seed.	origin: Hungary.	cultivar: SKOT
PI 523463	donor id: Cili 1899. LEUCHTE. Seed.	origin: Hungary.	cultivar: SOCTOSS
PI 523464	donor id: Cili 1900. SZICILISI ELSJLEN. Seed.	origin: Hungary.	cultivar:

PI 522539 to 523982-continued

PI 523465 donor id: Cili 1901. origin: Hungary. cultivar: TEXALA.  
Seed.

PI 523466 donor id: Cili 1902. origin: Hungary. cultivar: TEXTIL  
FLAX. Seed.

PI 523467 donor id: Cili 1903. origin: Hungary. cultivar: TOROK  
4. Seed.

PI 523468 donor id: Cili 1904. origin: Hungary. cultivar: TOROK  
10. Seed.

PI 523469 donor id: Cili 1905. origin: Hungary. cultivar: TOROK  
11. Seed.

PI 523470 donor id: Cili 1906. origin: Hungary. cultivar:  
TRIUMPH. Seed.

PI 523471 donor id: Cili 1907. origin: United States. cultivar:  
NEWTURK. Seed.

PI 523472 donor id: Cili 1908. origin: United States. cultivar:  
CALDWELL. Seed.

PI 523473 donor id: Cili 1909. origin: United States. pedigree:  
TURKEYXROMAN WINTER (TEX 10-7). Seed.

PI 523474 donor id: Cili 1911. origin: United States. cultivar:  
PUNJAB 53. Seed.

PI 523475 donor id: Cili 1913. origin: Canada. pedigree: CI 1373  
SEL 2. Seed.

PI 523476 donor id: Cili 1914. origin: United States. pedigree:  
CI 980 X ZENITH. Seed.

PI 523477 donor id: Cili 1915. origin: Germany. Seed.

PI 523478 donor id: Cili 1916. origin: Canada. pedigree: R L 219.  
Seed.

PI 523479 donor id: Cili 1958. origin: Pakistan. pedigree: TYPE  
1. Seed.

PI 523480 donor id: Cili 1959. origin: Pakistan. pedigree: TYPE  
2. Seed.

PI 523481 donor id: Cili 1960. origin: Pakistan. pedigree: TYPE  
3. Seed.

PI 523482 donor id: Cili 1961. origin: Pakistan. pedigree: TYPE  
4. Seed.

PI 522539 to 523982-continued

PI 523483	donor id: Cili 1962. 5. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523484	donor id: Cili 1963. 6. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523485	donor id: Cili 1964. 7. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523486	donor id: Cili 1965. 8. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523487	donor id: Cili 1966. 9. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523488	donor id: Cili 1967. 10. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523489	donor id: Cili 1968. 11. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523490	donor id: Cili 1969. 12. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523491	donor id: Cili 1970. 14. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523492	donor id: Cili 1971. 15. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523493	donor id: Cili 1972. 16. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523494	donor id: Cili 1973. 17. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523495	donor id: Cili 1974. 18. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523496	donor id: Cili 1975. 19. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523497	donor id: Cili 1976.	origin: Germany.	Seed.
PI 523498	donor id: Cili 1977. 22. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523499	donor id: Cili 1978. 23. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523500	donor id: Cili 1979. 24. Seed.	origin: Pakistan.	pedigree: TYPE

PI 522539 to 523982-continued

PI 523501	donor id: Cili 1980. 25. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523502	donor id: Cili 1982. 32. Seed.	origin: Pakistan.	pedigree: TYPE
PI 523503	donor id: Cili 2075. Seed.	origin: India.	pedigree: N P 1.
PI 523504	donor id: Cili 2076. Seed.	origin: India.	pedigree: N P 2.
PI 523505	donor id: Cili 2077. Seed.	origin: India.	pedigree: N P 3.
PI 523506	donor id: Cili 2079. Seed.	origin: India.	pedigree: N P 5.
PI 523507	donor id: Cili 2080. Seed.	origin: India.	pedigree: N P 6.
PI 523508	donor id: Cili 2081. Seed.	origin: India.	pedigree: N P 7.
PI 523509	donor id: Cili 2082. Seed.	origin: India.	pedigree: N P 8.
PI 523510	donor id: Cili 2083. Seed.	origin: India.	pedigree: N P 9.
PI 523511	donor id: Cili 2085. Seed.	origin: India.	pedigree: N P 11.
PI 523512	donor id: Cili 2086. Seed.	origin: India.	pedigree: N P 12.
PI 523513	donor id: Cili 2087. Seed.	origin: India.	pedigree: N P 13.
PI 523514	donor id: Cili 2088. Seed.	origin: India.	pedigree: N P 14.
PI 523515	donor id: Cili 2090. Seed.	origin: India.	pedigree: N P 16.
PI 523516	donor id: Cili 2091. Seed.	origin: India.	pedigree: N P 17.
PI 523517	donor id: Cili 2092. Seed.	origin: India.	pedigree: N P 18.

PI 522539 to 523982-continued

PI 523518	donor id: Cili 2093. Seed.	origin: India.	pedigree: N P 19.
PI 523519	donor id: Cili 2094. Seed.	origin: India.	pedigree: N P 20.
PI 523520	donor id: Cili 2095. Seed.	origin: India.	pedigree: N P 21.
PI 523521	donor id: Cili 2096. Seed.	origin: India.	pedigree: N P 22.
PI 523522	donor id: Cili 2097. Seed.	origin: India.	pedigree: N P 23.
PI 523523	donor id: Cili 2098. Seed.	origin: India.	pedigree: N P 24.
PI 523524	donor id: Cili 2099. Seed.	origin: India.	pedigree: N P 25.
PI 523525	donor id: Cili 2100. Seed.	origin: India.	pedigree: N P 26.
PI 523526	donor id: Cili 2101. Seed.	origin: India.	pedigree: N P 27.
PI 523527	donor id: Cili 2102. Seed.	origin: India.	pedigree: N P 28.
PI 523528	donor id: Cili 2103. Seed.	origin: India.	pedigree: N P 29.
PI 523529	donor id: Cili 2104. Seed.	origin: India.	pedigree: N P 30.
PI 523530	donor id: Cili 2105. Seed.	origin: India.	pedigree: N P 31.
PI 523531	donor id: Cili 2106. Seed.	origin: India.	pedigree: N P 32.
PI 523532	donor id: Cili 2107. Seed.	origin: India.	pedigree: N P 33.
PI 523533	donor id: Cili 2108. Seed.	origin: India.	pedigree: N P 34.
PI 523534	donor id: Cili 2109. Seed.	origin: India.	pedigree: N P 35.



PI 522539 to 523982-continued

PI 523535	donor id: Cili 2110. Seed.	origin: India.	pedigree: N P 36.
PI 523536	donor id: Cili 2111. Seed.	origin: India.	pedigree: N P 37.
PI 523537	donor id: Cili 2112. Seed.	origin: India.	pedigree: N P 38.
PI 523538	donor id: Cili 2113. Seed.	origin: India.	pedigree: N P 39.
PI 523539	donor id: Cili 2114. Seed.	origin: India.	pedigree: N P 40.
PI 523540	donor id: Cili 2115. Seed.	origin: India.	pedigree: N P 41.
PI 523541	donor id: Cili 2116. Seed.	origin: India.	pedigree: N P 42.
PI 523542	donor id: Cili 2117. Seed.	origin: India.	pedigree: N P 43.
PI 523543	donor id: Cili 2118. Seed.	origin: India.	pedigree: N P 45.
PI 523544	donor id: Cili 2119. Seed.	origin: India.	pedigree: N P 46.
PI 523545	donor id: Cili 2120. Seed.	origin: India.	pedigree: N P 47.
PI 523546	donor id: Cili 2121. Seed.	origin: India.	pedigree: N P 48.
PI 523547	donor id: Cili 2122. Seed.	origin: India.	pedigree: N P 49.
PI 523548	donor id: Cili 2123. Seed.	origin: India.	pedigree: N P 50.
PI 523549	donor id: Cili 2124. Seed.	origin: India.	pedigree: N P 51.
PI 523550	donor id: Cili 2125. Seed.	origin: India.	pedigree: N P 52.
PI 523551	donor id: Cili 2126. Seed.	origin: India.	pedigree: N P 53.

PI 522539 to 523982-continued

PI 523552 donor id: CILI 2127. origin: India. pedigree: N P 54.  
Seed.

PI 523553 donor id: CILI 2128. origin: Germany. Seed.

PI 523554 donor id: CILI 2129. origin: India. pedigree: N P 56.  
Seed.

PI 523555 donor id: CILI 2130. origin: India. pedigree: N P 57.  
Seed.

PI 523556 donor id: CILI 2131. origin: India. pedigree: N P 58.  
Seed.

PI 523557 donor id: CILI 2132. origin: India. pedigree: N P 59.  
Seed.

PI 523558 donor id: CILI 2133. origin: India. pedigree: N P 60.  
Seed.

PI 523559 donor id: CILI 2134. origin: India. pedigree: N P 61.  
Seed.

PI 523560 donor id: CILI 2135. origin: India. pedigree: N P 62.  
Seed.

PI 523561 donor id: CILI 2136. origin: India. pedigree: N P 63.  
Seed.

PI 523562 donor id: CILI 2137. origin: India. pedigree: N P 64.  
Seed.

PI 523563 donor id: CILI 2138. origin: India. pedigree: N P 65.  
Seed.

PI 523564 donor id: CILI 2139. origin: India. pedigree: N P 66.  
Seed.

PI 523565 donor id: CILI 2140. origin: India. pedigree: N P 67.  
Seed.

PI 523566 donor id: CILI 2141. origin: India. pedigree: N P 68.  
Seed.

PI 523567 donor id: CILI 2142. origin: India. pedigree: N P 69.  
Seed.

PI 523568 donor id: CILI 2143. origin: India. pedigree: N P 70.  
Seed.

PI 523569 donor id: CILI 2144. origin: India. pedigree: N P 71.  
Seed.

PI 522539 to 523982-continued

PI 523570 donor id: Cili 2145. origin: India. pedigree: N P 72.  
Seed.

PI 523571 donor id: Cili 2146. origin: India. pedigree: N P 73.  
Seed.

PI 523572 donor id: Cili 2147. origin: India. pedigree: N P 74.  
Seed.

PI 523573 donor id: Cili 2148. origin: India. pedigree: N P 75.  
Seed.

PI 523574 donor id: Cili 2149. origin: India. pedigree: N P 76.  
Seed.

PI 523575 donor id: Cili 2150. origin: India. pedigree: N P 77.  
Seed.

PI 523576 donor id: Cili 2151. origin: India. pedigree: N P 78.  
Seed.

PI 523577 donor id: Cili 2152. origin: India. pedigree: N P 79.  
Seed.

PI 523578 donor id: Cili 2153. origin: India. cultivar: N P 80.  
pedigree: N P 80. Seed.

PI 523579 donor id: Cili 2154. origin: India. pedigree: N P 81.  
Seed.

PI 523580 donor id: Cili 2155. origin: India. pedigree: N P 82.  
Seed.

PI 523581 donor id: Cili 2156. origin: India. pedigree: N P 83.  
Seed.

PI 523582 donor id: Cili 2157. origin: India. pedigree: N P 84.  
Seed.

PI 523583 donor id: Cili 2159. origin: India. pedigree: N P 86.  
Seed.

PI 523584 donor id: Cili 2160. origin: India. pedigree: N P 87.  
Seed.

PI 523585 donor id: Cili 2161. origin: India. pedigree: N P 88.  
Seed.

PI 523586 donor id: Cili 2162. origin: India. pedigree: N P 89.  
Seed.

PI 522539 to 523982-continued

PI 523587	donor id: Cili 2163. Seed.	origin: India.	pedigree: N P 90.
PI 523588	donor id: Cili 2164. Seed.	origin: India.	pedigree: N P 91.
PI 523589	donor id: Cili 2165. Seed.	origin: India.	pedigree: N P 92.
PI 523590	donor id: Cili 2166. Seed.	origin: India.	pedigree: N P 93.
PI 523591	donor id: Cili 2167. Seed.	origin: India.	pedigree: N P 94.
PI 523592	donor id: Cili 2168. Seed.	origin: India.	pedigree: N P 95.
PI 523593	donor id: Cili 2169. Seed.	origin: India.	pedigree: N P 96.
PI 523594	donor id: Cili 2170. Seed.	origin: India.	pedigree: N P 97.
PI 523595	donor id: Cili 2171. Seed.	origin: India.	pedigree: N P 98.
PI 523596	donor id: Cili 2172. Seed.	origin: India.	pedigree: N P 99.
PI 523597	donor id: Cili 2173. Seed.	origin: India.	pedigree: N P 100.
PI 523598	donor id: Cili 2174. Seed.	origin: India.	pedigree: N P 101.
PI 523599	donor id: Cili 2175. Seed.	origin: India.	pedigree: N P 102.
PI 523600	donor id: Cili 2176. Seed.	origin: India.	pedigree: N P 103.
PI 523601	donor id: Cili 2177. Seed.	origin: India.	pedigree: N P 104.
PI 523602	donor id: Cili 2178. Seed.	origin: India.	pedigree: N P 105.
PI 523603	donor id: Cili 2179. Seed.	origin: India.	pedigree: N P 106.

PI 522539 to 523982-continued

PI 523604	donor id: Cili 2180. Seed.	origin: India.	pedigree: N P 107.
PI 523605	donor id: Cili 2181. Seed.	origin: India.	pedigree: N P 108.
PI 523606	donor id: Cili 2182. Seed.	origin: India.	pedigree: N P 109.
PI 523607	donor id: Cili 2183. Seed.	origin: India.	pedigree: N P 110.
PI 523608	donor id: Cili 2184. Seed.	origin: India.	pedigree: N P 111.
PI 523609	donor id: Cili 2185. Seed.	origin: India.	pedigree: N P 112.
PI 523610	donor id: Cili 2186. Seed.	origin: India.	pedigree: N P 113.
PI 523611	donor id: Cili 2189. Seed.	origin: India.	pedigree: N P 116.
PI 523612	donor id: Cili 2193. Seed.	origin: India.	pedigree: N P 120.
PI 523613	donor id: Cili 2194. Seed.	origin: India.	pedigree: N P 121.
PI 523614	donor id: Cili 2195. Seed.	origin: India.	pedigree: N P 122.
PI 523615	donor id: Cili 2196. Seed.	origin: India.	pedigree: N P 123.
PI 523616	donor id: Cili 2197. Seed.	origin: India.	pedigree: N P 124.
PI 523617	donor id: Cili 2198. Seed.	origin: India.	pedigree: B R 1.
PI 523618	donor id: Cili 2199. Seed.	origin: India.	pedigree: B R 9.
PI 523619	donor id: Cili 2200. Seed.	origin: India.	pedigree: B R 12.
PI 523620	donor id: Cili 2202. Seed.	origin: India.	pedigree: I P J 6.

PI 522539 to 523982-continued

PI 523621	donor id: Cili 2204. Seed.	origin: India.	pedigree: S 36.
PI 523622	donor id: Cili 2205. Seed.	origin: India.	pedigree: K 2.
PI 523623	donor id: Cili 2206. Seed.	origin: India.	pedigree: N 55.
PI 523624	donor id: Cili 2207. Seed.	origin: India.	pedigree: NC 5-2.
PI 523625	donor id: Cili 2208. Seed.	origin: India.	pedigree: T 477.
PI 523626	donor id: Cili 2210. 5. Seed.	origin: India.	pedigree: N P (RR)
PI 523627	donor id: Cili 2213. 38. Seed.	origin: India.	pedigree: N P (RR)
PI 523628	donor id: Cili 2214. 45. Seed.	origin: India.	pedigree: N P (RR)
PI 523629	donor id: Cili 2216. 204. Seed.	origin: India.	pedigree: N P (RR)
PI 523630	donor id: Cili 2217. 261. Seed.	origin: India.	pedigree: N P (RR)
PI 523631	donor id: Cili 2218. 262. Seed.	origin: India.	pedigree: N P (RR)
PI 523632	donor id: Cili 2219. 267. Seed.	origin: India.	pedigree: N P (RR)
PI 523633	donor id: Cili 2221. 405. Seed.	origin: India.	pedigree: N P (RR)
PI 523634	donor id: Cili 2222. 407. Seed.	origin: India.	pedigree: N P (RR)
PI 523635	donor id: Cili 2223. 438. Seed.	origin: India.	pedigree: N P (RR)
PI 523636	donor id: Cili 2224. 439. Seed.	origin: India.	pedigree: N P (RR)
PI 523637	donor id: Cili 2225. 440. Seed.	origin: India.	pedigree: N P (RR)

PI 522539 to 523982-continued

- PI 523638 donor id: Cili 2226. origin: India. pedigree: N P (RR) 494. Seed.
- PI 523639 donor id: Cili 2227. origin: German Democratic Repub. cultivar: BERNBURGER OEL FASERLEIN. Seed.
- PI 523640 donor id: Cili 2228. origin: Netherlands. cultivar: DACHNFELT. Seed.
- PI 523641 donor id: Cili 2229. origin: German Democratic Repub. cultivar: FLACHSKOPF. Seed.
- PI 523642 donor id: Cili 2231. origin: Czechoslovakia. cultivar: MODRAN. Seed.
- PI 523643 donor id: Cili 2232. origin: Czechoslovakia. cultivar: REKORD. Seed.
- PI 523644 donor id: Cili 2233. origin: Czechoslovakia. cultivar: TEXTILAK. Seed.
- PI 523645 donor id: Cili 2234. origin: Czechoslovakia. cultivar: ZADAR. Seed.
- PI 523646 donor id: Cili 2236. origin: Soviet Union. cultivar: BARNAND NO 18. Seed.
- PI 523647 donor id: Cili 2237. origin: Soviet Union. cultivar: BUCHARIAN NO 32. Seed.
- PI 523648 donor id: Cili 2238. origin: Soviet Union. cultivar: GISSARSKY NO 474. Seed.
- PI 523649 donor id: Cili 2239. origin: Soviet Union. cultivar: KAGALNITZ NO 1350. Seed.
- PI 523650 donor id: Cili 2240. origin: Soviet Union. cultivar: KRASNOKUT NO 420. Seed.
- PI 523651 donor id: Cili 2241. origin: Soviet Union. cultivar: SHATILOV NO 39. Seed.
- PI 523652 donor id: Cili 2242. origin: Soviet Union. cultivar: VER NO 1647. Seed.
- PI 523653 donor id: Cili 2243. origin: Soviet Union. cultivar: VER NO 1650. Seed.
- PI 523654 donor id: Cili 2244. origin: Poland. Seed.
- PI 523655 donor id: Cili 2245. origin: Czechoslovakia. cultivar: R 2/1. Seed.

PI 522539 to 523982-continued

- PI 523656 donor id: Cili 2246. origin: Bulgaria. cultivar: MOJDINEN 25. Seed.
- PI 523657 donor id: Cili 2247. origin: Hungary. cultivar: BETA 88 KETHASZUM. Seed.
- PI 523658 donor id: Cili 2248. origin: Hungary. cultivar: BETA 91 KETHASZUM. Seed.
- PI 523659 donor id: Cili 2250. origin: Hungary. cultivar: CREPITAM TABOR. Seed.
- PI 523660 donor id: Cili 2251. origin: Hungary. cultivar: HOSSZUHATI. Seed.
- PI 523661 donor id: Cili 2252. origin: Hungary. cultivar: UNGARSKI SEKATSCH. Seed.
- PI 523662 donor id: Cili 2253. origin: Soviet Union. cultivar: KRUMPNOSEMENNII. Seed.
- PI 523663 donor id: Cili 2254. origin: Soviet Union. cultivar: LUISIZIA. Seed.
- PI 523664 donor id: Cili 2255. origin: Soviet Union. cultivar: PREDILSCHTSCHIK. Seed.
- PI 523665 donor id: Cili 2256. origin: Soviet Union. cultivar: SEIREK. Seed.
- PI 523666 donor id: Cili 2257. origin: Soviet Union. cultivar: STOWROPOLSKI. Seed.
- PI 523667 donor id: Cili 2258. origin: Soviet Union. cultivar: STEPNOI. Seed.
- PI 523668 donor id: Cili 2259. origin: Soviet Union. cultivar: SWETOTSCH. Seed.
- PI 523669 donor id: Cili 2260. origin: Soviet Union. cultivar: ZARSKI. Seed.
- PI 523670 donor id: Cili 2261. origin: Soviet Union. cultivar: CHISSAISKI. Seed.
- PI 523671 donor id: Cili 2262. origin: Soviet Union. cultivar: VARONESHKI 1308. Seed.
- PI 523672 donor id: Cili 2264. origin: Canada. pedigree: 5648-C. Seed.
- PI 523673 donor id: Cili 2265. origin: Israel. Seed.



PI 522539 to 523982-continued

PI 523674 donor id: Cili 2266. origin: Israel. Seed.

PI 523675 donor id: Cili 2267. origin: Israel. Seed.

PI 523676 donor id: Cili 2268. origin: Israel. Seed.

PI 523677 donor id: Cili 2269. origin: Israel. Seed.

PI 523678 donor id: Cili 2270. origin: Israel. Seed.

PI 523679 donor id: Cili 2271. origin: United States. pedigree:  
REDWOOD X BIRIO 33-6. Seed.

PI 523680 donor id: Cili 2272. origin: United States. pedigree:  
REDWOOD X BIRIO 87-5. Seed.

PI 523681 donor id: Cili 2273. origin: United States. pedigree:  
REDWOOD X BIRIO 202-2. Seed.

PI 523682 donor id: Cili 2274. origin: United States. pedigree:  
REDWOOD X4 III-57-82. Seed.

PI 523683 donor id: Cili 2275. origin: United States. pedigree:  
MARINE X4 III-57-12. Seed.

PI 523684 donor id: Cili 2276. origin: United States. pedigree:  
2-4D SENSITIVE. Seed.

PI 523685 donor id: Cili 2277. origin: United States. pedigree:  
2-4D TOLERANT. Seed.

PI 523686 donor id: Cili 2278. origin: United States. pedigree: N  
D 2 B-5128 SEL. Seed.

PI 523687 donor id: Cili 2279. origin: United States. pedigree: N  
D 4 B-5128 SEL. Seed.

PI 523688 donor id: Cili 2280. origin: Canada. pedigree: F P 301.  
Seed.

PI 523689 donor id: Cili 2281. origin: Canada. pedigree: F P 308.  
Seed.

PI 523690 donor id: Cili 2282. origin: Canada. pedigree: F P 342.  
Seed.

PI 523691 donor id: Cili 2290. origin: United States. pedigree:  
RWD X CRYSTAL (II-54-13). Seed.

PI 523692 donor id: Cili 2291. origin: United States. pedigree:  
RWD X BIRIO (II\_54-24). Seed.

PI 522539 to 523982-continued

PI 523693 donor id: Cili 2292. origin: United States. pedigree: B-5128 X REDSON. Seed.

PI 523694 donor id: Cili 2309. origin: Argentina. Seed.

PI 523695 donor id: Cili 2310. origin: Argentina. Seed.

PI 523696 donor id: Cili 2311. origin: Argentina. Seed.

PI 523697 donor id: Cili 2338. origin: Finland. Seed.

PI 523698 donor id: Cili 2339. origin: United States. pedigree: CRYSTAL HYBRID 1-3. Seed.

PI 523699 donor id: Cili 2340. origin: United States. pedigree: CRYSTAL HYBRID 2-1. Seed.

PI 523700 donor id: Cili 2341. origin: United States. pedigree: \CRYSTAL HYBRID 3-2. Seed.

PI 523701 donor id: Cili 2424. origin: United States. pedigree: TEXAS S 32-1 VIKING X NORSK. Seed.

PI 523702 donor id: Cili 2426. origin: United States. pedigree: RUST-RES GENOTYPE LLM3M3N1N1. Seed.

PI 523703 donor id: Cili 2427. origin: United States. pedigree: RWD X CRYSTAL MINN 11-54-17. Seed.

PI 523704 donor id: Cili 2428. origin: United States. pedigree: CI 1537 X RWD2 MINN ISO. Seed.

PI 523705 donor id: Cili 2429. origin: Canada. pedigree: F V 386.97 RDWG X RCKT. Seed.

PI 523706 donor id: Cili 2430. origin: Canada. pedigree: F V 387. Seed.

PI 523707 donor id: Cili 2431. origin: United States. pedigree: A0005 DAK X PUNJ 47 3. Seed.

PI 523708 donor id: Cili 2433. origin: Germany. Seed.

PI 523709 donor id: Cili 2434. origin: China. Seed.

PI 523710 donor id: Cili 2435. origin: Soviet Union. Seed.

PI 523711 donor id: Cili 2436. origin: Soviet Union. Seed.

PI 523712 donor id: Cili 2437. origin: Soviet Union. Seed.

PI 523713 donor id: Cili 2438. origin: Soviet Union. Seed.

PI 522539 to 523982-continued

PI 523714 donor id: CIli 2439. origin: Soviet Union. Seed.  
PI 523715 donor id: CIli 2440. origin: Soviet Union. Seed.  
PI 523716 donor id: CIli 2441. origin: Soviet Union. Seed.  
PI 523717 donor id: CIli 2442. origin: United Kingdom. Seed.  
PI 523718 donor id: CIli 2443. origin: United Kingdom. Seed.  
PI 523719 donor id: CIli 2444. origin: United States. Seed.  
PI 523720 donor id: CIli 2445. origin: United States. Seed.  
PI 523721 donor id: CIli 2446. origin: United States. Seed.  
PI 523722 donor id: CIli 2447. origin: United States. Seed.  
PI 523723 donor id: CIli 2448. origin: Australia. Seed.  
PI 523724 donor id: CIli 2449. origin: Australia. Seed.  
PI 523725 donor id: CIli 2450. origin: Australia. Seed.  
PI 523726 donor id: CIli 2451. origin: Australia. Seed.  
PI 523727 donor id: CIli 2453. origin: Turkey. Seed.  
PI 523728 donor id: CIli 2454. origin: Turkey. Seed.  
PI 523729 donor id: CIli 2455. origin: Iran. Seed.  
PI 523730 donor id: CIli 2456. origin: India. Seed.  
PI 523731 donor id: CIli 2463. origin: India. Seed.  
PI 523732 donor id: CIli 2465. origin: India. Seed.  
PI 523733 donor id: CIli 2466. origin: India. Seed.  
PI 523734 donor id: CIli 2467. origin: India. Seed.  
PI 523735 donor id: CIli 2473. origin: India. Seed.  
PI 523736 donor id: CIli 2474. origin: India. Seed.  
PI 523737 donor id: CIli 2475. origin: India. Seed.  
PI 523738 donor id: CIli 2480. origin: United States. Seed.  
PI 523739 donor id: CIli 2481. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6M3M3N1N1. Seed.

PI 522539 to 523982-continued

PI 523740 donor id: Cili 2482. origin: United States. Seed.

PI 523741 donor id: Cili 2483. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6N1P/N1P. Seed.

PI 523742 donor id: Cili 2484. origin: United States. Seed.

PI 523743 donor id: Cili 2485. origin: France. Seed.

PI 523744 donor id: Cili 2486. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6M3M3N1N1. Seed.

PI 523745 donor id: Cili 2487. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6M3M3N1N1. Seed.

PI 523746 donor id: Cili 2488. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6M3M3N1N1. Seed.

PI 523747 donor id: Cili 2489. origin: United States. pedigree:  
RUST-RES GENOTYPE LLN1P3/N1P3. Seed.

PI 523748 donor id: Cili 2490. origin: United States. pedigree:  
RUST-RES GENOTYPE M4M4(B15). Seed.

PI 523749 donor id: Cili 2491. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6N1N1. Seed.

PI 523750 donor id: Cili 2492. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6N1N1. Seed.

PI 523751 donor id: Cili 2493. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6N1N1. Seed.

PI 523752 donor id: Cili 2494. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6M3M3. Seed.

PI 523753 donor id: Cili 2495. origin: United States. pedigree:  
RUST-RESISTANCE GENOTYPE LLNN. Seed.

PI 523754 donor id: Cili 2496. origin: United States. pedigree:  
RUST-RES GENOTYPE M3M3NN. Seed.

PI 523755 donor id: Cili 2497. origin: United States. pedigree:  
RUST-RES GENOTYPE M3M3N1N1. Seed.

PI 523756 donor id: Cili 2498. origin: United States. pedigree:  
RUST-RESISTANCE GENOTYPE NP/NP. Seed.

PI 523757 donor id: Cili 2499. origin: United States. pedigree:  
RUST-RES GENOTYPE NP3/NP3. Seed.

PI 522539 to 523982-continued

PI 523758 donor id: Cili 2500. origin: United States. pedigree:  
RUST-RES GENOTYPE NP3/NP3. Seed.

PI 523759 donor id: Cili 2501. origin: United States. pedigree:  
RUST-RES GENOTYPE N1P3/N1P3. Seed.

PI 523760 donor id: Cili 2502. origin: United States. pedigree:  
RUST-RES GENOTYPE NN1/NN1. Seed.

PI 523761 donor id: Cili 2503. origin: United States. pedigree:  
RUST-RES GENO NN1 (KUGLER C). Seed.

PI 523762 donor id: Cili 2504. origin: United States. pedigree:  
RUST-RES GENOTYPE MM3/MM3. Seed.

PI 523763 donor id: Cili 2505. origin: United States. pedigree:  
RUST-RES GENOTYPE MM3/MM3. Seed.

PI 523764 donor id: Cili 2506. origin: United States. pedigree:  
RUST-RES GENOTYPE M3M3P3P3. Seed.

PI 523765 donor id: Cili 2507. origin: United States. pedigree:  
RUST-RES GENO LL(B15). Seed.

PI 523766 donor id: Cili 2508. origin: United States. pedigree:  
RUST-RES GENO MM(B12). Seed.

PI 523767 donor id: Cili 2509. origin: United States. pedigree:  
RUST-RES GENOTYPE NN(B15). Seed.

PI 523768 donor id: Cili 2510. origin: United States. pedigree:  
RUST-RES GENOTYPE L2L2(B15). Seed.

PI 523769 donor id: Cili 2511. origin: United States. pedigree:  
RUST-RES GENOTYPE M3M3(B15). Seed.

PI 523770 donor id: Cili 2512. origin: United States. pedigree:  
RUST-RES GENOTYPE PP(B15). Seed.

PI 523771 donor id: Cili 2513. origin: United States. pedigree:  
RUST-RES GENOTYPE KK(B15). Seed.

PI 523772 donor id: Cili 2514. origin: United States. pedigree:  
RUST-RES GENOTYPE N1N1(B12). Seed.

PI 523773 donor id: Cili 2515. origin: United States. pedigree:  
RUST-RES GENOTYPE L6L6(B15). Seed.

PI 523774 donor id: Cili 2516. origin: United States. pedigree:  
RUST-RES GENOTYPE P3P3(B15). Seed.

PI 522539 to 523982-continued

PI 523775 donor id: Cili 2517. origin: United States. pedigree: RUST-RES GENOTYPE M1M1(B15). Seed.

PI 523776 donor id: Cili 2518. origin: United States. pedigree: R0001 (YELLOW SEED SELECTION). Seed.

PI 523777 donor id: Cili 2519. origin: United States. cultivar: GOAR 1839. Seed.

PI 523778 donor id: Cili 2520. origin: United States. pedigree: BR 2119-DAK X PUNJAB 47 3. Seed.

PI 523779 donor id: Cili 2521. origin: United States. pedigree: BR B502-IMP X PUNJAB 47 3. Seed.

PI 523780 donor id: Cili 2524. origin: United States. pedigree: ISO-80-RWD X CI 1455AA. Seed.

PI 523781 donor id: Cili 2525. origin: United States. pedigree: 61-2486-RWD X MAR 79. Seed.

PI 523782 donor id: Cili 2526. origin: France. cultivar: EMERAUDE. Seed.

PI 523783 donor id: Cili 2527. origin: France. cultivar: JADE. Seed.

PI 523784 donor id: Cili 2534. origin: United States. pedigree: SEL OF NORLAND. Seed.

PI 523785 donor id: Cili 2535. origin: Canada. pedigree: F P 497 (VALUTA X RAJA). Seed.

PI 523786 donor id: Cili 2536. origin: Australia. cultivar: NEXT. Seed.

PI 523787 donor id: Cili 2537. origin: United States. pedigree: SEL OF CI 2444 (RWD X BIRIO). Seed.

PI 523788 donor id: Cili 2538. origin: United States. pedigree: WINDOM X CI 2138. Seed.

PI 523789 donor id: Cili 2539. origin: United States. pedigree: NORTH DAKOTA NO 292. Seed.

PI 523790 donor id: Cili 2540. origin: United States. pedigree: NORTH DAKOTA NO 293. Seed.

PI 523791 donor id: Cili 2541. origin: United States. pedigree: NORTH DAKOTA NO 375. Seed.

PI 522539 to 523982-continued

PI 523792	donor id: Cili 2542. NORTH DAKOTA NO 385.	origin: United States.	pedigree: Seed.
PI 523793	donor id: Cili 2543. NORTH DAKOTA NO 389.	origin: United States.	pedigree: Seed.
PI 523794	donor id: Cili 2544. NORTH DAKOTA NO 427.	origin: United States.	pedigree: Seed.
PI 523795	donor id: Cili 2545. NORTH DAKOTA NO 436.	origin: United States.	pedigree: Seed.
PI 523796	donor id: Cili 2546. NORTH DAKOTA NO 520.	origin: United States.	pedigree: Seed.
PI 523797	donor id: Cili 2562.	origin: Argentina.	Seed.
PI 523798	donor id: Cili 2563.	origin: Argentina.	Seed.
PI 523799	donor id: Cili 2564.	origin: Argentina.	Seed.
PI 523800	donor id: Cili 2565.	origin: Argentina.	Seed.
PI 523801	donor id: Cili 2566.	origin: Australia.	Seed.
PI 523802	donor id: Cili 2567.	origin: Australia.	Seed.
PI 523803	donor id: Cili 2568.	origin: Australia.	Seed.
PI 523804	donor id: Cili 2569.	origin: Australia.	Seed.
PI 523805	donor id: Cili 2570.	origin: Australia.	Seed.
PI 523806	donor id: Cili 2571.	origin: Australia.	Seed.
PI 523807	donor id: Cili 2572.	origin: Australia.	Seed.
PI 523808	donor id: Cili 2573.	origin: Australia.	Seed.
PI 523809	donor id: Cili 2574.	origin: Australia.	Seed.
PI 523810	donor id: Cili 2575.	origin: Australia.	Seed.
PI 523811	donor id: Cili 2576.	origin: Australia.	Seed.
PI 523812	donor id: Cili 2577.	origin: Australia.	Seed.
PI 523813	donor id: Cili 2578.	origin: Australia.	Seed.
PI 523814	donor id: Cili 2580.	origin: Australia.	Seed.
PI 523815	donor id: Cili 2581.	origin: Poland.	Seed.

PI 522539 to 523982-continued

PI 523816	donor id: CILI 2582.	origin: Poland.	Seed.
PI 523817	donor id: CILI 2583.	origin: Poland.	Seed.
PI 523818	donor id: CILI 2584.	origin: Poland.	Seed.
PI 523819	donor id: CILI 2585.	origin: Poland.	Seed.
PI 523820	donor id: CILI 2586.	origin: Poland.	Seed.
PI 523821	donor id: CILI 2587.	origin: Poland.	Seed.
PI 523822	donor id: CILI 2588.	origin: Poland.	Seed.
PI 523823	donor id: CILI 2589.	origin: Poland.	Seed.
PI 523824	donor id: CILI 2590.	origin: Poland.	Seed.
PI 523825	donor id: CILI 2591.	origin: Poland.	Seed.
PI 523826	donor id: CILI 2592.	origin: Poland.	Seed.
PI 523827	donor id: CILI 2593.	origin: Poland.	Seed.
PI 523828	donor id: CILI 2594.	origin: Poland.	Seed.
PI 523829	donor id: CILI 2595.	origin: Poland.	Seed.
PI 523830	donor id: CILI 2596.	origin: Poland.	Seed.
PI 523831	donor id: CILI 2598.	origin: Poland.	Seed.
PI 523832	donor id: CILI 2599.	origin: Poland.	Seed.
PI 523833	donor id: CILI 2600.	origin: Poland.	Seed.
PI 523834	donor id: CILI 2601.	origin: Poland.	Seed.
PI 523835	donor id: CILI 2602.	origin: Poland.	Seed.
PI 523836	donor id: CILI 2603.	origin: Poland.	Seed.
PI 523837	donor id: CILI 2604.	origin: Poland.	Seed.
PI 523838	donor id: CILI 2605.	origin: Poland.	Seed.
PI 523839	donor id: CILI 2607.	origin: Poland.	Seed.
PI 523840	donor id: CILI 2608.	origin: Poland.	Seed.
PI 523841	donor id: CILI 2610.	origin: Poland.	Seed.



PI 522539 to 523982-continued

PI 523842	donor id: Cili 2611.	origin: Poland.	Seed.
PI 523843	donor id: Cili 2613.	origin: Poland.	Seed.
PI 523844	donor id: Cili 2614.	origin: Poland.	Seed.
PI 523845	donor id: Cili 2615.	origin: Poland.	Seed.
PI 523846	donor id: Cili 2616.	origin: Poland.	Seed.
PI 523847	donor id: Cili 2617.	origin: Poland.	Seed.
PI 523848	donor id: Cili 2618.	origin: Poland.	Seed.
PI 523849	donor id: Cili 2619.	origin: Poland.	Seed.
PI 523850	donor id: Cili 2620.	origin: Poland.	Seed.
PI 523851	donor id: Cili 2621.	origin: Poland.	Seed.
PI 523852	donor id: Cili 2623.	origin: Poland.	Seed.
PI 523853	donor id: Cili 2625.	origin: Poland.	Seed.
PI 523854	donor id: Cili 2626.	origin: Poland.	Seed.
PI 523855	donor id: Cili 2627.	origin: Poland.	Seed.
PI 523856	donor id: Cili 2628.	origin: Poland.	Seed.
PI 523857	donor id: Cili 2629.	origin: Poland.	Seed.
PI 523858	donor id: Cili 2630.	origin: Poland.	Seed.
PI 523859	donor id: Cili 2631.	origin: Poland.	Seed.
PI 523860	donor id: Cili 2632.	origin: Poland.	Seed.
PI 523861	donor id: Cili 2633.	origin: Poland.	Seed.
PI 523862	donor id: Cili 2634.	origin: Poland.	Seed.
PI 523863	donor id: Cili 2635.	origin: Poland.	Seed.
PI 523864	donor id: Cili 2636.	origin: Poland.	Seed.
PI 523865	donor id: Cili 2637.	origin: Poland.	Seed.
PI 523866	donor id: Cili 2638.	origin: Poland.	Seed.
PI 523867	donor id: Cili 2639.	origin: Poland.	Seed.

PI 522539 to 523982-continued

PI 523868	donor id: Cili 2640.	origin: Poland.	Seed.
PI 523869	donor id: Cili 2641.	origin: Poland.	Seed.
PI 523870	donor id: Cili 2642.	origin: Poland.	Seed.
PI 523871	donor id: Cili 2643.	origin: Poland.	Seed.
PI 523872	donor id: Cili 2645.	origin: France.	Seed.
PI 523873	donor id: Cili 2646.	origin: France.	Seed.
PI 523874	donor id: Cili 2647.	origin: France.	Seed.
PI 523875	donor id: Cili 2648.	origin: France.	Seed.
PI 523876	donor id: Cili 2652.	origin: France.	Seed.
PI 523877	donor id: Cili 2653.	origin: France.	Seed.
PI 523878	donor id: Cili 2654.	origin: France.	Seed.
PI 523879	donor id: Cili 2655.	origin: France.	Seed.
PI 523880	donor id: Cili 2656.	origin: France.	Seed.
PI 523881	donor id: Cili 2657.	origin: France.	Seed.
PI 523882	donor id: Cili 2658.	origin: France.	Seed.
PI 523883	donor id: Cili 2659.	origin: France.	Seed.
PI 523884	donor id: Cili 2660.	origin: France.	Seed.
PI 523885	donor id: Cili 2661.	origin: France.	Seed.
PI 523886	donor id: Cili 2664.	origin: France.	Seed.
PI 523887	donor id: Cili 2666.	origin: France.	Seed.
PI 523888	donor id: Cili 2668.	origin: France.	Seed.
PI 523889	donor id: Cili 2669.	origin: France.	Seed.
PI 523890	donor id: Cili 2670.	origin: France.	Seed.
PI 523891	donor id: Cili 2671.	origin: France.	Seed.
PI 523892	donor id: Cili 2673.	origin: France.	Seed.
PI 523893	donor id: Cili 2674.	origin: France.	Seed.

PI 522539 to 523982-continued

PI 523894	donor id: Cili 2675.	origin: France.	Seed.
PI 523895	donor id: Cili 2676.	origin: France.	Seed.
PI 523896	donor id: Cili 2677.	origin: France.	Seed.
PI 523897	donor id: Cili 2678.	origin: France.	Seed.
PI 523898	donor id: Cili 2679.	origin: France.	Seed.
PI 523899	donor id: Cili 2682.	origin: France.	Seed.
PI 523900	donor id: Cili 2683.	origin: France.	Seed.
PI 523901	donor id: Cili 2684.	origin: France.	Seed.
PI 523902	donor id: Cili 2685.	origin: France.	Seed.
PI 523903	donor id: Cili 2686.	origin: France.	Seed.
PI 523904	donor id: Cili 2687.	origin: France.	Seed.
PI 523905	donor id: Cili 2688.	origin: France.	Seed.
PI 523906	donor id: Cili 2689.	origin: France.	Seed.
PI 523907	donor id: Cili 2690.	origin: France.	Seed.
PI 523908	donor id: Cili 2691.	origin: France.	Seed.
PI 523909	donor id: Cili 2692.	origin: France.	Seed.
PI 523910	donor id: Cili 2693.	origin: France.	Seed.
PI 523911	donor id: Cili 2694.	origin: France.	Seed.
PI 523912	donor id: Cili 2695.	origin: France.	Seed.
PI 523913	donor id: Cili 2696.	origin: France.	Seed.
PI 523914	donor id: Cili 2697.	origin: France.	Seed.
PI 523915	donor id: Cili 2698.	origin: France.	Seed.
PI 523916	donor id: Cili 2699.	origin: France.	Seed.
PI 523917	donor id: Cili 2700.	origin: France.	Seed.
PI 523918	donor id: Cili 2701.	origin: France.	Seed.
PI 523919	donor id: Cili 2702.	origin: France.	Seed.

PI 522539 to 523982-continued

PI 523920	donor id: Cili 2706.	origin: France.	Seed.
PI 523921	donor id: Cili 2707.	origin: France.	Seed.
PI 523922	donor id: Cili 2708.	origin: France.	Seed.
PI 523923	donor id: Cili 2709.	origin: France.	Seed.
PI 523924	donor id: Cili 2710.	origin: France.	Seed.
PI 523925	donor id: Cili 2712.	origin: France.	Seed.
PI 523926	donor id: Cili 2713.	origin: France.	Seed.
PI 523927	donor id: Cili 2714.	origin: France.	Seed.
PI 523928	donor id: Cili 2715.	origin: France.	Seed.
PI 523929	donor id: Cili 2716.	origin: France.	Seed.
PI 523930	donor id: Cili 2717.	origin: France.	Seed.
PI 523931	donor id: Cili 2718.	origin: France.	Seed.
PI 523932	donor id: Cili 2719.	origin: France.	Seed.
PI 523933	donor id: Cili 2720.	origin: France.	Seed.
PI 523934	donor id: Cili 2721.	origin: France.	Seed.
PI 523935	donor id: Cili 2722.	origin: France.	Seed.
PI 523936	donor id: Cili 2723.	origin: France.	Seed.
PI 523937	donor id: Cili 2724.	origin: France.	Seed.
PI 523938	donor id: Cili 2725.	origin: France.	Seed.
PI 523939	donor id: Cili 2726.	origin: France.	Seed.
PI 523940	donor id: Cili 2727.	origin: France.	Seed.
PI 523941	donor id: Cili 2728.	origin: France.	Seed.
PI 523942	donor id: Cili 2729.	origin: France.	Seed.
PI 523943	donor id: Cili 2730.	origin: France.	Seed.
PI 523944	donor id: Cili 2731.	origin: France.	Seed.
PI 523945	donor id: Cili 2732.	origin: France.	Seed.

PI 522539 to 523982-continued

PI 523946	donor id: Cili 2733.	origin: France.	Seed.
PI 523947	donor id: Cili 2734.	origin: France.	Seed.
PI 523948	donor id: Cili 2735.	origin: France.	Seed.
PI 523949	donor id: Cili 2736.	origin: France.	Seed.
PI 523950	donor id: Cili 2737.	origin: France.	Seed.
PI 523951	donor id: Cili 2738.	origin: France.	Seed.
PI 523952	donor id: Cili 2739.	origin: France.	Seed.
PI 523953	donor id: Cili 2741.	origin: France.	Seed.
PI 523954	donor id: Cili 2742.	origin: France.	Seed.
PI 523955	donor id: Cili 2744.	origin: France.	Seed.
PI 523956	donor id: Cili 2745.	origin: France.	Seed.
PI 523957	donor id: Cili 2746.	origin: France.	Seed.
PI 523958	donor id: Cili 2747.	origin: France.	Seed.
PI 523959	donor id: Cili 2748.	origin: France.	Seed.
PI 523960	donor id: Cili 2749.	origin: France.	Seed.
PI 523961	donor id: Cili 2750.	origin: France.	Seed.
PI 523962	donor id: Cili 2751.	origin: France.	Seed.
PI 523963	donor id: Cili 2752.	origin: France.	Seed.
PI 523964	donor id: Cili 2753.	origin: France.	Seed.
PI 523965	donor id: Cili 2754.	origin: France.	Seed.
PI 523966	donor id: Cili 2755.	origin: France.	Seed.
PI 523967	donor id: Cili 2756.	origin: France.	Seed.
PI 523968	donor id: Cili 2757.	origin: France.	cultivar: STENDEZ. Seed.
PI 523969	donor id: Cili 2758.	origin: France.	Seed.
PI 523970	donor id: Cili 2759.	origin: France.	Seed.
PI 523971	donor id: Cili 2760.	origin: France.	Seed.

PI 522539 to 523982-continued

- PI 523972 donor id: Cili 2761. origin: France. Seed.  
PI 523973 donor id: Cili 2762. origin: France. Seed.  
PI 523974 donor id: Cili 2763. origin: France. Seed.  
PI 523975 donor id: Cili 2764. origin: France. Seed.  
PI 523976 donor id: Cili 2765. origin: France. Seed.  
PI 523977 donor id: Cili 2766. origin: France. Seed.  
PI 523978 donor id: Cili 2767. origin: United States. Seed.  
PI 523979 donor id: Cili 2768. origin: United States. Seed.  
PI 523980 donor id: Cili 2769. origin: United States. Seed.  
PI 523981 donor id: Cili 2770. origin: Turkey. Seed.  
PI 523982 donor id: Cili 2771. origin: Ethiopia. Seed.

PI 523983 to 523984. *Linum usitatissimum* L. LINACEAE Flax

Donated by: National Seed Storage Laboratory, Fort Collins, Colorado, United States. remarks: Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by Minnesota AES. Received September 1988.

- PI 523983 donor id: NSL 67041. origin: UNKNOWN. cultivar: NORED. Seed.  
PI 523984 donor id: NSL 90519. origin: UNKNOWN. cultivar: CULBERT. Seed.

PI 523985. *Linum usitatissimum* L. LINACEAE Flax

Donated by: Flax Collection, North Dakota State University, Fargo, North Dakota, United States. remarks: Accessions without PI-numbers at FLAX site; renumbered 9/88. Originally donated by Minnesota AES. Received September 1988.

donor id: Cili 645. origin: United States. cultivar: WALSH. Seed.

PI 523986 to 523989. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** National Seed Storage Laboratory, Fort Collins, Colorado, United States. **remarks:** Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by North Dakota AES. Received September 1988.

PI 523986 donor id: NSL 2848. origin: UNKNOWN. cultivar: BISON. Seed.

PI 523987 donor id: NSL 2855. origin: UNKNOWN. cultivar: BUDA. Seed.

PI 523988 donor id: NSL 5544. origin: UNKNOWN. cultivar: B5128(SS). Seed.

PI 523989 donor id: NSL 5545. origin: UNKNOWN. cultivar: RAJA. Seed.

PI 523990 to 523993. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** Flax Collection, North Dakota State University, Fargo, North Dakota, United States. **remarks:** Accessions without PI-numbers at FLAX site; renumbered 9/88. Originally donated by North Dakota AES. Received September 1988.

PI 523990 donor id: Cili 977. origin: United States. pedigree: SEL B GOLDEN R522 DE ORO. Seed.

PI 523991 donor id: Cili 1045. origin: United States. cultivar: VICTORY. Seed.

PI 523992 donor id: Cili 1165. origin: United States. cultivar: LINDA. Seed.

PI 523993 donor id: Cili 2523. origin: United States. cultivar: FOSTER. Seed.

PI 523994. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** Flax Collection, North Dakota State University, Fargo, North Dakota, United States. **remarks:** Accessions without PI-numbers at FLAX site; renumbered 9/88. Originally donated by Oregon AES. Received September 1988.

donor id: Cili 1742. origin: United States. cultivar: LINORE. pedigree: 48W. Seed.

PI 523995. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** National Seed Storage Laboratory, Fort Collins, Colorado, United States. **remarks:** Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by Dept. of Plant Pathol., U. of Minn., St. Paul, MN 55108. Received September 1988.

**donor id:** NSL 86653. **origin:** UNKNOWN. **cultivar:** MARINE 62. **Seed.**

PI 523996 to 523997. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** National Seed Storage Laboratory, Fort Collins, Colorado, United States. **remarks:** Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by Texas AES. Received September 1988.

PI 523996 **donor id:** Cili 862. **origin:** UNKNOWN. **cultivar:** NEWTURK. **Seed.**

PI 523997 **donor id:** NSL 32716. **origin:** UNKNOWN. **cultivar:** DILLMAN. **Seed.**

PI 523998. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** Flax Collection, North Dakota State University, Fargo, North Dakota, United States. **remarks:** Accessions without PI-numbers at FLAX site; renumbered 9/88. Originally donated by Texas AES. Received September 1988.

**donor id:** Cili 1910. **origin:** United States. **cultivar:** MAC. **Seed.**

PI 523999 to 524090. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** National Seed Storage Laboratory, Fort Collins, Colorado, United States. **remarks:** Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by C. A. Erickson, Soil & Crop Sci. Dept., Small Grains, Texas A&M, College Station, TX. Received September 1988.

PI 523999 **donor id:** NSL 142938. **origin:** United States. **pedigree:** 66C224-14. **Seed.**

PI 524000 **donor id:** NSL 142939. **origin:** United States. **pedigree:** 67B150-6. **Seed.**

PI 524001 **donor id:** NSL 142940. **origin:** United States. **pedigree:** 67D9-5. **Seed.**



PI 523999 to 524090-continued

PI 524002	donor id: NSL 142941. 67D9-8. Seed.	origin: United States.	pedigree:
PI 524003	donor id: NSL 142942. 67D9-11. Seed.	origin: United States.	pedigree:
PI 524004	donor id: NSL 142943. 67D19-7. Seed.	origin: United States.	pedigree:
PI 524005	donor id: NSL 142944. 67D28-10. Seed.	origin: United States.	pedigree:
PI 524006	donor id: NSL 142945. 67D28-25. Seed.	origin: United States.	pedigree:
PI 524007	donor id: NSL 142946. 67D56-32. Seed.	origin: United States.	pedigree:
PI 524008	donor id: NSL 142947. 67D139-9. Seed.	origin: United States.	pedigree:
PI 524009	donor id: NSL 142948. 72B1. Seed.	origin: United States.	pedigree:
PI 524010	donor id: NSL 142949. 72B10. Seed.	origin: United States.	pedigree:
PI 524011	donor id: NSL 142950. 72B11. Seed.	origin: United States.	pedigree:
PI 524012	donor id: NSL 142951. 72B12. Seed.	origin: United States.	pedigree:
PI 524013	donor id: NSL 142952. 72B13. Seed.	origin: United States.	pedigree:
PI 524014	donor id: NSL 142953. 72B14. Seed.	origin: United States.	pedigree:
PI 524015	donor id: NSL 142954. 72B15. Seed.	origin: United States.	pedigree:
PI 524016	donor id: NSL 142955. 72B16. Seed.	origin: United States.	pedigree:
PI 524017	donor id: NSL 142956. 72B18. Seed.	origin: United States.	pedigree:
PI 524018	donor id: NSL 142957. 72B21. Seed.	origin: United States.	pedigree:

PI 523999 to 524090-continued

PI 524019	donor id: NSL 142958. 72B22. Seed.	origin: United States.	pedigree:
PI 524020	donor id: NSL 142959. 72B25. Seed.	origin: United States.	pedigree:
PI 524021	donor id: NSL 142960. 72B28. Seed.	origin: United States.	pedigree:
PI 524022	donor id: NSL 142961. 72B29. Seed.	origin: United States.	pedigree:
PI 524023	donor id: NSL 142962. 72B30. Seed.	origin: United States.	pedigree:
PI 524024	donor id: NSL 142963. 72B31. Seed.	origin: United States.	pedigree:
PI 524025	donor id: NSL 142964. 72B37. Seed.	origin: United States.	pedigree:
PI 524026	donor id: NSL 142965. 72B38. Seed.	origin: United States.	pedigree:
PI 524027	donor id: NSL 142966. 72B39. Seed.	origin: United States.	pedigree:
PI 524028	donor id: NSL 142967. 72B43. Seed.	origin: United States.	pedigree:
PI 524029	donor id: NSL 142968. 72B49. Seed.	origin: United States.	pedigree:
PI 524030	donor id: NSL 142969. 72B55. Seed.	origin: United States.	pedigree:
PI 524031	donor id: NSL 142970. 72B58. Seed.	origin: United States.	pedigree:
PI 524032	donor id: NSL 142971. 72B59. Seed.	origin: United States.	pedigree:
PI 524033	donor id: NSL 142972. 72B65. Seed.	origin: United States.	pedigree:
PI 524034	donor id: NSL 142973. 72B67. Seed.	origin: United States.	pedigree:
PI 524035	donor id: NSL 142974. 72B70. Seed.	origin: United States.	pedigree:

PI 523999 to 524090-continued

PI 524036	donor id: NSL 142975. 72B71. Seed.	origin: United States.	pedigree:
PI 524037	donor id: NSL 142976. 72B72. Seed.	origin: United States.	pedigree:
PI 524038	donor id: NSL 142977. 72B77. Seed.	origin: United States.	pedigree:
PI 524039	donor id: NSL 142978. 71B79. Seed.	origin: United States.	pedigree:
PI 524040	donor id: NSL 142979. 72B80. Seed.	origin: United States.	pedigree:
PI 524041	donor id: NSL 142980. 72B82. Seed.	origin: United States.	pedigree:
PI 524042	donor id: NSL 142981. 72B85. Seed.	origin: United States.	pedigree:
PI 524043	donor id: NSL 142982. 72B86. Seed.	origin: United States.	pedigree:
PI 524044	donor id: NSL 142983. 72B87. Seed.	origin: United States.	pedigree:
PI 524045	donor id: NSL 142984. 72B88. Seed.	origin: United States.	pedigree:
PI 524046	donor id: NSL 142985. 72B89. Seed.	origin: United States.	pedigree:
PI 524047	donor id: NSL 142986. 72B90. Seed.	origin: United States.	pedigree:
PI 524048	donor id: NSL 142987. 72B93. Seed.	origin: United States.	pedigree:
PI 524049	donor id: NSL 142988. 72B97. Seed.	origin: United States.	pedigree:
PI 524050	donor id: NSL 142989. 72B98. Seed.	origin: United States.	pedigree:
PI 524051	donor id: NSL 142990. 72B101. Seed.	origin: United States.	pedigree:
PI 524052	donor id: NSL 142991. 72B104. Seed.	origin: United States.	pedigree:

PI 523999 to 524090-continued

PI 524053	donor id: NSL 142992. 72B108. Seed.	origin: United States.	pedigree:
PI 524054	donor id: NSL 142993. 72B113. Seed.	origin: United States.	pedigree:
PI 524055	donor id: NSL 142994. 72B116. Seed.	origin: United States.	pedigree:
PI 524056	donor id: NSL 142995. 72B117. Seed.	origin: United States.	pedigree:
PI 524057	donor id: NSL 142996. 72B119. Seed.	origin: United States.	pedigree:
PI 524058	donor id: NSL 142997. 72B120. Seed.	origin: United States.	pedigree:
PI 524059	donor id: NSL 142998. TAM F-201. Seed.	origin: United States.	cultivar:
PI 524060	donor id: NSL 142999. X75T1. Seed.	origin: United States.	pedigree:
PI 524061	donor id: NSL 143000. X75T42. Seed.	origin: United States.	pedigree:
PI 524062	donor id: NSL 143001. X75T45. Seed.	origin: United States.	pedigree:
PI 524063	donor id: NSL 143002. X75T63. Seed.	origin: United States.	pedigree:
PI 524064	donor id: NSL 143003. X75T64. Seed.	origin: United States.	pedigree:
PI 524065	donor id: NSL 143004. X75T66. Seed.	origin: United States.	pedigree:
PI 524066	donor id: NSL 143005. X75T83. Seed.	origin: United States.	pedigree:
PI 524067	donor id: NSL 143006. X75T126. Seed.	origin: United States.	pedigree:
PI 524068	donor id: NSL 143007. X75T127. Seed.	origin: United States.	pedigree:
PI 524069	donor id: NSL 143008. X75T129. Seed.	origin: United States.	pedigree:

PI 523999 to 524090-continued

PI 524070	donor id: NSL 143009. X75T168. Seed.	origin: United States.	pedigree:
PI 524071	donor id: NSL 143010. X75T169. Seed.	origin: United States.	pedigree:
PI 524072	donor id: NSL 143011. X75T171. Seed.	origin: United States.	pedigree:
PI 524073	donor id: NSL 143012. X75T209. Seed.	origin: United States.	pedigree:
PI 524074	donor id: NSL 143013. X75T210. Seed.	origin: United States.	pedigree:
PI 524075	donor id: NSL 143014. X75T254. Seed.	origin: United States.	pedigree:
PI 524076	donor id: NSL 143015. X75T250. Seed.	origin: United States.	pedigree:
PI 524077	donor id: NSL 143016. X75T251. Seed.	origin: United States.	pedigree:
PI 524078	donor id: NSL 143017. X75T255. Seed.	origin: United States.	pedigree:
PI 524079	donor id: NSL 143018. X75T294. Seed.	origin: United States.	pedigree:
PI 524080	donor id: NSL 143019. X75T335. Seed.	origin: United States.	pedigree:
PI 524081	donor id: NSL 143020. X75T336. Seed.	origin: United States.	pedigree:
PI 524082	donor id: NSL 143021. X75T337. Seed.	origin: United States.	pedigree:
PI 524083	donor id: NSL 143022. 67D1108. Seed.	origin: United States.	pedigree:
PI 524084	donor id: NSL 143023. 67D1150. Seed.	origin: United States.	pedigree:
PI 524085	donor id: NSL 143024. 67D1283. Seed.	origin: United States.	pedigree:
PI 524086	donor id: NSL 143025. 67I902. Seed.	origin: United States.	pedigree:

PI 523999 to 524090-continued

PI 524087 donor id: NSL 143026. origin: United States. pedigree: 67I903. Seed.

PI 524088 donor id: NSL 143027. origin: United States. pedigree: 67I941. Seed.

PI 524089 donor id: NSL 143028. origin: United States. pedigree: 67I943. Seed.

PI 524090 donor id: NSL 143029. origin: United States. pedigree: 67I1738. Seed.

PI 524091. *Linum usitatissimum* L. LINACEAE Flax

Donated by: Flax Collection, North Dakota State University, Fargo, North Dakota, United States. remarks: Accessions without PI-numbers at FLAX site; renumbered 9/88. Originally donated by E. Kenaschuk, P.O. Box 3001, CDA Research Station, Morden, Manitoba, Canada R0G 1J0. Received September 1988.

donor id: Cili 2522. origin: Canada. cultivar: LINOTT. Seed.

PI 524092 to 524093. *Linum usitatissimum* L. LINACEAE Flax

Donated by: National Seed Storage Laboratory, Fort Collins, Colorado, United States. remarks: Accessions without PI-numbers at NSSL; renumbered 9/88. Originally donated by C. Lay, Plant Sci. Dept., P.O. Box 2207-A, S.D.S.U., Brookings, SD 57007. Received September 1988.

PI 524092 donor id: NSL 202872. origin: United States. cultivar: Rahab.

PI 524093 donor id: NSL 204525. origin: United States. cultivar: Clark.

PI 524094. *Linum usitatissimum* L. LINACEAE Flax

Donated by: Flax Collection, North Dakota State University, Fargo, North Dakota, United States. remarks: Accessions without PI-numbers at FLAX site; renumbered 9/88. Originally donated by C. Lay, Plant Science Dept., P.O. Box 2207-A, S.D.S.U., Brookings, South Dakota. Received September 1988.

donor id: Cili 2838. origin: United States. cultivar: CULBERT 79. Seed.

PI 524095 to 524420. *Linum usitatissimum* L. LINACEAE Flax

**Donated by:** Flax Collection, North Dakota State University, Fargo, North Dakota, United States. **remarks:** Accessions without PI-numbers at FLAX site; renumbered 9/88. Originally donated by F. R. Miller, Texas AES, College Station, Texas 77843. Received September 1988.

- PI 524095 donor id: Cili 386. origin: United States. cultivar: COMMON. Seed.
- PI 524096 donor id: Cili 400. origin: United States. pedigree: LONG NO 4. Seed.
- PI 524097 donor id: Cili 421. origin: United States. pedigree: SEL WHITE SAGINAW. Seed.
- PI 524098 donor id: Cili 498. origin: Soviet Union. cultivar: DOLGUNETZ. Seed.
- PI 524099 donor id: Cili 520. origin: Soviet Union. Seed.
- PI 524100 donor id: Cili 537. origin: Soviet Union. Seed.
- PI 524101 donor id: Cili 710. origin: India. pedigree: TYPE 124. Seed.
- PI 524102 donor id: Cili 760. origin: Soviet Union. pedigree: DEHISCENT (L CREPITANS). Seed.
- PI 524103 donor id: Cili 770. origin: Netherlands. pedigree: TAMMES TYPE 6. Seed.
- PI 524104 donor id: Cili 799. origin: Netherlands. cultivar: DORST. pedigree: I 13. Seed.
- PI 524105 donor id: Cili 883. origin: Canada. cultivar: STORMONT GOSSAMER. Seed.
- PI 524106 donor id: Cili 917. origin: United States. cultivar: BIWING. Seed.
- PI 524107 donor id: Cili 1016. origin: Portugal. pedigree: CREPITANS (NOLAR E449). Seed.
- PI 524108 donor id: Cili 1044. origin: United States. pedigree: BUDA 80 X (B GOLDEN X RIO). Seed.
- PI 524109 donor id: Cili 1073. origin: United States. cultivar: SHEYENNE. Seed.
- PI 524110 donor id: Cili 1135. origin: United States. cultivar: MARINE. Seed.

PI 524095 to 524420-continued

- PI 524111 donor id: Cili 1140. origin: United States. pedigree: BIWING X CI 980 (II-40-34). Seed.
- PI 524112 donor id: Cili 1150. origin: Iran. cultivar: BANDAR. Seed.
- PI 524113 donor id: Cili 1162. origin: Canada. pedigree: ROYAL X REDWING. Seed.
- PI 524114 donor id: Cili 1207. origin: Argentina. pedigree: PERGAMINO 6808-4. Seed.
- PI 524115 donor id: Cili 1318. origin: India. Seed.
- PI 524116 donor id: Cili 1381. origin: Netherlands. cultivar: REMBRANDT. Seed.
- PI 524117 donor id: Cili 1506. origin: Japan. cultivar: SAGINO NO 2. Seed.
- PI 524118 donor id: Cili 1528. origin: Ethiopia. Seed.
- PI 524119 donor id: Cili 1530. origin: Ethiopia. cultivar: TALASMO. Seed.
- PI 524120 donor id: Cili 1537. origin: India. pedigree: CAWNPORE NO 843. Seed.
- PI 524121 donor id: Cili 1552. origin: India. pedigree: TYPE 11. Seed.
- PI 524122 donor id: Cili 1572. origin: India. pedigree: INDIAN TYPE B65. Seed.
- PI 524123 donor id: Cili 1573. origin: India. pedigree: INDIAN TYPE 68. Seed.
- PI 524124 donor id: Cili 1574. origin: India. pedigree: INDIAN TYPE 121. Seed.
- PI 524125 donor id: Cili 1631. origin: Afghanistan. pedigree: NO 536. Seed.
- PI 524126 donor id: Cili 1658. origin: Ireland. cultivar: ARNY. Seed.
- PI 524127 donor id: Cili 1659. origin: United States. pedigree: 975 X B5128 (II-44-7-MINN). Seed.
- PI 524128 donor id: Cili 1660. origin: United States. pedigree: 116 X 117 (II-45-25). Seed.



PI 524095 to 524420-continued

- PI 524129 donor id: Cili 1661. origin: United States. cultivar: MARINE-62. Seed.
- PI 524130 donor id: Cili 1663. origin: United States. pedigree: RENEWBISON(KOTOXREDWING)(RWD). Seed.
- PI 524131 donor id: Cili 1664. origin: United States. pedigree: SEL FROM CI 1559 (III-55-1). Seed.
- PI 524132 donor id: Cili 1665. origin: United States. pedigree: SS 5128. Seed.
- PI 524133 donor id: Cili 1666. origin: United States. pedigree: SHEYENNE X CI 1332 (56-3-33). Seed.
- PI 524134 donor id: Cili 1667. origin: United States. pedigree: CI 1118 X CI 1116(56-3-37). Seed.
- PI 524135 donor id: Cili 1668. origin: United States. pedigree: REDWOOD X CI 1116 (56-3-39). Seed.
- PI 524136 donor id: Cili 1670. origin: Canada. pedigree: ROCKET X 1132. Seed.
- PI 524137 donor id: Cili 1671. origin: Argentina. cultivar: KUGINE. Seed.
- PI 524138 donor id: Cili 1672. origin: Turkey. pedigree: FIELD N 17. Seed.
- PI 524139 donor id: Cili 1673. origin: India. pedigree: FIELD NO 13884. Seed.
- PI 524140 donor id: Cili 1675. origin: Ethiopia. pedigree: NO 397. Seed.
- PI 524141 donor id: Cili 1676. origin: Ethiopia. pedigree: NO 412. Seed.
- PI 524142 donor id: Cili 1677. origin: Iran. pedigree: NO 14691. Seed.
- PI 524143 donor id: Cili 1681. origin: Hungary. cultivar: SZEREPI. Seed.
- PI 524144 donor id: Cili 1682. origin: Monaco. pedigree: NO 10. Seed.
- PI 524145 donor id: Cili 1683. origin: Monaco. pedigree: NO 11. Seed.

PI 524095 to 524420-continued

PI 524146 donor id: Cili 1684. origin: Monaco. pedigree: NO 129.  
Seed.

PI 524147 donor id: Cili 1686. origin: Morocco. pedigree: NO 547.  
Seed.

PI 524148 donor id: Cili 1687. origin: Morocco. pedigree: NO 548.  
Seed.

PI 524149 donor id: Cili 1689. origin: Morocco. pedigree: NO L G  
0195-4. Seed.

PI 524150 donor id: Cili 1693. origin: Morocco. pedigree: 1051.  
Seed.

PI 524151 donor id: Cili 1696. origin: United States. pedigree:  
2W WINTER TYPE. Seed.

PI 524152 donor id: Cili 1701. origin: United States. pedigree:  
7W WINTER TYPE. Seed.

PI 524153 donor id: Cili 1702. origin: United States. pedigree:  
8W WINTER TYPE. Seed.

PI 524154 donor id: Cili 1707. origin: United States. pedigree:  
13W WINTER TYPE. Seed.

PI 524155 donor id: Cili 1708. origin: United States. pedigree:  
14W WINTER TYPE. Seed.

PI 524156 donor id: Cili 1709. origin: United States. pedigree:  
15W WINTER TYPE. Seed.

PI 524157 donor id: Cili 1715. origin: United States. pedigree:  
21W WINTER TYPE. Seed.

PI 524158 donor id: Cili 1719. origin: United States. pedigree:  
25W WINTER TYPE. Seed.

PI 524159 donor id: Cili 1725. origin: United States. pedigree:  
31W WINTER TYPE. Seed.

PI 524160 donor id: Cili 1728. origin: United States. pedigree:  
34W WINTER TYPE. Seed.

PI 524161 donor id: Cili 1730. origin: United States. pedigree:  
36W WINTER TYPE. Seed.

PI 524162 donor id: Cili 1731. origin: United States. pedigree:  
37W WINTER TYPE. Seed.

PI 524095 to 524420-continued

PI 524163	donor id: Cili 1732.	origin: United States.	pedigree: 38W WINTER TYPE. Seed.
PI 524164	donor id: Cili 1733.	origin: United States.	pedigree: 39W WINTER TYPE. Seed.
PI 524165	donor id: Cili 1734.	origin: United States.	pedigree: 40W WINTER TYPE. Seed.
PI 524166	donor id: Cili 1735.	origin: United States.	pedigree: 41W WINTER TYPE. Seed.
PI 524167	donor id: Cili 1736.	origin: United States.	pedigree: 42W WINTER TYPE. Seed.
PI 524168	donor id: Cili 1738.	origin: United States.	pedigree: 44W WINTER TYPE. Seed.
PI 524169	donor id: Cili 1740.	origin: United States.	pedigree: 46W WINTER TYPE. Seed.
PI 524170	donor id: Cili 1746.	origin: United States.	pedigree: 52W WINTER TYPE. Seed.
PI 524171	donor id: Cili 1752.	origin: United States.	Seed.
PI 524172	donor id: Cili 1753.	origin: United States.	Seed.
PI 524173	donor id: Cili 1754.	origin: United States.	Seed.
PI 524174	donor id: Cili 1756.	origin: United States.	Seed.
PI 524175	donor id: Cili 1757.	origin: United States.	Seed.
PI 524176	donor id: Cili 1758.	origin: United States.	Seed.
PI 524177	donor id: Cili 1759.	origin: United States.	Seed.
PI 524178	donor id: Cili 1760.	origin: United States.	Seed.
PI 524179	donor id: Cili 1761.	origin: United States.	Seed.
PI 524180	donor id: Cili 1762.	origin: United States.	Seed.
PI 524181	donor id: Cili 1763.	origin: United States.	Seed.
PI 524182	donor id: Cili 1764.	origin: United States.	Seed.
PI 524183	donor id: Cili 1765.	origin: United States.	Seed.
PI 524184	donor id: Cili 1766.	origin: United States.	Seed.

PI 524095 to 524420-continued

PI 524185 donor id: Cili 1767. origin: United States. Seed.

PI 524186 donor id: Cili 1768. origin: United States. Seed.

PI 524187 donor id: Cili 1769. origin: United States. Seed.

PI 524188 donor id: Cili 1770. origin: United States. Seed.

PI 524189 donor id: Cili 1771. origin: United States. Seed.

PI 524190 donor id: Cili 1772. origin: United States. Seed.

PI 524191 donor id: Cili 1773. origin: United States. Seed.

PI 524192 donor id: Cili 1774. origin: United States. pedigree:  
A/4 1/2. Seed.

PI 524193 donor id: Cili 1775. origin: United States. pedigree:  
F/8/2. Seed.

PI 524194 donor id: Cili 1776. origin: United States. pedigree:  
B/2/2. Seed.

PI 524195 donor id: Cili 1777. origin: United States. Seed.

PI 524196 donor id: Cili 1778. origin: United States. Seed.

PI 524197 donor id: Cili 1779. origin: United States. Seed.

PI 524198 donor id: Cili 1780. origin: United States. Seed.

PI 524199 donor id: Cili 1781. origin: United States. Seed.

PI 524200 donor id: Cili 1782. origin: United States. cultivar:  
STORMONT COSS. Seed.

PI 524201 donor id: Cili 1783. origin: United States. Seed.

PI 524202 donor id: Cili 1784. origin: United States. cultivar:  
WIERA. pedigree: AC 350. Seed.

PI 524203 donor id: Cili 1785. origin: United States. cultivar:  
WADA. Seed.

PI 524204 donor id: Cili 1786. origin: United States. cultivar:  
MOTLEY. Seed.

PI 524205 donor id: Cili 1787. origin: UNKNOWN. Seed.

PI 524206 donor id: Cili 1788. origin: United States. cultivar:  
PERCELLO. Seed.

PI 524095 to 524420-continued

PI 524207 donor id: Cili 1789. origin: United States. Seed.

PI 524208 donor id: Cili 1790. origin: United States. Seed.

PI 524209 donor id: Cili 1791. origin: United States. cultivar:  
USSR NO 2. Seed.

PI 524210 donor id: Cili 1792. origin: United States. Seed.

PI 524211 donor id: Cili 1793. origin: United States. Seed.

PI 524212 donor id: Cili 1794. origin: United States. Seed.

PI 524213 donor id: Cili 1795. origin: United States. cultivar:  
TEXTILSCHIK. Seed.

PI 524214 donor id: Cili 1797. origin: Canada. cultivar: LIRAL  
PRINCE. Seed.

PI 524215 donor id: Cili 1798. origin: United States. cultivar:  
TALMUNE. Seed.

PI 524216 donor id: Cili 1799. origin: United States. cultivar:  
CONCURRENT. Seed.

PI 524217 donor id: Cili 1800. origin: United States. cultivar:  
WIERSEMA. Seed.

PI 524218 donor id: Cili 1801. origin: United States. cultivar:  
ARGENTINE 407. Seed.

PI 524219 donor id: Cili 1802. origin: United States. cultivar:  
CIRRUS. Seed.

PI 524220 donor id: Cili 1803. origin: United States. cultivar:  
HALLANDIA. Seed.

PI 524221 donor id: Cili 1804. origin: United States. cultivar:  
REMBRANDT. Seed.

PI 524222 donor id: Cili 1805. origin: United States. cultivar:  
STAKHANOUSTZ. Seed.

PI 524223 donor id: Cili 1818. origin: United States. cultivar:  
CASCADE. Seed.

PI 524224 donor id: Cili 1820. origin: United States. pedigree:  
BR 3991. Seed.

PI 524225 donor id: Cili 1821. origin: United States. pedigree:  
795-4. Seed.

PI 524095 to 524420-continued

PI 524226 donor id: Cili 1822. origin: United States. pedigree: REDWOOD HI-OIL BULK. Seed.

PI 524227 donor id: Cili 1824. origin: United States. pedigree: CI 1155 SEL 82. Seed.

PI 524228 donor id: Cili 1825. origin: Canada. pedigree: REPETIBLE 117 X REDSON. Seed.

PI 524229 donor id: Cili 1826. origin: Canada. pedigree: (OTT 770BXARG8C)X(ARROWXCI975). Seed.

PI 524230 donor id: Cili 1846. origin: India. Seed.

PI 524231 donor id: Cili 1851. origin: India. Seed.

PI 524232 donor id: Cili 1852. origin: India. Seed.

PI 524233 donor id: Cili 1866. origin: Hungary. cultivar: HINDI. Seed.

PI 524234 donor id: Cili 1912. origin: United States. cultivar: NEW RIVER. Seed.

PI 524235 donor id: Cili 1981. origin: Pakistan. pedigree: TYPE 29. Seed.

PI 524236 donor id: Cili 2078. origin: India. pedigree: N P 4. Seed.

PI 524237 donor id: Cili 2084. origin: India. pedigree: N P 10. Seed.

PI 524238 donor id: Cili 2089. origin: India. pedigree: N P 15. Seed.

PI 524239 donor id: Cili 2158. origin: India. pedigree: N P 85. Seed.

PI 524240 donor id: Cili 2187. origin: India. pedigree: N P 114. Seed.

PI 524241 donor id: Cili 2188. origin: India. pedigree: N P 115. Seed.

PI 524242 donor id: Cili 2190. origin: India. pedigree: N P 117. Seed.

PI 524243 donor id: Cili 2191. origin: India. pedigree: N P 118. Seed.

PI 524095 to 524420-continued

PI 524244 donor id: Cili 2192. origin: India. pedigree: N P 119.  
Seed.

PI 524245 donor id: Cili 2201. origin: India. pedigree: C F  
WHITE. Seed.

PI 524246 donor id: Cili 2203. origin: India. pedigree: M 10.  
Seed.

PI 524247 donor id: Cili 2209. origin: India. pedigree: T 1193-2.  
Seed.

PI 524248 donor id: Cili 2211. origin: India. pedigree: N P (RR)  
5. Seed.

PI 524249 donor id: Cili 2212. origin: India. pedigree: N P (RR)  
37. Seed.

PI 524250 donor id: Cili 2215. origin: India. pedigree: N P (RR)  
197. Seed.

PI 524251 donor id: Cili 2220. origin: India. pedigree: N P (RR)  
272. Seed.

PI 524252 donor id: Cili 2425. origin: United States. pedigree:  
TEXAS S 85-51 LONGE X NORSE. Seed.

PI 524253 donor id: Cili 2579. origin: Australia. Seed.

PI 524254 donor id: Cili 2776. origin: United States. cultivar:  
CULBERT. Seed.

PI 524255 donor id: Cili 2772. origin: Belgium. cultivar:  
CRISTA-FIBER. Seed.

PI 524256 donor id: Cili 2773. origin: Italy. cultivar: CAPACE.  
Seed.

PI 524257 donor id: Cili 2774. origin: Italy. cultivar: MARSIC.  
Seed.

PI 524258 donor id: Cili 2775. origin: Italy. cultivar: TRENTO.  
Seed.

PI 524259 donor id: Cili 2777. origin: United States. pedigree:  
NORSTAR X BR LINE 323. Seed.

PI 524260 donor id: Cili 2778. origin: United States. pedigree:  
NORED X BR LINE 411. Seed.

PI 524261 donor id: Cili 2779. origin: United States. pedigree:  
NORED X BR LINE 456. Seed.

PI 524095 to 524420-continued

PI 524262	donor id: Cili 2780. NORED X BR LINE 375.	origin: United States.	pedigree: Seed.
PI 524263	donor id: Cili 2781. WINDOM X BR LINE 269.	origin: United States.	pedigree: Seed.
PI 524264	donor id: Cili 2782. SD 1374.	origin: United States.	pedigree: Seed.
PI 524265	donor id: Cili 2784. NORED X BISON N1P3.	origin: United States.	pedigree: Seed.
PI 524266	donor id: Cili 2785. 1229.	origin: New Zealand.	pedigree: SP Seed.
PI 524267	donor id: Cili 2786. 2271.	origin: New Zealand.	pedigree: SP Seed.
PI 524268	donor id: Cili 2787. TAM F-201.	origin: United States.	cultivar: Seed.
PI 524269	donor id: Cili 2788. M-14.	origin: United States.	pedigree: Seed.
PI 524270	donor id: Cili 2789. M204.	origin: United States.	pedigree: Seed.
PI 524271	donor id: Cili 2790. M206.	origin: United States.	pedigree: Seed.
PI 524272	donor id: Cili 2791. Seed.	origin: Canada.	pedigree: C206.
PI 524273	donor id: Cili 2792. Seed.	origin: Canada.	pedigree: C214.
PI 524274	donor id: Cili 2793. MULT G-KOTO MM3NN1P.	origin: United States.	pedigree: Seed.
PI 524275	donor id: Cili 2794. MULT G-ARNY MM3NN1L.	origin: United States.	pedigree: Seed.
PI 524276	donor id: Cili 2796.	origin: Germany.	Seed.
PI 524277	donor id: Cili 2797. MULT G-FLOR 1L6M3.	origin: United States.	pedigree: Seed.
PI 524278	donor id: Cili 2798. MULT G-FLOR 4L6M3N1.	origin: United States.	pedigree: Seed.
PI 524279	donor id: Cili 2799.	origin: Germany.	Seed.



PI 524095 to 524420-continued

- PI 524280 donor id: Cili 2800. origin: Germany. Seed.
- PI 524281 donor id: Cili 2801. origin: United States. pedigree: FOSTER SELECT (N-213). Seed.
- PI 524282 donor id: Cili 2802. origin: Canada. pedigree: C-328454 X CI 2444. Seed.
- PI 524283 donor id: Cili 2803. origin: United States. pedigree: N-306 LINDA X CI 2481. Seed.
- PI 524284 donor id: Cili 2804. origin: Germany. Seed.
- PI 524285 donor id: Cili 2806. origin: United States. pedigree: N-316 KOTO X CI 2481. Seed.
- PI 524286 donor id: Cili 2807. origin: United States. pedigree: N-318 KOTO X CI 2481. Seed.
- PI 524287 donor id: Cili 2808. origin: Germany. Seed.
- PI 524288 donor id: Cili 2810. origin: United States. pedigree: N323 CI 1220Y X CI 1220B. Seed.
- PI 524289 donor id: Cili 2811. origin: United States. pedigree: N-324 CI 1220Y X B5128. Seed.
- PI 524290 donor id: Cili 2812. origin: Germany, Federal Rep of. cultivar: BIONDA. Seed.
- PI 524291 donor id: Cili 2813. origin: Germany. Seed.
- PI 524292 donor id: Cili 2814. origin: Canada. cultivar: DUFFERIN. Seed.
- PI 524293 donor id: Cili 2815. origin: United States. pedigree: MN 3242. Seed.
- PI 524294 donor id: Cili 2816. origin: Germany. Seed.
- PI 524295 donor id: Cili 2817. origin: Germany. Seed.
- PI 524296 donor id: Cili 2818. origin: United States. pedigree: N-407. Seed.
- PI 524297 donor id: Cili 2819. origin: United States. pedigree: N-409. Seed.
- PI 524298 donor id: Cili 2820. origin: United States. pedigree: N-416. Seed.

PI 524095 to 524420-continued

- PI 524299 donor id: Cili 2821. origin: United States. pedigree: N-422. Seed.
- PI 524300 donor id: Cili 2822. origin: United States. cultivar: WISHEK. Seed.
- PI 524301 donor id: Cili 2823. origin: United States. pedigree: N-424. Seed.
- PI 524302 donor id: Cili 2824. origin: Germany. Seed.
- PI 524303 donor id: Cili 2825. origin: Soviet Union. pedigree: USSR-2. Seed.
- PI 524304 donor id: Cili 2826. origin: Germany. Seed.
- PI 524305 donor id: Cili 2827. origin: Soviet Union. pedigree: USSR-4. Seed.
- PI 524306 donor id: Cili 2828. origin: Soviet Union. pedigree: USSR-5. Seed.
- PI 524307 donor id: Cili 2829. origin: Argentina. pedigree: PERG MOCAR INTA EEP570. Seed.
- PI 524308 donor id: Cili 2830. origin: Argentina. pedigree: OLIV TIMBA SIG EEP2211. Seed.
- PI 524309 donor id: Cili 2831. origin: Argentina. pedigree: OLIV TIMBA SIG EEP2211. Seed.
- PI 524310 donor id: Cili 2832. origin: Argentina. pedigree: OLIV TIMBA SIG EEP221. Seed.
- PI 524311 donor id: Cili 2833. origin: Argentina. pedigree: AH 811 F6 15D EEP2265. Seed.
- PI 524312 donor id: Cili 2834. origin: Argentina. pedigree: 15H 808-6-1-99-1-3. Seed.
- PI 524313 donor id: Cili 2835. origin: Argentina. pedigree: AH 827-F5-30 EEP2296. Seed.
- PI 524314 donor id: Cili 2836. origin: Argentina. pedigree: H709-F3-1-2-2-1EEP2310. Seed.
- PI 524315 donor id: Cili 2837. origin: Argentina. pedigree: FER PINTO PARANA INTA. Seed.
- PI 524316 donor id: Cili 2839. origin: United States. pedigree: LINOTT RESELECTION. Seed.

PI 524095 to 524420-continued

PI 524317 donor id: Cili 2840. origin: United States. pedigree: N-504 73-5023 LNT/NRD. Seed.

PI 524318 donor id: Cili 2841. origin: United States. pedigree: N-506 73-5044 LNT/NRD. Seed.

PI 524319 donor id: Cili 2842. origin: United States. pedigree: N-509 73-5087 LNT/NRD. Seed.

PI 524320 donor id: Cili 2843. origin: United States. pedigree: N-512 LINOTT/CI 2538. Seed.

PI 524321 donor id: Cili 2844. origin: United States. cultivar: N-515 LINDA/CI 2481. Seed.

PI 524322 donor id: Cili 2845. origin: United States. pedigree: N-516 LINDA/CI 2481. Seed.

PI 524323 donor id: Cili 2846. origin: United States. pedigree: N-517 B5128/CI 1220B. Seed.

PI 524324 donor id: Cili 2847. origin: United States. pedigree: N-520 CI 1220Y/FOSTER. Seed.

PI 524325 donor id: Cili 2848. origin: Canada. pedigree: FP 646 RWD 65 X FP 441. Seed.

PI 524326 donor id: Cili 2849. origin: United States. pedigree: N 608 CI 1200B/FOSTER. Seed.

PI 524327 donor id: Cili 2850. origin: United States. pedigree: N 611 CI 1220B/CI 2481. Seed.

PI 524328 donor id: Cili 2851. origin: United States. pedigree: N 617 LINDA/FOSTER. Seed.

PI 524329 donor id: Cili 2852. origin: United States. pedigree: N 618 LINDA/FOSTER. Seed.

PI 524330 donor id: Cili 2854. origin: United States. pedigree: N 623. Seed.

PI 524331 donor id: Cili 2855. origin: United States. pedigree: N 625 LINDA/FOSTER. Seed.

PI 524332 donor id: Cili 2856. origin: United States. pedigree: SD 751807 SUMMIT/CI 2481. Seed.

PI 524333 donor id: Cili 2857. origin: United States. pedigree: SD 751815 NORED/RAJA. Seed.

PI 524095 to 524420-continued

PI 524334 donor id: Cili 2858. origin: United States. pedigree:  
SD 751828 BOLLEY/CI 2481. Seed.

PI 524335 donor id: Cili 2859. origin: Soviet Union. cultivar:  
KUJBYSHEV INTRO. Seed.

PI 524336 donor id: Cili 2860. origin: Soviet Union. cultivar:  
KAZAKHSTAN INTRO. Seed.

PI 524337 donor id: Cili 2861. origin: Soviet Union. cultivar:  
TAMBOV INTRO. Seed.

PI 524338 donor id: Cili 2862. origin: Soviet Union. cultivar:  
UKRAINE INTRO. Seed.

PI 524339 donor id: Cili 2863. origin: Soviet Union. cultivar:  
VORONEZ INTRO. Seed.

PI 524340 donor id: Cili 2864. origin: Soviet Union. cultivar:  
RUSSIAN INTRO. Seed.

PI 524341 donor id: Cili 2865. origin: Soviet Union. cultivar:  
RUSSIAN INTRO. Seed.

PI 524342 donor id: Cili 2866. origin: Soviet Union. cultivar:  
UKRAINE INTRO. Seed.

PI 524343 donor id: Cili 2867. origin: Soviet Union. cultivar:  
UKRAINE INTRO. Seed.

PI 524344 donor id: Cili 2868. origin: Soviet Union. cultivar:  
KRASNODAR INTRO. Seed.

PI 524345 donor id: Cili 2869. origin: Soviet Union. cultivar:  
SARATOV INTRO. Seed.

PI 524346 donor id: Cili 2870. origin: Soviet Union. cultivar:  
ROSTOV INTRO. Seed.

PI 524347 donor id: Cili 2871. origin: Soviet Union. cultivar:  
KAZAKHSTAN INTRO. Seed.

PI 524348 donor id: Cili 2872. origin: Soviet Union. cultivar:  
STAVROPOLSKIJ 79. Seed.

PI 524349 donor id: Cili 2873. origin: Soviet Union. cultivar:  
SIBIRIAK. Seed.

PI 524350 donor id: Cili 2874. origin: Germany. Seed.

PI 524351 donor id: Cili 2876. origin: Soviet Union. cultivar:  
WIR-1647. Seed.

PI 524095 to 524420-continued

PI 524352 donor id: Cili 2877. origin: Soviet Union. cultivar: VNIIMK-5237. Seed.

PI 524353 donor id: Cili 2878. origin: Soviet Union. cultivar: KRUPNOSEMIANNYJ 3. Seed.

PI 524354 donor id: Cili 2879. origin: Soviet Union. cultivar: STEPNOJ 265. Seed.

PI 524355 donor id: Cili 2880. origin: Soviet Union. cultivar: KIROVOGRADSKIJ 71. Seed.

PI 524356 donor id: Cili 2881. origin: Soviet Union. cultivar: KUBANSKIJ 1. Seed.

PI 524357 donor id: Cili 2882. origin: Soviet Union. cultivar: KIROVOGRADSKIJ 2. Seed.

PI 524358 donor id: Cili 2884. origin: Soviet Union. cultivar: USPEH. Seed.

PI 524359 donor id: Cili 2885. origin: Soviet Union. cultivar: DONSKOJ 95. Seed.

PI 524360 donor id: Cili 2886. origin: United States. pedigree: N705 LINOTT/NORED. Seed.

PI 524361 donor id: Cili 2887. origin: United States. pedigree: N713 LINOTT/CI 2538. Seed.

PI 524362 donor id: Cili 2888. origin: United States. pedigree: N714 LINOTT/CI 2538. Seed.

PI 524363 donor id: Cili 2889. origin: United States. pedigree: N715 LINOTT/CI 2538. Seed.

PI 524364 donor id: Cili 2891. origin: United States. pedigree: M716 WR 305 1911P4/H02. Seed.

PI 524365 donor id: Cili 2893. origin: United States. pedigree: M724 WR408 2008M6/H02. Seed.

PI 524366 donor id: Cili 2894. origin: United States. pedigree: M3P3-92 L/BM3//L/BP3. Seed.

PI 524367 donor id: Cili 2896. origin: United States. cultivar: FLOR. Seed.

PI 524368 donor id: Cili 2897. origin: United States. pedigree: M3P3-1067L/BM3//L/BP3. Seed.

PI 524095 to 524420-continued

PI 524369 donor id: Cili 2899. origin: Egypt. cultivar: GIZA 4.  
Seed.

PI 524370 donor id: Cili 2900. origin: France. cultivar: OCEAN.  
Seed.

PI 524371 donor id: Cili 2901. origin: France. cultivar: LISA.  
Seed.

PI 524372 donor id: Cili 2902. origin: France. cultivar: CROCUS.  
Seed.

PI 524373 donor id: Cili 2903. origin: France. cultivar: ANTARES.  
Seed.

PI 524374 donor id: Cili 2904. origin: France. cultivar:  
EMERAUDE. Seed.

PI 524375 donor id: Cili 2905. origin: France. cultivar: NIVALE.  
Seed.

PI 524376 donor id: Cili 2908. origin: United States. pedigree:  
M3P3-1025L/BMS//L/BP3. Seed.

PI 524377 donor id: Cili 2909. origin: United States. pedigree:  
M3P3-2747L/BM3//L/BP3. Seed.

PI 524378 donor id: Cili 2910. origin: United States. pedigree:  
CULBERT/BISON M3P3. Seed.

PI 524379 donor id: Cili 2911. origin: United States. pedigree:  
CULBERT/BISON M3P3. Seed.

PI 524380 donor id: Cili 2912. origin: United States. pedigree:  
BR/NORED/LINOTT. Seed.

PI 524381 donor id: Cili 2913. origin: United States. pedigree:  
BR/NORED/LINOTT. Seed.

PI 524382 donor id: Cili 2914. origin: United States. pedigree:  
BR/NORED/LINOTT. Seed.

PI 524383 donor id: Cili 2915. origin: United States. pedigree:  
HIDIL 11X3//LINOTT. Seed.

PI 524384 donor id: Cili 2916. origin: United States. pedigree:  
WINDOM/BSN70//LINOTT. Seed.

PI 524385 donor id: Cili 2917. origin: United States. pedigree:  
CULBERT/5017 HI0IL. Seed.

PI 524095 to 524420-continued

PI 524386 donor id: Cili 2918. origin: United States. pedigree:  
CULBERT/5088. Seed.

PI 524387 donor id: Cili 2919. origin: United States. pedigree:  
CULBERT/5088. Seed.

PI 524388 donor id: Cili 2920. origin: United States. pedigree:  
CULBERT/5088. Seed.

PI 524389 donor id: Cili 2921. origin: Canada. pedigree:  
FP539/RWD65 FP692. Seed.

PI 524390 donor id: Cili 2924. origin: United States. pedigree:  
LINOTT/REDWOOD. Seed.

PI 524391 donor id: Cili 2925. origin: United States. pedigree:  
LINOTT/CI 2783. Seed.

PI 524392 donor id: Cili 2926. origin: United States. pedigree:  
LINOTT/CI 2783. Seed.

PI 524393 donor id: Cili 2927. origin: United States. pedigree:  
LINOTT/CI 2783. Seed.

PI 524394 donor id: Cili 2928. origin: United States. pedigree:  
CULBERT/5088. Seed.

PI 524395 donor id: Cili 2929. origin: United States. pedigree:  
CULBERT/5088. Seed.

PI 524396 donor id: Cili 2930. origin: United States. pedigree:  
CULBERT/5088. Seed.

PI 524397 donor id: Cili 2931. origin: United States. pedigree:  
CULBERT/5088. Seed.

PI 524398 donor id: Cili 2932. origin: United States. pedigree:  
3125 BR/NSTR//LINOTT. Seed.

PI 524399 donor id: Cili 2933. origin: United States. pedigree:  
M3P3 9-2. Seed.

PI 524400 donor id: Cili 2935. origin: United States. pedigree:  
FP 698. Seed.

PI 524401 donor id: Cili 2936. origin: United States. pedigree:  
FP 707. Seed.

PI 524402 donor id: Cili 2937. origin: New Zealand. cultivar:  
HINU.

PI 524095 to 524420-continued

PI 524403	donor id: Cili 2938. CULBERT 5017.	origin: United States.	pedigree:
PI 524404	donor id: Cili 2939. MECORETA/NOR-1.	origin: United States.	pedigree:
PI 524405	donor id: Cili 2940. MECORETA/NOR-2.	origin: United States.	pedigree:
PI 524406	donor id: Cili 2941. CUL/5088 (2928).	origin: United States.	pedigree:
PI 524407	donor id: Cili 2942. CUL/5088 (2919).	origin: United States.	pedigree:
PI 524408	donor id: Cili 2943. CI 2790/N419.	origin: United States.	pedigree:
PI 524409	donor id: Cili 2944. LINOTT/UNKNOWN.	origin: United States.	pedigree:
PI 524410	donor id: Cili 2945. M220/M3083.	origin: United States.	pedigree:
PI 524411	donor id: Cili 2946. M3243/LIN/FOS.	origin: United States.	pedigree:
PI 524412	donor id: Cili 2947. CI2802/CI2799.	origin: United States.	pedigree:
PI 524413	donor id: Cili 2948. CI2802/CI2799.	origin: United States.	pedigree:
PI 524414	donor id: Cili 2949. M3P3 153-1.	origin: United States.	pedigree:
PI 524415	donor id: Cili 2950. H-40//DUFF/CUL.	origin: United States.	pedigree:
PI 524416	donor id: Cili 2951. H-8D//DUFF/CUL.	origin: United States.	pedigree:
PI 524417	donor id: Cili 3255. CULBERT M3P3.	origin: United States.	pedigree:
PI 524418	donor id: Cili 3256. LINOTT M3P3.	origin: United States.	pedigree:
PI 524419	donor id: Cili 3257. WISHEK M3P3.	origin: United States.	pedigree:



PI 524095 to 524420-continued

PI 524420 donor id: Cili 3258. origin: United States. cultivar:  
NORED M3P3.

PI 524421. Sorghum bicolor (L.) Moench POACEAE Sorghum

**Donated by:** Kambal, A.E., University of Khartoum, Shambat, Sudan.  
**remarks:** Received through IBPGR, Rome Italy. Received September  
1980.

donor id: K 26. origin: Sudan. collector: Kambal, A.E..  
collector id: K 26. other id: NSL 112682. locality:  
Yeri 27km NW of Mundri, Darfur Province. remarks: Sown  
April, harvested July. Sweet and juicy stems.  
Cultivated. Seed.

PI 524422 to 524424. Avena sativa L. POACEAE Common oat

**Donated by:** Rothman, P.G., Cereal Rust Laboratory, USDA-ARS,  
University of Minnesota, St. Paul, Minnesota, United States.  
**remarks:** Received through L.W. Briggie, Germplasm Service Lab.,  
USDA-ARS, Beltsville, Maryland. Received April 20, 1988.

PI 524422 donor id: MN 829509. origin: United States. cultivar:  
DELREDSA. pedigree: Sel. from cross of yellow hexaploid  
and a black diploid. other id: GP-26. source: lit ref:  
Crop Sci. 24:1217. 1984. group: CSR-OATS. disease  
resistance: Stem rust races NA 26, NA 27, NA 30.  
Breeding Material. Seed.

PI 524423 donor id: MN 839848. origin: United States. cultivar:  
OBEE. pedigree: Octoploid twin seedling from cross of  
antotetraploid line and hexaploid oat. other id: GP-27.  
source: lit ref: Crop Sci. 24:1217. 1984. group:  
CSR-OATS. remarks: Crosses readily with hexaploid oats.  
disease resistance: Stem rust races NA 26, NA 27, NA 30.  
Crown rust avirulent on A. strigosa. Breeding Material.  
Seed.

PI 524424 donor id: MN 79109. origin: United States. cultivar:  
AOJSS. pedigree: Alpha/Omega//Johnson Sel/Purdue  
5939B1-3-1. other id: GP-28. source: lit ref: Crop Sci.  
24:1217. 1984. group: CSR-OATS. disease resistance:  
Stem rust races NA 26, NA 27, NA 30. Composite crown  
rust races. Breeding Material. Seed.

PI 524425 to 524427. *Cucurbita moschata* (Duch.) Duch. ex Poir.  
CUCURBITACEAE

**Donated by:** Attere, F., IBPGR, Rome, Italy; and Ndumba, E.K., Department of Agriculture, Solwezi, Zambia; and Mubiana, W., Department of Agriculture, Mansa, Zambia. **remarks:** Received through IBPGR, Rome, Italy. Received August 24, 1988.

PI 524425 **donor id:** ZFA 3378a. **origin:** Zambia. **collected:** June 24, 1982. **locality:** Farmstore, Chikumina, 25km E of Chavuma, Northwestern Province. **latitude:** 13 deg. 30 min. S. **longitude:** 23 deg. E. **remarks:** Originally a mixed collection with ZFA 3378 (PI 494834). Annual. Primitive Cultivar. Seed.

PI 524426 **donor id:** ZFA 3569a. **origin:** Zambia. **collected:** July 05, 1982. **locality:** Farmstore, Chimfuntu, 132km from Mansa to Kawambwa, Luapula Province. **elevation:** 1400m. **remarks:** Originally a mixed collection with ZFA 3569 (PI 494840). Annual. Primitive Cultivar. Seed.

PI 524427 **donor id:** ZFA 3633a. **origin:** Zambia. **collected:** July 07, 1982. **locality:** Farmstore, Mtamba village, Northern Province. **latitude:** 09 deg. 30 min. S. **longitude:** 30 deg. 05 min. E. **elevation:** 1610m. **remarks:** Originally a mixed collection with ZFA 3633 (PI 494842). Annual. Primitive Cultivar. Seed.

PI 524428. *Cucurbita moschata* (Duch.) Duch. ex Poir. CUCURBITACEAE

**Donated by:** Toll, J.; Gwarazimba, V., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received August 24, 1988.

**donor id:** TGR 1243a. **origin:** Zimbabwe. **collected:** June 02, 1982. **locality:** Farmstore, 4km E of Nyatate BC, Manicaland North Province. **latitude:** 18 deg. 01 min. S. **longitude:** 32 deg. 39 min. E. **elevation:** 1190m. **remarks:** Originally a mixed collection with TGR 1243 (PI 482478). Cultivated. Seed.

PI 524429 to 524431. *Aegilops cylindrica* Host POACEAE Jointed goatgrass

**Donated by:** Briggles, L.W., Germplasm Services Lab., USDA-ARS-PSI, Bldg. 001, Rm 115, Beltsville, Maryland, United States. Received August 30, 1988.

PI 524429 **origin:** United States. **collected:** July 24, 1988. **locality:** Observatory Hill, east end of USDA Wheat Disease Nursery, Washington State University, Pullman. Wild. Seed.

PI 524429 to 524431-continued

PI 524430 **origin:** United States. **collected:** July 24, 1988.  
**locality:** Observatory Hill, west end of USDA Wheat  
Disease Nursery, Washington State University, Pullman.  
Wild. Seed.

PI 524431 **origin:** United States. **collected:** July 24, 1988.  
**locality:** Wheat field border, along highway 195, 8.05km N  
of Pullman. Wild. Seed.

PI 524432. *Trifolium* sp. FABACEAE

**Donated by:** Gentry, H.S., New Crops Research Branch, Crops Research  
Division, USDA-ARS, Beltsville, Maryland, United States. Received  
August 08, 1958.

**donor id:** 17036a. **origin:** Greece. **collector:** H.S.  
Gentry. **collector id:** 17036. **locality:** Well drained  
slope, San Dramitris, Olympus. **elevation:** 823m.  
**remarks:** Mixed with *Trifolium repens* (PI 249871).  
Annual. Wild. Seed.

PI 524433 to 524446. *Eragrostis tef* (Zucc.) Trotter POACEAE Teff

**Donated by:** Debelo, A., Department of Agronomy, Oklahoma State  
University, Stillwater, Oklahoma, United States. **remarks:** Received  
through the Western Regional P.I. Station, USDA-ARS, Washington  
State University, Pullman, Washington. Received March 16, 1988.

PI 524433 **origin:** Ethiopia. **cultivar:** ADA. **local name:** Abshe  
lamenie (in Gondar area); Manya k'olla dimma (part of  
Shoa). **remarks:** Maturity 95-115 days. Plants 50-100cm  
tall, stout, erect. Panicles 20-40cm long, loose, short,  
obpyramidal, semicompact. Grains opaque, yellowish white.  
Cultivar. Seed.

PI 524434 **origin:** Ethiopia. **cultivar:** ADDISIE. **local name:**  
Gorradie. Nach agachem. Murrio or murri. Wazwazie.  
**remarks:** Maturity 95-110 days. Plants 65-90cm tall,  
stout, erect except for the slight bending of the panicle  
near the tip, not commonly grown. Panicles 20-45cm long;  
very compact, cylindrical. Grains opaque, yellowish  
white. Cultivar. Seed.

PI 524435 **origin:** Ethiopia. **cultivar:** ALBA. **local name:** Nach  
t'ef. Basra t'ef. Zada t'ef. Manya Kolla ady. **elevation:**  
1700-2500m. **remarks:** Maturity 95-120 days. Plants widely  
cultivated for culinary purposes, 60-135cm tall, erect  
with nodding panicles. Panicles 25-65cm long, fairly  
loose. Grains opaque, yellowish white. Cultivar. Seed.

PI 524433 to 524446-continued

- PI 524436 **origin:** Ethiopia. **cultivar:** BALAMI. **local name:** Balami. **remarks:** Maturity 90-100 days. Plants 60-105cm tall. Panicles 20-50cm long, very loose, open. Grains opaque, yellowish. Cultivar. Seed.
- PI 524437 **origin:** Ethiopia. **cultivar:** BETEN. **local name:** Beten. T'eukr sergenya. **remarks:** Maturity 85-95 days. Plants 40-85cm tall. Panicles 20-40cm long, very loose. Grains opaque, yellowish white. Cultivar. Seed.
- PI 524438 **origin:** Ethiopia. **cultivar:** DABBI. **remarks:** Plants 55-58cm tall. Panicles 20-45cm long, very loose open, often symmetrically ramified. Grains medium brown, wine colored or vinaceous. Cultivar. Seed.
- PI 524439 **origin:** Ethiopia. **cultivar:** ENATITE. **local name:** Enatite. Ady hado. **remarks:** Maturity 90-100 days. Plants 45-85cm tall. Commonly grown in the Debre Zeit area. Panicles 20-40cm long, very loose, open, nodding. Grains opaque, yellowish white. Ady hado means "white mother" indicated it is the whitest tef. Cultivar. Seed.
- PI 524440 **origin:** Ethiopia. **cultivar:** GEA-LAMIE. **local name:** Gea-Lamie. Messo gea-Lamie. Messo. Bonninye. Kasase. **remarks:** Maturity 60-70 days (high altitudes), 45-60 days (low altitudes). Plants 20-50cm tall. Widely grown usually on a small scale over wide range of elevation. Panicles 10-25cm long, very loose, rarely nodding, open. Grains brownish orange to medium brown. Cultivar. Seed.
- PI 524441 **origin:** Ethiopia. **cultivar:** GOMMADIE. **local name:** Nach t'ef. Abshe lamenie. Gommadie. Gofarie. **remarks:** Maturity 90-100 days. Plants 50-100cm tall. Widely grown mixed with cultivar Alba. Panicles 20-35cm long, fairly loose, short, obpyramidal, semi-compact. Grains opaque, yellowish white. Culinary uses. Cultivar. Seed.
- PI 524442 **origin:** Ethiopia. **cultivar:** KARADEBI. **local name:** Taffa hagayi. Karadebi. **remarks:** Maturity 85-90 days. Plants 40-80cm tall. Grown over wide range of elevations and often on large scale. Panicles 15-35cm long, very loose, open, nodding. Grains shatter easily, brownish orange to strong brown. Unpleasant order from stacks rained on. High nutritional and energy values. Used in making alcohol and for food and feed. Cultivar. Seed.
- PI 524443 **origin:** Ethiopia. **cultivar:** MANYI. **local name:** Manya kolla dimma. **remarks:** Maturity 90-110 days. Plants 40-100cm tall. Commonly grown, mostly in pure stands. Panicles 20-50cm long, fairly loose, long, rachis not fully exposed. Grains opaque, yellowish white. Cultivar. Seed.

PI 524433 to 524446-continued

PI 524444 **origin:** Ethiopia. **cultivar:** ROSEA. **local name:** T'ek'ur manya. Manya. **remarks:** Maturity 60-100 days. Plants 50-95cm tall. Panicles 20-40cm long, fairly loose. Grains opaque, yellowish white. Similiar to Beten. Cultivar. Seed.

PI 524445 **origin:** Ethiopia. **cultivar:** TULLU NASY. **local name:** Messo ady (white type). Nach bunninye. Nach feso. **remarks:** Maturity 70-80 days (high altitudes), 60-70 days (low altitudes). Plants 30-50cm tall. Commonly grown in small amounts at both low and high elevations. Panicles small 10-25cm long, very loose, completely open, symmetically or equilaterally ramified with the central rachis fully exposed. Grains alabaster, pale orange-white. Yield low. Cultivar. Seed.

PI 524446 **origin:** Ethiopia. **cultivar:** VARIEGATA. **local name:** T'ek'ur sergenya. **remarks:** Maturity 90-100 days, longer in wet areas. Plants 55-90cm tall. Not commonly grown. Panicles 20-45cm long, fairly loose, rachis not fully exposed, inequilaterally ramified, unilateral (orientated to one side). Grains light brown. Used for making injera, porridge, alcohol, alcoholic beverages and feed. Cultivar. Seed.

PI 524447 to 524513. Sorghum bicolor (L.) Moench POACEAE Sorghum

**Donated by:** Kambal, A.E., Faculty of Agriculture, University of Khartoum, Shambat, Sudan. **remarks:** Received through IBPGR, Rome, Italy. Received September 1980.

PI 524447 **donor id:** K 1. **origin:** Sudan. **local name:** Deri. **collected:** 1977. **collector:** Kambal, A.E. **collector id:** K 1. **other id:** NSL 112665. **locality:** Tarnaba village, 35km Juba -Nimuli road, Darfur Province. **remarks:** Long head, mixed colors. Late type. Same type called Jeri by Baria tribe, zeri or zori by Kakwa and Fajelu and Deri by Moro, Madi and Luluba. Cultivated. Seed.

PI 524448 **donor id:** K 2. **origin:** Sudan. **local name:** Makyikn. **collected:** 1977. **collector:** Kambal, A.E. **collector id:** K 2. **other id:** NSL 112666. **locality:** Tarnaba village, 35km Juba - Nimuli road, Darfur Province. Cultivated. Seed.

PI 524449 **donor id:** K 7. **origin:** Sudan. **local name:** Lope. **collected:** 1977. **collector:** Kambal, A.E. **collector id:** K 7. **other id:** NSL 112667. **locality:** Pangeri village along Juba - Nimuli road, Darfur Province. **remarks:** Sown August, harvested November. Cultivated. Seed.

PI 524447 to 524513-continued

- PI 524450 donor id: K 9. origin: Sudan. local name: Logbi Tiliri. collected: 1977. collector: Kambal, A.E. collector id: K 9. other id: NSL 112669. locality: Pangeri village along Juba - Nimuli road, Darfur Province. remarks: Sown early. Quick maturing. Cultivated. Seed.
- PI 524451 donor id: K 10. origin: Sudan. local name: Godo. collected: 1918. collector: Kambal, A.E. collector id: K 10. other id: NSL 112670. locality: Pangeri village along Juba - Nimuli road, Darfur Province. remarks: Quick maturing. Cultivated. Seed.
- PI 524452 donor id: K 11. origin: Sudan. local name: Zeri. collected: 1977. collector: Kambal, A.E. collector id: K 11. other id: NSL 112671. locality: Loka West 17km from Yei, Darfur Province. remarks: Variable, mixed colors. Cultivated. Seed.
- PI 524453 donor id: K 12. origin: Sudan. local name: Zeri. collected: 1977. collector: Kambal, A.E. collector id: K 12. other id: NSL 112672. locality: Gimunu 4km from Yei, Darfur Province. remarks: Sown May, harvested December grown by Kakwa. Cultivated. Seed.
- PI 524454 donor id: K 14. origin: Sudan. local name: Dala. collected: 1977. collector: Kambal, A.E. collector id: K 14. other id: NSL 112673. locality: Lainnya 23km from Yei, Darfur Province. remarks: Sown July, harvested December. Yellow seeds. Cultivated. Seed.
- PI 524455 donor id: K 15. origin: Sudan. local name: Zeri. collected: 1977. collector: Kambal, A.E. collector id: K 15. other id: NSL 112674. locality: Lainnya 23km from Yei, Darfur Province. remarks: Sown April/May, harvested December. Cultivated. Seed.
- PI 524456 donor id: K 16. origin: Sudan. local name: Lotori. collected: 1977. collector: Kambal, A.E. collector id: K 16. other id: NSL 112675. locality: Lainnya 23km from Yei, Darfur Province. remarks: Sown June harvested November "Lotori" means red in Fajelu. Cultivated. Seed.
- PI 524457 donor id: K 17. origin: Sudan. local name: Deri. collected: 1977. collector: Kambal, A.E. collector id: K 17. other id: NSL 112676. locality: Mundri 42km from Maridi, Darfur Province. remarks: Sown April, harvested December. Mixed colors. Cultivated. Seed.

PI 524447 to 524513-continued

- PI 524458 donor id: K 18. origin: Sudan. local name: Moro.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 18. other id: NSL 112677. locality: Mundri 42km from  
Maridi, Darfur Province. remarks: Sown April, harvested  
October. Pearly color. Cultivated. Seed.
- PI 524459 donor id: K 19. origin: Sudan. local name: Challi.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 19. other id: NSL 112678. locality: Mundri 42km from  
Maridi, Darfur Province. remarks: Sown April, harvested  
October. Cultivated. Seed.
- PI 524460 donor id: K 20. origin: Sudan. local name: Gassab.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 20. other id: NSL 112679. locality: Mundri 42km from  
Maridi, Darfur Province. remarks: Sown April, harvested  
October. Stems chewed after harvest of grains.  
Cultivated. Seed.
- PI 524461 donor id: K 21. origin: Sudan. local name: Deri.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 21. other id: NSL 112680. locality: Yeri 27km NW of  
Mundri, Darfur Province. remarks: Sown May, harvested  
December. Cultivated. Seed.
- PI 524462 donor id: K 23. origin: Sudan. local name: Moro.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 23. other id: NSL 112681. locality: Yeri 27km NW of  
Mundri, Darfur Province. remarks: Sown April, harvested  
October-November. Gives good flour. Cultivated. Seed.
- PI 524463 donor id: K 27. origin: Sudan. local name: Kej.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 27. other id: NSL 112683. locality: Quebet 20km along  
Rombeb-Tonj road, Darfur Province. remarks: Sown May,  
harvested December/January. Cultivated. Seed.
- PI 524464 donor id: K 28. origin: Sudan. local name: Adol.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 28. other id: NSL 112684. locality: Quebet 20km along  
Rombeb-Tonj road, Darfur Province. remarks: Sown May,  
harvested January. Cultivated. Seed.
- PI 524465 donor id: K 29. origin: Sudan. local name: Deel.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 29. other id: NSL 112685. locality: Quebet 20km along  
Rombeb-Tonj road, Darfur Province. remarks: Sown May,  
harvested January. Cultivated. Seed.

PI 524447 to 524513-continued

- PI 524466 donor id: K 31. origin: Sudan. local name: Agok.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 31. other id: NSL 112686. locality: Quebet 20km along  
Rombek-Tonj road, Darfur Province. remarks: Sown May,  
harvested January. Name means monkey in Dinka.  
Cultivated. Seed.
- PI 524467 donor id: K 34. origin: Sudan. local name: Chulluk.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 34. other id: NSL 112687. locality: Quebet 20m along  
Rombek-Tonj road, Darfur Province. remarks: Sown May,  
harvested November. Sweet, juicy stems. Cultivated.  
Seed.
- PI 524468 donor id: K 38. origin: Sudan. local name: Manwan.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 38. other id: NSL 112688. locality: Giguruak (Thro.,  
Insp. Agric. Wau), Darfur Province. remarks: Sown May,  
harvested December/January. Grown by Dinka. Cultivated.  
Seed.
- PI 524469 donor id: K 39. origin: Sudan. local name: Mabior.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 39. other id: NSL 112689. locality: Kwajak, Gog-Dist.  
(Thro. insp. Agric. Wau), Darfur Province. remarks: Sown  
May, harvested December/January. Grown by Dinka.  
Cultivated. Seed.
- PI 524470 donor id: K 40. origin: Sudan. local name: Bende.  
collected: 1977. collector: Kambal, A.E.. collector id:  
K 40. other id: NSL 112690. locality: Kwajak, Gog-Dist.  
(Thro. insp. Agric. Wau), Darfur Province. remarks: Sown  
August, harvested December/January. Grown by June.  
Cultivated. Seed.
- PI 524471 donor id: K 41. origin: Sudan. local name: Chukoo.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 41. other id: NSL 112691. locality: Wau, Darfur  
Province. remarks: Sown May, harvested December/January.  
Grown by Balandas. Cultivated. Seed.
- PI 524472 donor id: K 43. origin: Sudan. local name: Kawanga.  
collected: 1977. collector: Kambal, A.E.. collector id:  
K 43. other id: NSL 112692. locality: Wau, Darfur  
Province. remarks: Sown May, harvested December/January.  
Important variety in Raja Dist. Cultivated. Seed.
- PI 524473 donor id: K 44. origin: Sudan. local name: Habior  
(white). collected: 1977. collector: Kambal, A.E.  
collector id: K 44. other id: NSL 112693. locality:  
Wau, Darfur Province. remarks: Sown May, harvested  
December/January. Cultivated. Seed.



PI 524447 to 524513-continued

- PI 524474 donor id: K 45. origin: Sudan. local name: Ngbanga. collected: 1977. collector: Kambal, A.E. collector id: K 45. other id: NSL 112694. locality: Wau, Darfur Province. remarks: Sown May, harvested December/January. Grown by Balandas. Cultivated. Seed.
- PI 524475 donor id: K 47. origin: Sudan. local name: Nvarkan. collected: 1977. collector: Kambal, A.E. collector id: K 47. other id: NSL 112695. locality: Wau, Darfur Province. remarks: Sown July, harvested December/January. Grown by balandas. Good quality. Cultivated. Seed.
- PI 524476 donor id: K 48. origin: Sudan. local name: Mabior (Yellow). collected: 1977. collector: Kambal, A.E. collector id: K 48. other id: NSL 112696. locality: Wau, Darfur Province. remarks: Sown May, harvested December/January. Popular type. Cultivated. Seed.
- PI 524477 donor id: K 49. origin: Sudan. local name: Asarama. collected: 1977. collector: Kambal, A.E. collector id: K 49. other id: NSL 112697. locality: Wau, Darfur Province. remarks: Sown May, harvested December/January. Grown by Balandas. Cultivated. Seed.
- PI 524478 donor id: K 51. origin: Sudan. local name: Bende. collected: 1977. collector: Kambal, A.E. collector id: K 51. other id: NSL 112698. locality: Bazia 29km from Wau, Darfur Province. remarks: Sown August, harvested December/January. Cultivated. Seed.
- PI 524479 donor id: K 52. origin: Sudan. local name: Mbaraka. collected: 1977. collector: Kambal, A.E. collector id: K 52. other id: NSL 112699. locality: Bazia 29km from Wau, Darfur Province. remarks: Sown May, harvested December. Good Quality, stores well. Cultivated. Seed.
- PI 524480 donor id: K 54. origin: Sudan. local name: Mudi. collected: 1977. collector: Kambal, A.E. collector id: K 54. other id: NSL 112700. locality: Bazia 29km from Wau, Darfur Province. remarks: Sown May, harvested December. Good Quality, stores well. Cultivated. Seed.
- PI 524481 donor id: K 56. origin: Sudan. local name: Bel (White). collected: 1977. collector: Kambal, A.E. collector id: K 56. other id: NSL 112701. locality: Nagero 39km from Tombura, Darfur Province. remarks: Sown April, harvested October. Used for malting by Balandas. Cultivated. Seed.

PI 524447 to 524513-continued

- PI 524482 donor id: K 57. origin: Sudan. local name: Bel (Red).  
collected: 1977. collector: Kambal, A.E. collector id:  
K 57. other id: NSL 112702. locality: Nagero 39km from  
Tombura, Darfur Province. remarks: Sown April, harested  
October. Used for malting by Balandas. Cultivated.  
Seed.
- PI 524483 donor id: K 61. origin: Sudan. local name: Silamolo.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 61. other id: NSL 112703. locality: Tomboura, Darfur  
Province. remarks: Sown April, harested  
October/November. Names means Lions tail in Balanda.  
Cultivated. Seed.
- PI 524484 donor id: K 62. origin: Sudan. local name: Dala.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 62. other id: NSL 112704. locality: Bar-Olo 17km  
Maridi-Mundri road, Darfur Province. remarks: Sown June,  
harvested December/January. Good quality used for making  
marisa asida and balila. Grown by Avokaya. Cultivated.  
Seed.
- PI 524485 donor id: K 65. origin: Sudan. local name: Challa.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 65. other id: NSL 112705. locality: Buagi 28km from  
Murdri, Darfur Province. remarks: Sown July, harvested  
December. Cultivated. Seed.
- PI 524486 donor id: K 66. origin: Sudan. local name: Moro.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 66. other id: NSL 112706. locality: Buagi 28km from  
Murdri, Darfur Province. remarks: Sown April, harvested  
October/November. Cultivated. Seed.
- PI 524487 donor id: K 67. origin: Sudan. local name: Deri.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 67. other id: NSL 112707. locality: Buagi 28km from  
Murdri, Darfur Province. remarks: Sown April/May,  
harvested January. Mixed colors. Cultivated. Seed.
- PI 524488 donor id: K 68. origin: Sudan. local name: Nyarango.  
collected: 1977. collector: Kambal, A.E.. collector id:  
K 68. other id: NSL 112708. locality: Buagi 28km from  
Murdri, Darfur Province. remarks: Sown July, harvested  
December/January. Seeds pearly color. Cultivated. Seed.
- PI 524489 donor id: K 69. origin: Sudan. local name: Bari.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 69. other id: NSL 112709. locality: Buagi 28km from  
Murdri, Darfur Province. remarks: Sown August/September,  
harvested December/January. Cultivated. Seed.

PI 524447 to 524513-continued

- PI 524490 donor id: K 71. origin: Sudan. local name: Nyilhing. collected: 1977. collector: Kambal, A.E. collector id: K 71. other id: NSL 112710. locality: Alliab, Yirol Dist. (Thro. H. Sabet), Darfur Province. remarks: Sown May, harvested November/December. Grown by Alliab Dinka. Cultivated. Seed.
- PI 524491 donor id: K 72. origin: Sudan. local name: Awet. collected: 1977. collector: Kambal, A.E. collector id: K 72. other id: NSL 112711. locality: Malakal (Thro. H. Sabet), Darfur Province. remarks: Grown by Shilluk. Cultivated. Seed.
- PI 524492 donor id: K 73. origin: Sudan. local name: Opien liec. collected: 1977. collector: Kambal, A.E. collector id: K 73. other id: NSL 112712. locality: Malakal (Thro. H. Sabet), Darfur Province. remarks: Grown by Shilluk. Cultivated. Seed.
- PI 524493 donor id: K 74. origin: Sudan. local name: Chalo. collected: 1977. collector: Kambal, A.E. collector id: K 74. other id: NSL 112713. locality: Malakal (Thro. H. Sabet), Darfur Province. remarks: Grown by Shilluk. Late maturing. Cultivated. Seed.
- PI 524494 donor id: K 75. origin: Sudan. local name: Adhorog. collected: 1977. collector: Kambal, A.E. collector id: K 75. other id: NSL 112714. locality: Malakal (Thro. H. Sabet), Darfur Province. remarks: Grown by Shilluk. Late maturing. Cultivated. Seed.
- PI 524495 donor id: K 76. origin: Sudan. local name: Wadjal Nyingaro. collected: 1977. collector: Kambal, A.E. collector id: K 76. other id: NSL 112715. locality: Malakal (Thro. H. Sabet), Darfur Province. remarks: Grown by Shilluk. Late maturing. Cultivated. Seed.
- PI 524496 donor id: K 77. origin: Sudan. local name: Malangore. collected: 1977. collector: Kambal, A.E. collector id: K 77. other id: NSL 112716. locality: Juba, Darfur Province. remarks: Sown July, harvested December by Fajelu. Cultivated. Seed.
- PI 524497 donor id: K 78. origin: Sudan. local name: Lodoka. collected: 1977. collector: Kambal, A.E. collector id: K 78. other id: NSL 112717. locality: Juba, Darfur Province. remarks: Sown April, harvested October/November. Grown by Bari. Cultivated. Seed.

PI 524447 to 524513-continued

- PI 524498 donor id: K 80. origin: Sudan. local name: Maresa. collected: 1977. collector: Kambal, A.E. collector id: K 80. other id: NSL 112718. locality: Juba, Darfur Province. remarks: Sown April, harvested July. Grown by Bari. Cultivated. Seed.
- PI 524499 donor id: K 81. origin: Sudan. local name: Landi. collected: 1977. collector: Kambal, A.E. collector id: K 81. other id: NSL 112719. locality: Juba, Darfur Province. remarks: Sown April, harvested July. Grown by Bari. Cultivated. Seed.
- PI 524500 donor id: K 82. origin: Sudan. local name: Kele. collected: 1977. collector: Kambal, A.E. collector id: K 82. other id: NSL 112720. locality: Juba, Darfur Province. remarks: Sown June, harvested December/January. Grown by Nyangwara. Cultivated. Seed.
- PI 524501 donor id: K 83. origin: Sudan. local name: Dimeri. collected: 1977. collector: Kambal, A.E. collector id: K 83. other id: NSL 112721. locality: Juba, Darfur Province. remarks: Sown April, harvested October. Grown by Nyangivara. Cultivated. Seed.
- PI 524502 donor id: K 84. origin: Sudan. local name: Loryerye. collected: 1977. collector: Kambal, A.E. collector id: K 84. other id: NSL 112722. locality: Mongala, Juba Dist., Darfur Province. remarks: Sown April, harvested December. Grown by Bari. Cultivated. Seed.
- PI 524503 donor id: K 85. origin: Sudan. local name: Mabior. collected: 1977. collector: Kambal, A.E. collector id: K 85. other id: NSL 112723. locality: Mariel.bai (Via Halima Res. Stn.), Darfur Province. remarks: From single head collected by Hopkinson in 1974. Cultivated. Seed.
- PI 524504 donor id: K 86. origin: Sudan. local name: Mabior. collected: 1977. collector: Kambal, A.E. collector id: K 86. other id: NSL 112724. locality: Mbili (Via Halima Res. Stn.) Darfur Province. remarks: From single head collected by Hopkinson in 1974. Cultivated. Seed.
- PI 524505 donor id: K 89. origin: Sudan. local name: Luwaiah. collected: 1977. collector: Kambal, A.E. collector id: K 89. other id: NSL 112725. locality: Wau (Via Halima Res. Stn.) Darfur Province. remarks: From single head collected by Hopkinson in 1974. Cultivated. Seed.

PI 524447 to 524513-continued

- PI 524506 donor id: K 90. origin: Sudan. local name: Rveka.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 90. other id: NSL 112726. locality: Wau bai(Via  
Halima Res. Stn.), Darfur Province. remarks: From single  
head collected by Hopkinson in 1974. Cultivated. Seed.
- PI 524507 donor id: K 91. origin: Sudan. local name: Baga.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 91. other id: NSL 112727. locality: Wau bai(Via  
Halima Res. Stn.), Darfur Province. remarks: From single  
head collected by Hopkinson in 1974. Cultivated. Seed.
- PI 524508 donor id: K 92. origin: Sudan. local name: Akwane.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 92. other id: NSL 112728. locality: Wau bai(Via  
Halima Res. Stn.), Darfur Province. remarks: From single  
head collected by Hopkinson in 1974. Cultivated. Seed.
- PI 524509 donor id: K 93. origin: Sudan. local name: Akarou.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 93. other id: NSL 112729. locality: Wau bai(Via  
Halima Res. Stn.), Darfur Province. remarks: From single  
head collected by Hopkinson in 1974. Cultivated. Seed.
- PI 524510 donor id: K 94. origin: Sudan. local name: Arumroor.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 94. other id: NSL 112730. locality: Wau bai(Via  
Halima Res. Stn.), Darfur Province. remarks: From single  
head collected by Hopkinson in 1974. Cultivated. Seed.
- PI 524511 donor id: K 96. origin: Sudan. local name: Bende.  
collected: 1977. collector: Kambal, A.E. collector id:  
K 96. other id: NSL 112731. locality: Wau bai(Via  
Halima Res. Stn.), Darfur Province. remarks: Seed from a  
bulk sample collected in 1974. Medium term variety sown  
in August. Resistant to shoot fty?. Cultivated. Seed.
- PI 524512 donor id: K 97. origin: Sudan. local name: Adar (Guinea  
grass). collected: 1977. collector: Kambal, A.E.  
collector id: K 97. other id: NSL 112732. locality:  
Anzara, Darfur Province. remarks: Sorghum bicolor ssp  
arundinaccum race Arundinaceum. Common along streams,  
foot paths in forests and fields of pineapple and coffee  
in Zande area. Seeds dormant. Cultivated. Seed.
- PI 524513 donor id: K 98. origin: Sudan. collected: 1977.  
collector: Kambal, A.E. collector id: K 98. other id:  
NSL 112733. Cultivated. Seed.

PI 524514 to 524567. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Ayad, W.G., IBPGR, Rome, Italy; and Kambal, A.E., Faculty of Agriculture, University of Khartoum, Shambat, Sudan.  
remarks: Received through IBPGR, Rome, Italy. Received September 1980.

- PI 524514 donor id: KD 005. origin: Sudan. local name: Mareg. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 005. other id: NSL 112610. locality: Wad Bahba, Darfur Province. latitude: 14 deg. 12 min. S. longitude: 26 deg. 28 min. E. remarks: Used for food. Cultivated. Seed.
- PI 524515 donor id: KD 012. origin: Sudan. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 012. other id: NSL 112611. locality: Fasher-Tawisla, Darfur Province. remarks: Used for food. Cultivated. Seed.
- PI 524516 donor id: KD 015. origin: Sudan. local name: Hargha. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 015. other id: NSL 112612. locality: Jebel Gardh, Darfur Province. remarks: Used for food/beer. High variable. Cultivated. Seed.
- PI 524517 donor id: KD 018. origin: Sudan. local name: Margha. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 018. other id: NSL 112614. locality: Abu Gasoon, Darfur Province. remarks: Smut disease. Cultivated. Seed.
- PI 524518 donor id: KD 019. origin: Sudan. local name: Margha. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 019. other id: NSL 112615. locality: Abu Gasoon, Darfur Province. remarks: Long glumes. Used for food. Pests includes smuts, birds and locust. Cultivated. Seed.
- PI 524519 donor id: KD 021. origin: Sudan. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 021. other id: NSL 112616. locality: Abu Gasoon, Darfur Province. remarks: Between wild and cultivated sorghum. Pests includes smuts, birds, locust and downy mildew. Cultivated. Seed.
- PI 524520 donor id: KD 022. origin: Sudan. local name: Margha. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 022. other id: NSL 112617. locality: Birket Savia, Darfur Province. latitude: 14 deg. 12 min. S. longitude: 22 deg. 24 min. E. remarks: Used for food. Pests includes smuts, downy mildew and locust. Cultivated. Seed.

PI 524514 to 524567-continued

- PI 524521 donor id: KD 025. origin: Sudan. local name: Kareng. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 025. other id: NSL 112618. locality: Saraf Omra, Darfur Province. remarks: Used for food/beer. Pests includes locust and birds. Cultivated. Seed.
- PI 524522 donor id: KD 029. origin: Sudan. local name: Margha. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 029. other id: NSL 112619. locality: Gimbinda El Geniena, Darfur Province. latitude: 14 deg. 12 min. S. longitude: 22 deg. 24 min. E. remarks: Used for food. Cultivated. Seed.
- PI 524523 donor id: KD 030. origin: Sudan. local name: Margha. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 030. other id: NSL 112620. locality: Gimbinda El Geniena, Darfur Province. remarks: Used for food. Cultivated. Seed.
- PI 524524 donor id: KD 031. origin: Sudan. local name: Margha. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 031. other id: NSL 112621. locality: Gimbinda El Geniena, Darfur Province. remarks: Used for chewing. Cultivated. Seed.
- PI 524525 donor id: KD 033. origin: Sudan. local name: Margha. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 033. other id: NSL 112622. locality: Nagadolo, Darfur Province. remarks: Used for food. Cultivated. Seed.
- PI 524526 donor id: KD 034. origin: Sudan. local name: Margha. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 034. other id: NSL 112623. locality: Nagadolo, Darfur Province. remarks: Used for food. Cultivated. Seed.
- PI 524527 donor id: KD 037. origin: Sudan. local name: Faseekh Abiad. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 037. other id: NSL 112624. locality: Idd el Gallaja, Darfur Province. remarks: Used for chewing/food. Pests includes smuts, locust, and ants. Cultivated. Seed.
- PI 524528 donor id: KD 038. origin: Sudan. local name: Maregkubar. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 038. other id: NSL 112625. locality: Idd el Gallaja, Darfur Province. latitude: 14 deg. 12 min. S. longitude: 22 deg. 24 min. E. remarks: Used for food. Pests includes smuts, ants, locust and sharraba. Cultivated. Seed.

PI 524514 to 524567-continued

- PI 524529 donor id: KD 039. origin: Sudan. local name: Asali. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 039. other id: NSL 112626. locality: Idd el Gallaja, Darfur Province. latitude: 14 deg. 12 min. S. longitude: 22 deg. 24 min. E. remarks: Used for chewing/food. Pests includes smuts, andata, locust and sharraba. Cultivated. Seed.
- PI 524530 donor id: KD 040. origin: Sudan. local name: Feterita. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 040. other id: NSL 112627. locality: Idd el Gallaja, Darfur Province. remarks: Used for food. Pests includes smuts, locust and striga. Cultivated. Seed.
- PI 524531 donor id: KD 041. origin: Sudan. local name: Ankoleeb. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 041. other id: NSL 112628. locality: Idd el Gallaja, Darfur Province. remarks: Used for chewing. Pests includes smuts, andats and locust. Cultivated. Seed.
- PI 524532 donor id: KD 042. origin: Sudan. local name: Wad el Fahal. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 042. other id: NSL 112629. locality: Idd el Gallaja, Darfur Province. remarks: Used for food. Pests includes smuts, andats, locust and birds. Cultivated. Seed.
- PI 524533 donor id: KD 043. origin: Sudan. local name: Hareg Fukka. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 043. other id: NSL 112630. locality: Idd el Gallaja, Darfur Province. remarks: Used for food. Pest includes Smuts, andats, and locust. Cultivated. Seed.
- PI 524534 donor id: KD 044. origin: Sudan. local name: Zirizira. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 044. other id: NSL 112631. locality: Idd el Gallaja, Darfur Province. remarks: Used for food. Pests includes smuts, andats, and locust. Cultivated. Seed.
- PI 524535 donor id: KD 045. origin: Sudan. local name: Sin el Marian. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 045. other id: NSL 112632. locality: Idd el Gallaja, Darfur Province. remarks: Used for food. Pests includes smuts, andats, and locust. Cultivated. Seed.



PI 524514 to 524567-continued

- PI 524536 donor id: KD 046. origin: Sudan. local name: Mareg Asfar. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 046. other id: NSL 112633. locality: Idd el Gallaja, Darfur Province. remarks: Used for food. Pests includes smuts, andats, and locust. Cultivated. Seed.
- PI 524537 donor id: KD 047. origin: Sudan. local name: Faseekh Abiad. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 047. other id: NSL 112634. locality: Zalengi, Darfur Province. latitude: 14 deg. 12 min. S. longitude: 22 deg. 24 min. E. remarks: Used for food. Pests includes smuts, leafspots and locust. Cultivated. Seed.
- PI 524538 donor id: KD 048. origin: Sudan. local name: Mareg. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 048. other id: NSL 112635. locality: Zalengi, Darfur Province. remarks: Used for food/beer. Smuts, leaf spots and locust damage. Cultivated. Seed.
- PI 524539 donor id: KD 050. origin: Sudan. local name: Feterita. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 050. other id: NSL 112636. locality: Zalengi, Darfur Province. remarks: Used for food/beer. Pests includes smuts, leafspots and locust. Cultivated. Seed.
- PI 524540 donor id: KD 052. origin: Sudan. local name: Dawa. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 052. other id: NSL 112637. locality: Zalengi, Darfur Province. remarks: Used for food/beer. Pests includes smuts, leafspots and locust. Cultivated. Seed.
- PI 524541 donor id: KD 054. origin: Sudan. local name: Ankoleeb. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 054. other id: NSL 112638. locality: Shawa, Darfur Province. remarks: Used for chewing/food. Pests includes smuts, locust and andats. Cultivated. Seed.
- PI 524542 donor id: KD 055. origin: Sudan. local name: Ankoleeb (red). collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 055. other id: NSL 112639. locality: Shawa, Darfur Province. remarks: Used for chewing/food. Pests includes smuts, locust and andats. Cultivated. Seed.

PI 524514 to 524567-continued

- PI 524543 donor id: KD 056. origin: Sudan. local name: Ankoleeb (yellow). collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 056. other id: NSL 112640. locality: Shawa, Darfur Province. remarks: Used for chewing/food. Pests includes smuts, locust and andats. Cultivated. Seed.
- PI 524544 donor id: KD 057. origin: Sudan. local name: Ankoleeb. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 057. other id: NSL 112641. locality: Shawa, Darfur Province. remarks: Used for chewing/food. Pests includes smuts, locust and andats. Cultivated. Seed.
- PI 524545 donor id: KD 064. origin: Sudan. local name: Mareg Kora. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 064. other id: NSL 112642. locality: Mortagillo, Darfur Province. remarks: Used for food. Cultivated. Seed.
- PI 524546 donor id: KD 065. origin: Sudan. local name: Mareg Asfar. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 065. other id: NSL 112643. locality: Mortagillo, Darfur Province. remarks: Used for food. Cultivated. Seed.
- PI 524547 donor id: KD 066. origin: Sudan. local name: Mareg Ahmar. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 066. other id: NSL 112644. locality: Mortagillo, Darfur Province. latitude: 14 deg. 12 min. N. longitude: 24 deg. 26 min. E. remarks: Used for food. Pests includes locust and andats. Cultivated. Seed.
- PI 524548 donor id: KD 070. origin: Sudan. local name: Mareg Ahmar. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 070. other id: NSL 112645. locality: Kas, Darfur Province. remarks: Used for food. Pest includes locust. Cultivated. Seed.
- PI 524549 donor id: KD 071. origin: Sudan. local name: Mareg Abiad. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 071. other id: NSL 112646. locality: Kas, Darfur Province. remarks: Used for food. Pests includes locust and birds. Cultivated. Seed.
- PI 524550 donor id: KD 074. origin: Sudan. local name: Abu Diguim. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 074. other id: NSL 112647. locality: El Kemila, Darfur Province. remarks: Used for food. Cultivated. Seed.

PI 524514 to 524567-continued

- PI 524551 donor id: KD 075. origin: Sudan. local name: Ankoleeb. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 075. other id: NSL 112648. locality: El Kemila, Darfur Province. remarks: Used for food. Cultivated. Seed.
- PI 524552 donor id: KD 076. origin: Sudan. local name: Ronkola. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 076. other id: NSL 112649. locality: El Kemila, Darfur Province. latitude: 12 deg. 12 min. S. longitude: 24 deg. 26 min. E. remarks: Used for food. Cultivated. Seed.
- PI 524553 donor id: KD 077. origin: Sudan. local name: El Najjad. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 077. other id: NSL 112650. locality: El Kemila, Darfur Province. latitude: 12 deg. 10 min. S. longitude: 24 deg. 26 min. E. remarks: Used for food. Cultivated. Seed.
- PI 524554 donor id: KD 078. origin: Sudan. local name: Abu Digin. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 078. other id: NSL 112651. locality: Graidda, Darfur Province. remarks: Used for food. No diseases or pests. Cultivated. Seed.
- PI 524555 donor id: KD 081. origin: Sudan. local name: Najjad. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 081. other id: NSL 112652. locality: El Gemisa, Darfur Province. remarks: Used for food. Pests includes birds. Cultivated. Seed.
- PI 524556 donor id: KD 082. origin: Sudan. local name: Mareg Tageel. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 082. other id: NSL 112653. locality: El Gemisa, Darfur Province. remarks: Used for food. Pests includes locust. Cultivated. Seed.
- PI 524557 donor id: KD 083. origin: Sudan. local name: Mareg Ahmar. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 083. other id: NSL 112654. locality: El Gemisa, Darfur Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524558 donor id: KD 088. origin: Sudan. local name: Hareg. collected: 1977. collector: Ayad, W.G., Kambal, A.E.. collector id: KD 088. other id: NSL 112655. locality: Buram, Darfur Province. remarks: Used for food. Smuts disease. Cultivated. Seed.

PI 524514 to 524567-continued

- PI 524559 donor id: KD 089. origin: Sudan. local name: Abu Digin. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 089. other id: NSL 112656. locality: Buram, Darfur Province. remarks: Used for food. Smuts disease. Cultivated. Seed.
- PI 524560 donor id: KD 090. origin: Sudan. local name: Abu Digin. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 090. other id: NSL 112657. locality: Dimsu, Darfur Province. remarks: Used for food. Cultivated. Seed.
- PI 524561 donor id: KD 091. origin: Sudan. local name: El Najjad. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 091. other id: NSL 112658. locality: Dimsu, Darfur Province. remarks: Used for food. Cultivated. Seed.
- PI 524562 donor id: KD 098. origin: Sudan. local name: Abu Digin. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 098. other id: NSL 112659. locality: Idd El Ghanam, Darfur Province. latitude: 12 deg. 10 min. S. longitude: 24 deg. 26 min. W. remarks: Used for food. Pests includes smut, leaf spots and locust. Cultivated. Seed.
- PI 524563 donor id: KD 100. origin: Sudan. local name: Durra Abyad. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 100. other id: NSL 112660. locality: Idd El Ghanam, Darfur Province. remarks: Used for food. Pests includes smut and locust. Cultivated. Seed.
- PI 524564 donor id: KD 102. origin: Sudan. local name: Mareg Kubar. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 102. other id: NSL 112661. locality: Shorum, Darfur Province. remarks: Used for food. Pests includes smut, locust and andats. Cultivated. Seed.
- PI 524565 donor id: KD 103. origin: Sudan. local name: Mareg Kubar Aswad. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 103. other id: NSL 112662. locality: Shorum, Darfur Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524566 donor id: KD 108. origin: Sudan. local name: Hemiera. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 108. other id: NSL 112663. locality: Hegalega, Darfur Province. remarks: Used for chewing/food. Pests includes smuts and andats. Cultivated. Seed.

PI 524514 to 524567-continued

PI 524567 donor id: KD 109. origin: Sudan. local name: Al Zinnary. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 109. other id: NSL 112664. locality: Hegalega, Darfur Province. remarks: Used for food. Cultivated. Seed.

PI 524568. *Sorghum arundinaceum* (Desv.) Stapf POACEAE

Donated by: Ayad, W.G., IBPGR, Rome, Italy; and Kambal, A.E., Faculty of Agriculture, University of Khartoum, Shambat, Sudan. remarks: Received through IBPGR, Rome, Italy. Received September 1980.

donor id: KD 17. origin: Sudan. local name: Adar. collected: 1977. collector: Ayad, W.G., Kambal, A.E. collector id: KD 17. other id: NSL 112613. locality: Abu Gosoon, Darfur Province. Wild. Seed.

PI 524569 to 524717. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Denton, I.R., IBPGR, Rome, Italy; and Mohommed, M.E.A., El Obeid, Sudan; and El Fadul, A.H., El Obeid, Sudan. remarks: Received through IBPGR, Rome, Italy. Received September 1980.

PI 524569 donor id: 001. origin: Sudan. local name: Mareg. collected: 1977. collector: Denton, I.R. collector id: 001. other id: NSL 112787. locality: Um Laotha, Kordofan Province. latitude: 14 deg. 12 min. N. longitude: 30 deg. 32 min. E. remarks: Used for food. Smut disease. Cultivated. Seed.

PI 524570 donor id: 002. origin: Sudan. local name: Najjad. collected: 1977. collector: Denton, I.R. collector id: 002. other id: NSL 112788. locality: Abu Haraz, Kordofan Province. latitude: 14 deg. 12 min. N. longitude: 28 deg. 30 min. E. remarks: Used for food. Pests includes smut. Cultivated. Seed.

PI 524571 donor id: 003. origin: Sudan. local name: Zinnary. collected: 1977. collector: Denton, I.R. collector id: 003. other id: NSL 112789. locality: Abu Haraz, Kordofan Province. remarks: Used for food. Pests includes smut, locust and monkeys. Cultivated. Seed.

PI 524572 donor id: 004. origin: Sudan. local name: Mareg. collected: 1977. collector: Denton, I.R. collector id: 004. other id: NSL 112790. locality: El Shage, Kordofan Province. remarks: Used for food. Pests includes stemborers. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524573 donor id: 005. origin: Sudan. local name: Zinnary. collected: 1977. collector: Denton, I.R. collector id: 005. other id: NSL 112791. locality: El Khuwai, Kordofan Province. remarks: Used for food. Pests includes birds, locust, stemborer and striga. Cultivated. Seed.
- PI 524574 donor id: KD 006. origin: Sudan. local name: Najjad. collected: 1977. collector: Denton, I.R. collector id: KD 006. other id: NSL 112792. locality: El Khuwai, Kordofan Province. remarks: Used for food. Pests includes birds and locust. Cultivated. Seed.
- PI 524575 donor id: 007. origin: Sudan. local name: Dura. collected: 1977. collector: Denton, I.R. collector id: 007. other id: NSL 112793. locality: El Khuwai, Kordofan Province. remarks: Used for food. Pests includes birds, locust and stemborer. Cultivated. Seed.
- PI 524576 donor id: 008. origin: Sudan. local name: Mugud. collected: 1977. collector: Denton, I.R. collector id: 008. other id: NSL 112794. locality: Um Shalaya, Kordofan Province. remarks: Used for food. Pests includes locust and birds. Cultivated. Seed.
- PI 524577 donor id: 009. origin: Sudan. local name: Mugud Ahmer. collected: 1977. collector: Denton, I.R. collector id: 009. other id: NSL 112795. locality: Um Shalaya, Kordofan Province. remarks: Used for food. Pests includes locust and birds. Cultivated. Seed.
- PI 524578 donor id: 010. origin: Sudan. local name: Najjad. collected: 1977. collector: Denton, I.R. collector id: 010. other id: NSL 112796. locality: Um Shalaya, Kordofan Province. remarks: Used for food. Pests includes locust and birds. Cultivated. Seed.
- PI 524579 donor id: 011. origin: Sudan. local name: Gijayjoe. collected: 1977. collector: Denton, I.R. collector id: 011. other id: NSL 112797. locality: Fakuki, Kordofan Province. remarks: Used for food. Pests includes locust and birds. Cultivated. Seed.
- PI 524580 donor id: 012. origin: Sudan. local name: Mugud Ahmer. collected: 1977. collector: Denton, I.R. collector id: 012. other id: NSL 112798. locality: Fakuki, Kordofan Province. remarks: Used for food. Pests includes locust and birds. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524581 donor id: 013. origin: Sudan. local name: Ankoleeb.  
collected: 1977. collector: Denton, I.R. collector id:  
013. other id: NSL 112799. locality: Fakuki, Kordofan  
Province. remarks: Used for food. Pests includes smut.  
Cultivated. Seed.
- PI 524582 donor id: 014. origin: Sudan. local name: Zinnary.  
collected: 1977. collector: Denton, I.R. collector id:  
014. other id: NSL 112800. locality: Fakuki, Kordofan  
Province. remarks: Used for food. Pests includes smut.  
Cultivated. Seed.
- PI 524583 donor id: 015. origin: Sudan. local name: Safra.  
collected: 1977. collector: Denton, I.R. collector id:  
015. other id: NSL 112801. locality: Fakuki, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524584 donor id: 016. origin: Sudan. local name: Zinnary.  
collected: 1977. collector: Denton, I.R. collector id:  
016. other id: NSL 112802. locality: Gabeish, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524585 donor id: 017. origin: Sudan. local name: Zinnary.  
collected: 1977. collector: Denton, I.R. collector id:  
017. other id: NSL 112803. locality: Um Chak, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524586 donor id: 018. origin: Sudan. local name: Zinnary.  
collected: 1977. collector: Denton, I.R. collector id:  
018. other id: NSL 112804. locality: El Odaiya,  
Kordofan Province. remarks: Used for food. Cultivated.  
Seed.
- PI 524587 donor id: 019. origin: Sudan. local name: Zinnary.  
collected: 1977. collector: Denton, I.R. collector id:  
019. other id: NSL 112805. locality: Kordofan Province.  
remarks: Used for food. Pests includes Locust and  
stemborer. Cultivated. Seed.
- PI 524588 donor id: 020. origin: Sudan. local name: Zinnary.  
collected: 1977. collector: Denton, I.R. collector id:  
020. other id: NSL 112806. locality: Um Rusum, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524589 donor id: 021. origin: Sudan. local name: Zinnary.  
collected: 1977. collector: Denton, I.R. collector id:  
021. other id: NSL 112807. locality: Kordofan Province.  
remarks: Used for food. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524590 donor id: 022. origin: Sudan. local name: Zinnary Tageel. collected: 1977. collector: Denton, I.R. collector id: 022. other id: NSL 112808. locality: Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524591 donor id: 023. origin: Sudan. local name: Feterita. collected: 1977. collector: Denton, I.R. collector id: 023. other id: NSL 112809. locality: Abu Zabeđ, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524592 donor id: 024. origin: Sudan. local name: Tow-Tow. collected: 1977. collector: Denton, I.R. collector id: 024. other id: NSL 112810. locality: Abu Zabeđ, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524593 donor id: 025. origin: Sudan. local name: Arainya. collected: 1977. collector: Denton, I.R. collector id: 025. other id: NSL 112811. locality: Abu Zabeđ, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524594 donor id: 026. origin: Sudan. local name: Zinnary. collected: 1977. collector: Denton, I.R. collector id: 026. other id: NSL 112812. locality: Abu Zabeđ, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524595 donor id: 027. origin: Sudan. local name: Jebaly. collected: 1977. collector: Denton, I.R. collector id: 027. other id: NSL 112813. locality: Abu Zabeđ, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524596 donor id: 028. origin: Sudan. local name: Galb el Jamal. collected: 1977. collector: Denton, I.R. collector id: 028. other id: NSL 112814. locality: Um Rusum, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524597 donor id: 029. origin: Sudan. local name: Safra Arumna. collected: 1977. collector: Denton, I.R. collector id: 029. other id: NSL 112815. locality: Kordofan Province. remarks: Used for food. Pests includes birds and grasshoppers. Cultivated. Seed.



PI 524569 to 524717-continued

- PI 524598 donor id: 030. origin: Sudan. local name: Zinnary. collected: 1977. collector: Denton, I.R. collector id: 030. other id: NSL 112816. locality: Um Rusum, Kordofan Province. remarks: Used for food. Pests includes birds locust and stemborers. Cultivated. Seed.
- PI 524599 donor id: 031. origin: Sudan. local name: Maramaka. collected: 1977. collector: Denton, I.R. collector id: 031. other id: NSL 112817. locality: Dilling, Korodofan Province. latitude: 14 deg. 12 min. N. longitude: 28 deg. 30 min. E. remarks: Used for food/beer. Cultivated. Seed.
- PI 524600 donor id: 032. origin: Sudan. local name: Maramaka (red). collected: 1977. collector: Denton, I.R. collector id: 032. other id: NSL 112818. locality: Dilling, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524601 donor id: 033. origin: Sudan. local name: Ariana. collected: 1977. collector: Denton, I.R. collector id: 033. other id: NSL 112819. locality: Dilling, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524602 donor id: 034. origin: Sudan. local name: Karamaka (white). collected: 1977. collector: Denton, I.R. collector id: 034. other id: NSL 112820. locality: Dilling, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524603 donor id: 035. origin: Sudan. local name: Karamaka (red). collected: 1977. collector: Denton, I.R. collector id: 035. other id: NSL 112821. locality: Dilling, Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 28 deg. 30 min. E. remarks: Used for food/beer. Cultivated. Seed.
- PI 524604 donor id: 036. origin: Sudan. local name: Wee. collected: 1977. collector: Denton, I.R. collector id: 036. other id: NSL 112822. locality: Wali, Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 28 deg. 30 min. E. remarks: Used for food/beer. Cultivated. Seed.
- PI 524605 donor id: 037. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 037. other id: NSL 112823. locality: 29km S of Dilling, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524606 donor id: 038. origin: Sudan. collected: 1977.  
collector: Denton, I.R. collector id: 038. locality:  
Dilling, Kordofan Province. Cultivated. Seed.
- PI 524607 donor id: 039. origin: Sudan. local name: Kulum.  
collected: 1977. collector: Denton, I.R. collector id:  
039. other id: NSL 112824. locality: 39km from Dilling,  
Kordofan Province. remarks: Used for food/beer.  
Cultivated. Seed.
- PI 524608 donor id: 040. origin: Sudan. local name: Kulum.  
collected: 1977. collector: Denton, I.R. collector id:  
040. other id: NSL 112825. locality: 39km from Dilling,  
Kordofan Province. remarks: Used for food/beer. Tall  
variety. Cultivated. Seed.
- PI 524609 donor id: 041. origin: Sudan. local name: Bakhit.  
collected: 1977. collector: Denton, I.R. collector id:  
041. other id: NSL 112826. locality: El Lagowa,  
Kordofan Province. remarks: Used for food/beer. Pests  
include birds and locust. Cultivated. Seed.
- PI 524610 donor id: 042. origin: Sudan. local name: Bakhit.  
collected: 1977. collector: Denton, I.R. collector id:  
042. other id: NSL 112827. locality: El Lagowa,  
Kordofan Province. remarks: Used for food/beer. Pests  
include birds and locust. Cultivated. Seed.
- PI 524611 donor id: 043. origin: Sudan. local name: Bakhit.  
collected: 1977. collector: Denton, I.R. collector id:  
043. other id: NSL 112828. locality: El Lagowa,  
Kordofan Province. remarks: Used for food/beer. Pests  
include smut, birds and locust. Cultivated. Seed.
- PI 524612 donor id: 044. origin: Sudan. local name: Kulum.  
collected: 1977. collector: Denton, I.R. collector id:  
044. other id: NSL 112829. locality: Damik, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524613 donor id: 045. origin: Sudan. local name: Dulung.  
collected: 1977. collector: Denton, I.R. collector id:  
045. other id: NSL 112830. locality: Damik, Kordofan  
Province. remarks: Used for food. Pests include insects.  
Cultivated. Seed.
- PI 524614 donor id: 046. origin: Sudan. local name: Nyili-Nyili.  
collected: 1977. collector: Denton, I.R. collector id:  
046. other id: NSL 112831. locality: Damik, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524615 donor id: 047. origin: Sudan. local name: Safra. collected: 1977. collector: Denton, I.R. collector id: 047. other id: NSL 112832. locality: El Bardab, Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 28 deg. 30 min. E. remarks: Used for food. Cultivated. Seed.
- PI 524616 donor id: 048. origin: Sudan. local name: Dulung. collected: 1977. collector: Denton, I.R. collector id: 048. other id: NSL 112833. locality: El Bardab, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524617 donor id: 049. origin: Sudan. local name: Nyili-Nyili. collected: 1977. collector: Denton, I.R. collector id: 049. other id: NSL 112834. locality: El Bardab, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524618 donor id: 050. origin: Sudan. local name: Kulum. collected: 1977. collector: Denton, I.R. collector id: 050. other id: NSL 112835. locality: Jebel El Masakeen, Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 30 deg. 32 min. E. remarks: Used for food. Cultivated. Seed.
- PI 524619 donor id: 051. origin: Sudan. local name: Taeuli. collected: 1977. collector: Denton, I.R. collector id: 051. other id: NSL 112836. locality: Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 28 deg. 30 min. E. remarks: Used for food. Cultivated. Seed.
- PI 524620 donor id: 052. origin: Sudan. local name: Kulum. collected: 1977. collector: Denton, I.R. collector id: 052. other id: NSL 112837. locality: Um Demm, Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 30 deg. 32 min. E. remarks: Used for food. Cultivated. Seed.
- PI 524621 donor id: 053. origin: Sudan. local name: Falata. collected: 1977. collector: Denton, I.R. collector id: 053. other id: NSL 112838. locality: El Masheisha, Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 28 deg. 30 min. E. remarks: Used for food. Cultivated. Seed.
- PI 524622 donor id: 054. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 054. other id: NSL 112839. locality: Um Demm, Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 30 deg. 32 min. E. remarks: Used for food. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524623 donor id: 055. origin: Sudan. local name: Kulum.  
collected: 1977. collector: Denton, I.R. collector id:  
055. other id: NSL 112840. locality: Jebel Kufa,  
Kordofan Province. remarks: Used for food. Cultivated.  
Seed.
- PI 524624 donor id: 056. origin: Sudan. local name: Kulgi.  
collected: 1977. collector: Denton, I.R. collector id:  
056. other id: NSL 112841. locality: Kalogi, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524625 donor id: 057. origin: Sudan. local name: Kulum.  
collected: 1977. collector: Denton, I.R. collector id:  
057. other id: NSL 112842. locality: Meri Burra,  
Kordofan Province. remarks: Used for food. Cultivated.  
Seed.
- PI 524626 donor id: 058. origin: Sudan. local name: Kulum.  
collected: 1977. collector: Denton, I.R. collector id:  
058. other id: NSL 112843. locality: Kaiga el Khail,  
Kordofan Province. remarks: Used for food. Cultivated.  
Seed.
- PI 524627 donor id: 059. origin: Sudan. collected: 1977.  
collector: Denton, I.R. collector id: 059. other id:  
NSL 112844. locality: Um Demm, Kordofan Province.  
remarks: Used for food. Cultivated. Seed.
- PI 524628 donor id: 060. origin: Sudan. local name: Shala.  
collected: 1977. collector: Denton, I.R. collector id:  
060. other id: NSL 112845. locality: Um Dego, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524629 donor id: 061. origin: Sudan. collected: 1977.  
collector: Denton, I.R. collector id: 061. other id:  
NSL 112846. locality: Wad el Gusar, Kordofan Province.  
remarks: Used for food. Cultivated. Seed.
- PI 524630 donor id: 062. origin: Sudan. local name: Tomgoro.  
collected: 1977. collector: Denton, I.R. collector id:  
062. other id: NSL 112847. locality: Jebel Farma,  
Kordofan Province. latitude: 12 deg. 10 min. N.  
longitude: 30 deg. 32 min. E. remarks: Used for food.  
Cultivated. Seed.
- PI 524631 donor id: 063. origin: Sudan. local name: James.  
collected: 1977. collector: Denton, I.R. collector id:  
063. other id: NSL 112848. locality: Jebel Lima,  
Kordofan Province. remarks: Used for food. Cultivated.  
Seed.

PI 524569 to 524717-continued

- PI 524632 donor id: 064. origin: Sudan. local name: Falata. collected: 1977. collector: Denton, I.R. collector id: 064. other id: NSL 112849. locality: El Masheisha, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524633 donor id: 065. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 065. other id: NSL 112850. locality: Um Demm, Kordofan Province. Cultivated. Seed.
- PI 524634 donor id: 066. origin: Sudan. local name: Khashum Madina. collected: 1977. collector: Denton, I.R. collector id: 066. other id: NSL 112851. locality: Wad Ais, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524635 donor id: 067. origin: Sudan. local name: Anzala. collected: 1977. collector: Denton, I.R. collector id: 067. other id: NSL 112852. locality: Jebel Miribara, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524636 donor id: 068. origin: Sudan. local name: Sefiera. collected: 1977. collector: Denton, I.R. collector id: 068. other id: NSL 112853. locality: El Ehaimer, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524637 donor id: 069. origin: Sudan. local name: Makoya. collected: 1977. collector: Denton, I.R. collector id: 069. other id: NSL 112854. locality: Um Demm, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524638 donor id: 070. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 070. other id: NSL 112855. locality: Um Demm, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524639 donor id: 071. origin: Sudan. local name: Amsik Maratak. collected: 1977. collector: Denton, I.R. collector id: 071. other id: NSL 112856. locality: Talodi, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524640 donor id: 072. origin: Sudan. local name: Um Benein. collected: 1977. collector: Denton, I.R. collector id: 072. other id: NSL 112857. locality: Semeih, Kordofan Province. remarks: Used for food. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524641 donor id: 073. origin: Sudan. collected: 1977.  
collector: Denton, I.R. collector id: 073. other id:  
NSL 112858. locality: Um Demm, Kordofan Province.  
remarks: Used for food. Cultivated. Seed.
- PI 524642 donor id: 075. origin: Sudan. local name: Thaguma.  
collected: 1977. collector: Denton, I.R. collector id:  
075. other id: NSL 112860. locality: El Kutan, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524643 donor id: 076. origin: Sudan. local name: Wany Gaithy.  
collected: 1977. collector: Denton, I.R. collector id:  
076. other id: NSL 112861. locality: El Kutan, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524644 donor id: 077. origin: Sudan. local name: Lannuri.  
collected: 1977. collector: Denton, I.R. collector id:  
077. other id: NSL 112862. locality: El Kutan, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524645 donor id: 078. origin: Sudan. local name: Kulum.  
collected: 1977. collector: Denton, I.R. collector id:  
078. other id: NSL 112863. locality: El Kutan, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524646 donor id: 079. origin: Sudan. local name: Kulum  
(orange). collected: 1977. collector: Denton, I.R.  
collector id: 079. other id: NSL 112864. locality: El  
Kutan, Kordofan Province. remarks: Used for food.  
Cultivated. Seed.
- PI 524647 donor id: 080. origin: Sudan. local name: Ghala Baida.  
collected: 1977. collector: Denton, I.R. collector id:  
080. other id: NSL 112865. locality: Talodi-El-Gose,  
Kordofan Province. remarks: Used for food/beer.  
Cultivated. Seed.
- PI 524648 donor id: 081. origin: Sudan. local name: Najjad.  
collected: 1977. collector: Denton, I.R. collector id:  
081. other id: NSL 112866. locality: Talodi, Kordofan  
Province. remarks: Used for food/beer. Cultivated.  
Seed.
- PI 524649 donor id: 082. origin: Sudan. local name: Abu Hamir.  
collected: 1977. collector: Denton, I.R. collector id:  
082. other id: NSL 112867. locality: Abu Hamir,  
Kordofan Province. remarks: Used for food/beer.  
Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524650 donor id: 083. origin: Sudan. local name: Farik. collected: 1977. collector: Denton, I.R. collector id: 083. other id: NSL 112868. locality: Leari, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524651 donor id: 084. origin: Sudan. local name: Chokoria. collected: 1977. collector: Denton, I.R. collector id: 084. other id: NSL 112869. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524652 donor id: 085. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 085. other id: NSL 112870. locality: Leari, Kordofan Province. remarks: Used for food/beer and chewing. Cultivated. Seed.
- PI 524653 donor id: 086. origin: Sudan. local name: Um Sefeira (yellow). collected: 1977. collector: Denton, I.R. collector id: 086. other id: NSL 112871. locality: Leari, Kordofan Province. Cultivated. Seed.
- PI 524654 donor id: 087. origin: Sudan. local name: Huria. collected: 1977. collector: Denton, I.R. collector id: 087. other id: NSL 112872. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524655 donor id: 088. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 088. other id: NSL 112873. locality: Leari, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524656 donor id: 089. origin: Sudan. local name: Malak. collected: 1977. collector: Denton, I.R. collector id: 089. other id: NSL 112874. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524657 donor id: 090. origin: Sudan. local name: Chokoria. collected: 1977. collector: Denton, I.R. collector id: 090. other id: NSL 112875. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524658 donor id: 091. origin: Sudan. local name: Kurgi. collected: 1977. collector: Denton, I.R. collector id: 091. other id: NSL 112876. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524659 donor id: 092. origin: Sudan. local name: Saliy. collected: 1977. collector: Denton, I.R. collector id: 092. other id: NSL 112877. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524660 donor id: 093. origin: Sudan. local name: Um Kurundu. collected: 1977. collector: Denton, I.R. collector id: 093. other id: NSL 112878. locality: Leari, Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 30 deg. 32 min. E. remarks: Used for food/beer and chewing. Cultivated. Seed.
- PI 524661 donor id: 094. origin: Sudan. local name: Farik. collected: 1977. collector: Denton, I.R. collector id: 094. other id: NSL 112879. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524662 donor id: 095. origin: Sudan. local name: Baagosh. collected: 1977. collector: Denton, I.R. collector id: 095. other id: NSL 112880. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524663 donor id: 096. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 096. other id: NSL 112881. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524664 donor id: 097. origin: Sudan. local name: Ghala Kabish. collected: 1977. collector: Denton, I.R. collector id: 097. other id: NSL 112882. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524665 donor id: 098(A). origin: Sudan. local name: Mashrula. collected: 1977. collector: Denton, I.R. collector id: 098(A). other id: NSL 112883. locality: Leari, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524666 donor id: 098(B). origin: Sudan. local name: Tobala. collected: 1977. collector: Denton, I.R. collector id: 098(B). other id: NSL 236601. locality: Kalogi, Kordofan Province. latitude: 12 deg. 10 min. N. longitude: 30 deg. 32 min. E. Cultivated. Seed.



PI 524569 to 524717-continued

- PI 524667 donor id: 099. origin: Sudan. local name: Najjad.  
collected: 1977. collector: Denton, I.R. collector id:  
099. other id: NSL 112884. locality: Kalogi, Kordofan  
Province. remarks: Used for food. Pests includes locust,  
birds, and stemborers. Cultivated. Seed.
- PI 524668 donor id: 100. origin: Sudan. local name: Kulum.  
collected: 1977. collector: Denton, I.R. collector id:  
100. other id: NSL 112885. locality: Kalogi, Kordofan  
Province. remarks: Used for food/beer. Pests include  
locust, birds and stemborers. Cultivated. Seed.
- PI 524669 donor id: 101. origin: Sudan. local name: Huria.  
collected: 1977. collector: Denton, I.R. collector id:  
101. other id: NSL 112886. locality: Kalogi, Kordofan  
Province. remarks: Used for food/beer. Pests include  
locust, birds and stemborers. Cultivated. Seed.
- PI 524670 donor id: 102. origin: Sudan. local name: Malek.  
collected: 1977. collector: Denton, I.R. collector id:  
102. other id: NSL 112887. locality: Kalogi, Kordofan  
Province. remarks: Used for food/beer. Pests include  
locust, birds and stemborers. Cultivated. Seed.
- PI 524671 donor id: 103. origin: Sudan. collected: 1977.  
collector: Denton, I.R. collector id: 103. other id:  
NSL 112888. locality: Kalogi, Kordofan Province.  
remarks: Pests include locust, birds and stemborers.  
Cultivated. Seed.
- PI 524672 donor id: 104. origin: Sudan. local name: Maja.  
collected: 1977. collector: Denton, I.R. collector id:  
104. other id: NSL 112889. locality: Kalogi, Kordofan  
Province. remarks: Pests include locust, birds and  
stemborers. Cultivated. Seed.
- PI 524673 donor id: 105. origin: Sudan. local name: Huria.  
collected: 1977. collector: Denton, I.R. collector id:  
105. other id: NSL 112890. locality: Kalogi, Kordofan  
Province. remarks: Used for food/beer. Pest include  
locust, birds and stemborers. Cultivated. Seed.
- PI 524674 donor id: 106. origin: Sudan. local name: Nyily-Nyily.  
collected: 1977. collector: Denton, I.R. collector id:  
106. other id: NSL 112891. locality: Kalogi, Kordofan  
Province. remarks: Used for food/beer. Pest include  
locust, birds and stemborers. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524675 donor id: 107. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 107. other id: NSL 112892. locality: Kalogi, Kordofan Province. remarks: Used for food/beer and chewing. Pests include locust, birds and stemborers. Cultivated. Seed.
- PI 524676 donor id: 108. origin: Sudan. local name: Sefiera. collected: 1977. collector: Denton, I.R. collector id: 108. other id: NSL 112893. locality: Kalogi, Kordofan Province. remarks: Used for food/beer. Pests include locust, birds and stemborers. Cultivated. Seed.
- PI 524677 donor id: 109. origin: Sudan. local name: Robai. collected: 1977. collector: Denton, I.R. collector id: 109. other id: NSL 112894. locality: Kalogi, Kordofan Province. remarks: Used for food/beer. Pests include locust, birds and stemborers. Cultivated. Seed.
- PI 524678 donor id: 110. origin: Sudan. local name: Kurgi. collected: 1977. collector: Denton, I.R. collector id: 110. other id: NSL 112895. locality: Abu Gubeiha, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524679 donor id: 111. origin: Sudan. local name: Kulum. collected: 1977. collector: Denton, I.R. collector id: 111. other id: NSL 112896. locality: Abu Gubeiha, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524680 donor id: 112. origin: Sudan. local name: Barky. collected: 1977. collector: Denton, I.R. collector id: 112. other id: NSL 112897. locality: Abu Gubeiha, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524681 donor id: 113. origin: Sudan. local name: Nyily-Nyily. collected: 1977. collector: Denton, I.R. collector id: 113. other id: NSL 112898. locality: Abu Gubeiha, Kordofan Province. remarks: Used for beer. Cultivated. Seed.
- PI 524682 donor id: 114. origin: Sudan. local name: Gasaby. collected: 1977. collector: Denton, I.R. collector id: 114. other id: NSL 112899. locality: Abu Gubeiha, Kordofan Province. remarks: Used for beer. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524683 donor id: 115. origin: Sudan. local name: Amuna.  
collected: 1977. collector: Denton, I.R. collector id:  
115. other id: NSL 112900. locality: Abu Gubeiha,  
Kordofan Province. remarks: Pests includes birds.  
Cultivated. Seed.
- PI 524684 donor id: 116. origin: Sudan. local name: Tobala.  
collected: 1977. collector: Denton, I.R. collector id:  
116. other id: NSL 112901. locality: Abu Gubeiha,  
Kordofan Province. remarks: Used for food/beer. Pests  
includes birds. Cultivated. Seed.
- PI 524685 donor id: 117. origin: Sudan. local name: Chokoria.  
collected: 1977. collector: Denton, I.R. collector id:  
117. other id: NSL 112902. locality: Abu Gubeiha,  
Kordofan Province. remarks: Used for food/beer. Pests  
includes birds. Cultivated. Seed.
- PI 524686 donor id: 118. origin: Sudan. local name: Najjad.  
collected: 1977. collector: Denton, I.R. collector id:  
118. other id: NSL 112903. locality: Abu Gubeiha,  
Kordofan Province. remarks: Used for beer. Pests  
includes birds. Cultivated. Seed.
- PI 524687 donor id: 119. origin: Sudan. local name: Um  
Shaishilate. collected: 1977. collector: Denton, I.R.  
collector id: 119. other id: NSL 112904. locality: Abu  
Gubeiha, Kordofan Province. remarks: Used for food/beer.  
Pests includes birds. Cultivated. Seed.
- PI 524688 donor id: 120. origin: Sudan. local name: Dobar.  
collected: 1977. collector: Denton, I.R. collector id:  
120. other id: NSL 112905. locality: Abu Gubeiha,  
Kordofan Province. remarks: Used for food/beer. Pests  
includes birds. Cultivated. Seed.
- PI 524689 donor id: 121. origin: Sudan. local name: Kulum.  
collected: 1977. collector: Denton, I.R. collector id:  
121. other id: NSL 112906. locality: Rashad, Kordofan  
Province. remarks: Used for food. Cultivated. Seed.
- PI 524690 donor id: 122. origin: Sudan. local name: Zira-Zira.  
collected: 1977. collector: Denton, I.R. collector id:  
122. other id: NSL 112907. locality: Rashad, Kordofan  
Province. latitude: 12 deg. 10 min. N. longitude: 30  
deg. 32 min. E. remarks: Used for food. Cultivated.  
Seed.

PI 524569 to 524717-continued

- PI 524691 donor id: 123. origin: Sudan. local name: Kabai-Kabai. collected: 1977. collector: Denton, I.R. collector id: 123. other id: NSL 112908. locality: Rashad, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524692 donor id: 124. origin: Sudan. local name: Nyily-Nyily. collected: 1977. collector: Denton, I.R. collector id: 124. other id: NSL 112909. locality: Rashad, Kordofan Province. Cultivated. Seed.
- PI 524693 donor id: 125. origin: Sudan. local name: Kulum. collected: 1977. collector: Denton, I.R. collector id: 125. other id: NSL 112910. locality: Rashad, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524694 donor id: 126. origin: Sudan. local name: Mayo. collected: 1977. collector: Denton, I.R. collector id: 126. other id: NSL 112911. locality: Um Brembeta, Kordofan Province. latitude: 14 deg. 12 min. N. longitude: 30 deg. 32 min. E. remarks: Used for food/beer. Pests include Head smut and stemborer. Cultivated. Seed.
- PI 524695 donor id: 127. origin: Sudan. local name: Wad Margani. collected: 1977. collector: Denton, I.R. collector id: 127. other id: NSL 112912. locality: Um Brembeta, Kordofan Province. remarks: Used for food/beer. Pests include Head smut and stemborer. Cultivated. Seed.
- PI 524696 donor id: 128. origin: Sudan. local name: Mugud. collected: 1977. collector: Denton, I.R. collector id: 128. other id: NSL 112913. locality: Um Brembeta, Kordofan Province. remarks: Used for food/beer. Pests include Head smut and stemborer. Cultivated. Seed.
- PI 524697 donor id: 129. origin: Sudan. local name: Habashiya. collected: 1977. collector: Denton, I.R. collector id: 129. other id: NSL 112914. locality: Um Brembeta, Kordofan Province. remarks: Used for food/beer. Pests include Head smut and stemborer. Cultivated. Seed.
- PI 524698 donor id: 130. origin: Sudan. local name: Zinnary. collected: 1977. collector: Denton, I.R. collector id: 130. other id: NSL 112915. locality: Um Brembeta, Kordofan Province. remarks: Pests include Head smut and stemborer. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524699 donor id: 131. origin: Sudan. local name: Tapira. collected: 1977. collector: Denton, I.R. collector id: 131. other id: NSL 112916. locality: Um Brembeta, Kordofan Province. remarks: Used for food/beer. Pests include Head smut and stemborer. Cultivated. Seed.
- PI 524700 donor id: 132. origin: Sudan. local name: Tapira. collected: 1977. collector: Denton, I.R. collector id: 132. other id: NSL 112917. locality: Abu Karshola, Kordofan Province. latitude: 14 deg. 12 min. N. longitude: 30 deg. 32 min. E. remarks: Used for food/beer. Cultivated. Seed.
- PI 524701 donor id: 133. origin: Sudan. local name: Zirezira. collected: 1977. collector: Denton, I.R. collector id: 133. other id: NSL 112918. locality: Abu Karshola, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524702 donor id: 134. origin: Sudan. local name: Tapira. collected: 1977. collector: Denton, I.R. collector id: 134. other id: NSL 112919. locality: Abu Karshola, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524703 donor id: 135. origin: Sudan. local name: Sefeira. collected: 1977. collector: Denton, I.R. collector id: 135. other id: NSL 112920. locality: Abu Karshola, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524704 donor id: 136. origin: Sudan. local name: Tapira Beida (white). collected: 1977. collector: Denton, I.R. collector id: 136. other id: NSL 112921. locality: Abu Karshola, Kordofan Province. remarks: Used for food/beer. Cultivated. Seed.
- PI 524705 donor id: 137. origin: Sudan. local name: Feterita. collected: 1977. collector: Denton, I.R. collector id: 137. other id: NSL 112922. locality: Er Rahad, Kordofan Province. remarks: Used for food/beer. Pests include stemborer and birds. Cultivated. Seed.
- PI 524706 donor id: 138. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 138. other id: NSL 112923. locality: Er Rahad, Kordofan Province. remarks: Used for food/beer. Pests include stemborer and birds. Cultivated. Seed.

PI 524569 to 524717-continued

- PI 524707 donor id: 139. origin: Sudan. local name: Zinnary. collected: 1977. collector: Denton, I.R. collector id: 139. other id: NSL 112924. locality: Er Rahad, Kordofan Province. remarks: Used for food/beer. Pests include stemborer and birds. Cultivated. Seed.
- PI 524708 donor id: 140. origin: Sudan. local name: Hemira. collected: 1977. collector: Denton, I.R. collector id: 140. other id: NSL 112925. locality: Kutala, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524709 donor id: 141. origin: Sudan. local name: Dangir. collected: 1977. collector: Denton, I.R. collector id: 141. other id: NSL 112926. locality: Kutala, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524710 donor id: 142. origin: Sudan. local name: Digess. collected: 1977. collector: Denton, I.R. collector id: 142. other id: NSL 112927. locality: Dibeba, Kordofan Province. remarks: Used for food. Cultivated. Seed.
- PI 524711 donor id: 143. origin: Sudan. local name: Maraigi. collected: 1977. collector: Denton, I.R. collector id: 143. other id: NSL 112928. locality: Um Shigile, Kordofan Province. remarks: Used for food. Pests includes birds (severely) and locust. Cultivated. Seed.
- PI 524712 donor id: 144. origin: Sudan. local name: Najjad. collected: 1977. collector: Denton, I.R. collector id: 144. other id: NSL 112929. locality: Dilg El Tobe, Kordofan Province. remarks: Pests includes birds, locust and smut. Cultivated. Seed.
- PI 524713 donor id: 145. origin: Sudan. local name: Wadum Sidairi. collected: 1977. collector: Denton, I.R. collector id: 145. other id: NSL 112930. locality: Dilg El Tobe, Kordofan Province. remarks: Used for food. Pests include birds, locust and smut. Cultivated. Seed.
- PI 524714 donor id: 146. origin: Sudan. local name: Zinnary. collected: 1977. collector: Denton, I.R. collector id: 146. other id: NSL 112931. locality: Kordofan Province. remarks: Used for food. Pests include birds, locust and smut. Cultivated. Seed.
- PI 524715 donor id: 147. origin: Sudan. collected: 1977. collector: Denton, I.R. collector id: 147. other id: NSL 112932. locality: Um Rwaba, Kordofan Province. remarks: Used for food. Pests include birds, locust and smut. Cultivated. Seed.

PI 524569 to 524717-continued

PI 524716 donor id: 148. origin: Sudan. local name: Feterita.  
collected: 1977. collector: Denton, I.R. collector id:  
148. other id: NSL 112933. locality: Um Rwaba, Kordofan  
Province. remarks: Pests include birds, locust and smut.  
Cultivated. Seed.

PI 524717 donor id: 149. origin: Sudan. local name: Zinnary.  
collected: 1977. collector: Denton, I.R. collector id:  
149. other id: NSL 112934. locality: Hilat Zaide,  
Kordofan Province. remarks: Used for food/beer. Pests  
include birds, grasshoppers and stemborers. Cultivated.  
Seed.

PI 524718. *Sorghum arundinaceum* (Desv.) Stapf POACEAE

Donated by: Denton, I.R., IBPGR, Rome, Italy; and Mohomned, M.E.A.,  
El Obeid, Sudan; and El Fadul, A.H., El Obeid, Sudan. remarks:  
Received through IBPGR, Rome, Italy. Received September 1980.

donor id: 074. origin: Sudan. local name: Yabia.  
collected: 1977. collector: Denton, I.R. collector id:  
074. other id: NSL 112859. locality: El Kutun, Kordofan  
Province. Wild. Seed.

PI 524719 to 524951. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Arora, R.K., IBPGR, Rome, Italy; and Rao, A., ICRISAT,  
Patancheru P.O., Andhra Pradesh, India. remarks: Received through  
IBPGR, Rome, Italy. Received November 1980.

PI 524719 donor id: ZM 0001. origin: Zambia. collected: June 04,  
1980. collector id: ZM 0001. other id: NSL 113826.  
locality: Chilonga, enroute Lusaka to Petauke, Eastern  
Province. Cultivated. Seed.

PI 524720 donor id: ZM 0009. origin: Zambia. collected: June 04,  
1980. collector id: ZM 0009. other id: NSL 113827.  
locality: Market, Chavuta, enroute Lusaka - Petauke,  
Eastern Province. Cultivated. Seed.

PI 524721 donor id: ZM 0017. origin: Zambia. collected: June 04,  
1980. collector id: ZM 0017. other id: NSL 113828.  
locality: 130km E of Lusaka, Eastern Province. remarks:  
Seeds white. Cultivated. Seed.

PI 524722 donor id: ZM 0018. origin: Zambia. collected: June 04,  
1980. collector id: ZM 0018. other id: NSL 113829.  
locality: 130km E of Lusaka, Eastern Province. remarks:  
Seeds red. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524723 donor id: ZM 0020. origin: Zambia. collected: June 04, 1980. collector id: ZM 0020. other id: NSL 113830. locality: Njeloekasye, enroute Lusake - Petauke, Eastern Province. Cultivated. Seed.
- PI 524724 donor id: ZM 0021. origin: Zambia. collected: June 04, 1980. collector id: ZM 0021. other id: NSL 113831. locality: Njeloekasye, enroute Lusake - Petauke, Eastern Province. Cultivated. Seed.
- PI 524725 donor id: ZM 0030. origin: Zambia. collected: June 04, 1980. collector id: ZM 0030. other id: NSL 113832. locality: Bimbwe, enroute Lusaka - Petauke, Eastern Province. Cultivated. Seed.
- PI 524726 donor id: ZM 0031. origin: Zambia. local name: Kandondo. collected: June 04, 1980. collector id: ZM 0031. other id: NSL 113833. locality: Bimbwe, enroute Lusaka - Petauke, Eastern Province. Cultivated. Seed.
- PI 524727 donor id: ZM 0032. origin: Zambia. local name: Kandondo. collected: June 04, 1980. collector id: ZM 0032. other id: NSL 113834. locality: Bimbwe, enroute Lusaka - Petauke, Eastern Province. Cultivated. Seed.
- PI 524728 donor id: ZM 0033. origin: Zambia. local name: Misande. collected: June 04, 1980. collector id: ZM 0033. other id: NSL 113835. locality: Bimbwe, enroute Lusaka - Petauke, Eastern Province. Cultivated. Seed.
- PI 524729 donor id: ZM 0037. origin: Zambia. local name: Misabe. collected: June 04, 1980. collector id: ZM 0037. other id: NSL 113836. locality: Nyimba, enroute Lusaka - Petauke, Eastern Province. Cultivated. Seed.
- PI 524730 donor id: ZM 0038. origin: Zambia. collected: June 04, 1980. collector id: ZM 0038. other id: NSL 113837. locality: Nyimba, enroute Lusaka - Petauke, Eastern Province. remarks: Heads small, compact. Cultivated. Seed.
- PI 524731 donor id: ZM 0039. origin: Zambia. collected: June 04, 1980. collector id: ZM 0039. other id: NSL 113838. locality: Nyimba, enroute Lusaka - Petauke, Eastern Province. remarks: Seeds red. Cultivated. Seed.
- PI 524732 donor id: ZM 0040. origin: Zambia. collected: June 04, 1980. collector id: ZM 0040. other id: NSL 113839. locality: Nyimba, enroute Lusaka - Petauke, Eastern Province. remarks: Glumes black. Seeds red. Cultivated. Seed.



PI 524719 to 524951-continued

- PI 524733 donor id: ZM 0041. origin: Zambia. local name: Misale. collected: June 04, 1980. collector id: ZM 0041. other id: NSL 113840. locality: Nyimba, enroute Lusaka - Petauke, Eastern Province. remarks: Heads loose. Cultivated. Seed.
- PI 524734 donor id: ZM 0051. origin: Zambia. collected: June 05, 1980. collector id: ZM 0051. other id: NSL 113841. locality: Nimwanalumbe, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524735 donor id: ZM 0052. origin: Zambia. collected: June 05, 1980. collector id: ZM 0052. other id: NSL 113842. locality: Nimwanalumbe, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524736 donor id: ZM 0053. origin: Zambia. collected: June 05, 1980. collector id: ZM 0053. other id: NSL 113843. locality: Nimwanalumbe, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524737 donor id: ZM 0054. origin: Zambia. collected: June 05, 1980. collector id: ZM 0054. other id: NSL 113844. locality: Nimwanalumbe, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524738 donor id: ZM 0055. origin: Zambia. collected: June 05, 1980. collector id: ZM 0055. other id: NSL 113845. locality: Nimwanalumbe, near Petauke, Eastern Province. remarks: Seeds yellow. Cultivated. Seed.
- PI 524739 donor id: ZM 0056. origin: Zambia. collected: June 05, 1980. collector id: ZM 0056. other id: NSL 114195. locality: Nimwanalumbe, near Petauke, Eastern Province. remarks: Heads large, loose. Seeds red. Cultivated. Seed.
- PI 524740 donor id: ZM 0057. origin: Zambia. collected: June 05, 1980. collector id: ZM 0057. other id: NSL 113846. locality: Nimwanalumbe, near Petauke, Eastern Province. remarks: Heads small, compact. Seeds red. Cultivated. Seed.
- PI 524741 donor id: ZM 0059. origin: Zambia. local name: Misale. collected: June 05, 1980. collector id: ZM 0059. other id: NSL 113847. locality: Nimwanalumbe, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524742 donor id: ZM 0060. origin: Zambia. local name: Misale. collected: June 05, 1980. collector id: ZM 0060. other id: NSL 113848. locality: Nimwanalumbe, near Petauke, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524743 donor id: ZM 0062. origin: Zambia. collected: June 05, 1980. collector id: ZM 0062. other id: NSL 113849. locality: Kasuba, near Petauke, Eastern Province. remarks: Shattering. Wild. Seed.
- PI 524744 donor id: ZM 0063. origin: Zambia. collected: June 05, 1980. collector id: ZM 0063. other id: NSL 113850. locality: Kasuba, near Petauke, Eastern Province. remarks: Shattering. Wild. Seed.
- PI 524745 donor id: ZM 0070. origin: Zambia. local name: Misale. collected: June 05, 1980. collector id: ZM 0070. other id: NSL 113851. locality: Nyakolwe, near Petauke, Eastern Province. remarks: Shattering. Cultivated. Seed.
- PI 524746 donor id: ZM 0071. origin: Zambia. local name: Mapila. collected: June 05, 1980. collector id: ZM 0071. other id: NSL 113852. locality: Nyakolwe, near Petauke, Eastern Province. remarks: Heads large. Glumes black. Cultivated. Seed.
- PI 524747 donor id: ZM 0072. origin: Zambia. local name: Kanunkila. collected: June 05, 1980. collector id: ZM 0072. other id: NSL 113853. locality: Nyakolwe, near Petauke, Eastern Province. remarks: Heads thin, long. Seeds yellow. Cultivated. Seed.
- PI 524748 donor id: ZM 0073. origin: Zambia. local name: Mapila. collected: June 05, 1980. collector id: ZM 0073. other id: NSL 113854. locality: Nyakolwe, near Petauke, Eastern Province. remarks: Race guinea. Cultivated. Seed.
- PI 524749 donor id: ZM 0074. origin: Zambia. collected: June 05, 1980. collector id: ZM 0074. other id: NSL 113855. locality: Nyakolwe, near Petauke, Eastern Province. remarks: Heads large, loose. Cultivated. Seed.
- PI 524750 donor id: ZM 0079. origin: Zambia. local name: Chibowa. collected: June 05, 1980. collector id: ZM 0079. other id: NSL 113856. locality: Chingayipe, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524751 donor id: ZM 0080. origin: Zambia. local name: Yasakeyo. collected: June 05, 1980. collector id: ZM 0080. other id: NSL 113857. locality: Chingayipe, near Petauke, Eastern Province. remarks: Stalk sweet. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524752 donor id: ZM 0085. origin: Zambia. collected: June 05, 1980. collector id: ZM 0085. other id: NSL 113858. locality: Ilaki, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524753 donor id: ZM 0086. origin: Zambia. collected: June 05, 1980. collector id: ZM 0086. other id: NSL 113859. locality: Ilaki, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524754 donor id: ZM 0087. origin: Zambia. collected: June 05, 1980. collector id: ZM 0087. other id: NSL 113860. locality: Ilaki, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524755 donor id: ZM 0088. origin: Zambia. local name: Mulelemba. collected: June 05, 1980. collector id: ZM 0088. other id: NSL 113861. locality: Ilaki, near Petauke, Eastern Province. remarks: Heads large, loose. Cultivated. Seed.
- PI 524756 donor id: ZM 0091. origin: Zambia. collected: June 05, 1980. collector id: ZM 0091. other id: NSL 113862. locality: Maseya, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524757 donor id: ZM 0092. origin: Zambia. collected: June 05, 1980. collector id: ZM 0092. other id: NSL 113863. locality: Maseya, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524758 donor id: ZM 0093. origin: Zambia. collected: June 05, 1980. collector id: ZM 0093. other id: NSL 113864. locality: Maseya, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524759 donor id: ZM 0094. origin: Zambia. collected: June 05, 1980. collector id: ZM 0094. other id: NSL 113865. locality: Maseya, near Petauke, Eastern Province. Cultivated. Seed.
- PI 524760 donor id: ZM 0096. origin: Zambia. collected: June 05, 1980. collector id: ZM 0096. other id: NSL 113866. locality: Maseya, near Petauke, Eastern Province. Wild. Seed.
- PI 524761 donor id: ZM 0097. origin: Zambia. collected: June 05, 1980. collector id: ZM 0097. other id: NSL 113867. locality: Maseya, near Petauke, Eastern Province. remarks: Seeds black. Wild. Seed.

PI 524719 to 524951-continued

- PI 524762 donor id: ZM 0100. origin: Zambia. collected: June 05, 1980. collector id: ZM 0100. other id: NSL 113868. locality: Masaengo, near Petauke, Eastern Province. remarks: Vernalis uniform, small, pink. Cultivated. Seed.
- PI 524763 donor id: ZM 0101. origin: Zambia. collected: June 05, 1980. collector id: ZM 0101. other id: NSL 113869. locality: Masaengo, near Petauke, Eastern Province. remarks: Glumes black. Cultivated. Seed.
- PI 524764 donor id: ZM 0102. origin: Zambia. collected: June 05, 1980. collector id: ZM 0102. other id: NSL 113870. locality: Masaengo, near Petauke, Eastern Province. remarks: Race guinea. Cultivated. Seed.
- PI 524765 donor id: ZM 0120. origin: Zambia. collected: June 05, 1980. collector id: ZM 0120. other id: NSL 113871. locality: Baptist center, Kawere, enroute Petauke to Katete, Eastern Province. remarks: Shattercane. Wild. Seed.
- PI 524766 donor id: ZM 0124. origin: Zambia. local name: Misale. collected: June 06, 1980. collector id: ZM 0124. other id: NSL 113872. locality: Kalindawale, enroute Petauke to Katete, Eastern Province. Cultivated. Seed.
- PI 524767 donor id: ZM 0137. origin: Zambia. local name: Mampenga. collected: June 06, 1980. collector id: ZM 0137. other id: NSL 113873. locality: Kanctinto, enroute Petauke to Katete, Eastern Province. remarks: Seeds red. Cultivated. Seed.
- PI 524768 donor id: ZM 0138. origin: Zambia. local name: Zekiv. collected: June 06, 1980. collector id: ZM 0138. other id: NSL 113874. locality: Kanctinto, enroute Petauke to Katete, Eastern Province. remarks: Seeds pale. Cultivated. Seed.
- PI 524769 donor id: ZM 0139. origin: Zambia. local name: Chimbwakayila. collected: June 06, 1980. collector id: ZM 0139. other id: NSL 113875. locality: Kanctinto, enroute Petauke to Katete, Eastern Province. Cultivated. Seed.
- PI 524770 donor id: ZM 0140. origin: Zambia. local name: Yadawola. collected: June 06, 1980. collector id: ZM 0140. other id: NSL 113876. locality: Kanctinto, enroute Petauke to Katete, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524771 donor id: ZM 0149. origin: Zambia. local name: Mampenga. collected: June 07, 1980. collector id: ZM 0149. other id: NSL 113877. locality: Dickson Zulu farm, enroute Chadiza to Katete, Eastern Province. Cultivated. Seed.
- PI 524772 donor id: ZM 0150. origin: Zambia. local name: Kabango. collected: June 07, 1980. collector id: ZM 0150. other id: NSL 113878. locality: Dickson Zulu farm, enroute Chadiza to Katete, Eastern Province. remarks: Heads loose. Glumes black. Cultivated. Seed.
- PI 524773 donor id: ZM 0151. origin: Zambia. local name: Zekiv. collected: June 07, 1980. collector id: ZM 0151. other id: NSL 113879. locality: Dickson Zulu farm, enroute Chadiza to Katete, Eastern Province. Cultivated. Seed.
- PI 524774 donor id: ZM 0152. origin: Zambia. local name: Mampenga. collected: June 07, 1980. collector id: ZM 0152. other id: NSL 113880. locality: Dickson Zulu farm, enroute Chadiza to Katete, Eastern Province. Cultivated. Seed.
- PI 524775 donor id: ZM 0153. origin: Zambia. local name: Zekiv. collected: June 07, 1980. collector id: ZM 0153. other id: NSL 113881. locality: Dickson Zulu farm, enroute Chadiza to Katete, Eastern Province. Cultivated. Seed.
- PI 524776 donor id: ZM 0159. origin: Zambia. local name: Misale. collected: June 07, 1980. collector id: ZM 0159. other id: NSL 113882. locality: Kafumbwe, enroute Chadiza to Katete, Eastern Province. Cultivated. Seed.
- PI 524777 donor id: ZM 0160. origin: Zambia. local name: Misale. collected: June 07, 1980. collector id: ZM 0160. other id: NSL 113883. locality: Kafumbwe, enroute Chadiza to Katete, Eastern Province. remarks: Heads loose. Seeds brown. Cultivated. Seed.
- PI 524778 donor id: ZM 0237. origin: Zambia. collected: June 07, 1980. collector id: ZM 0237. other id: NSL 113884. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. Cultivated. Seed.
- PI 524779 donor id: ZM 0238. origin: Zambia. collected: June 07, 1980. collector id: ZM 0238. other id: NSL 113885. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Glumes black. Seeds white. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524780 donor id: ZM 0239. origin: Zambia. collected: June 07, 1980. collector id: ZM 0239. other id: NSL 113886. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Seeds small, white. Cultivated. Seed.
- PI 524781 donor id: ZM 0241. origin: Zambia. collected: June 07, 1980. collector id: ZM 0241. other id: NSL 113887. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Glumes black. Seeds white. Cultivated. Seed.
- PI 524782 donor id: ZM 0242. origin: Zambia. collected: June 07, 1980. collector id: ZM 0242. other id: NSL 113888. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Glumes red. Seeds corneous, white. Race guinea. Cultivated. Seed.
- PI 524783 donor id: ZM 0243. origin: Zambia. collected: June 07, 1980. collector id: ZM 0243. other id: NSL 113889. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Race bicolor. Cultivated. Seed.
- PI 524784 donor id: ZM 0245. origin: Zambia. collected: June 07, 1980. collector id: ZM 0245. other id: NSL 113890. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Glumes black. Race bicolor. Cultivated. Seed.
- PI 524785 donor id: ZM 0246. origin: Zambia. collected: June 07, 1980. collector id: ZM 0246. other id: NSL 113891. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Glumes black. Seeds white. Cultivated. Seed.
- PI 524786 donor id: ZM 0252. origin: Zambia. local name: Sinde, Misale. collected: June 07, 1980. collector id: ZM 0252. other id: NSL 113892. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. Cultivated. Seed.
- PI 524787 donor id: ZM 0253. origin: Zambia. local name: Kadyaligone. collected: June 07, 1980. collector id: ZM 0253. other id: NSL 113893. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Whole grain eaten. Cultivated. Seed.
- PI 524788 donor id: ZM 0254. origin: Zambia. collected: June 07, 1980. collector id: ZM 0254. other id: NSL 113894. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524789 donor id: ZM 0255. origin: Zambia. local name: Kamphumphu. collected: June 07, 1980. collector id: ZM 0255. other id: NSL 113895. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. Cultivated. Seed.
- PI 524790 donor id: ZM 0256. origin: Zambia. collected: June 07, 1980. collector id: ZM 0256. other id: NSL 113896. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. Cultivated. Seed.
- PI 524791 donor id: ZM 0260. origin: Zambia. collected: June 07, 1980. collector id: ZM 0260. other id: NSL 113897. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. Cultivated. Seed.
- PI 524792 donor id: ZM 0261. origin: Zambia. collected: June 07, 1980. collector id: ZM 0261. other id: NSL 113898. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Glumes compact, red. Seeds red. Cultivated. Seed.
- PI 524793 donor id: ZM 0262. origin: Zambia. collected: June 07, 1980. collector id: ZM 0262. other id: NSL 113899. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Heads loose. Seeds red. Cultivated. Seed.
- PI 524794 donor id: ZM 0263. origin: Zambia. collected: June 07, 1980. collector id: ZM 0263. other id: NSL 113900. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Glumes red. Seeds white. Cultivated. Seed.
- PI 524795 donor id: ZM 0264. origin: Zambia. collected: June 07, 1980. collector id: ZM 0264. other id: NSL 113901. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. Cultivated. Seed.
- PI 524796 donor id: ZM 0265. origin: Zambia. collected: June 07, 1980. collector id: ZM 0265. other id: NSL 113902. locality: Kanyebele, Chadiza Agricultural Show, Eastern Province. remarks: Heads loose. Seeds red. Cultivated. Seed.
- PI 524797 donor id: ZM 0270. origin: Zambia. collected: June 08, 1980. collector id: ZM 0270. other id: NSL 113903. locality: FTC, enroute Katete to Chipata, Eastern Province. remarks: Seeds red. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524798 donor id: ZM 0276. origin: Zambia. local name: Zekiv. collected: June 08, 1980. collector id: ZM 0276. other id: NSL 113904. locality: Bizaliyele, enroute Katete to Chipata, Eastern Province. Cultivated. Seed.
- PI 524799 donor id: ZM 0283. origin: Zambia. collected: June 08, 1980. collector id: ZM 0283. other id: NSL 113905. locality: Bizaliyele, enroute Katete to Chipata, Eastern Province. Cultivated. Seed.
- PI 524800 donor id: ZM 0284. origin: Zambia. collected: June 08, 1980. collector id: ZM 0284. other id: NSL 113906. locality: Bizaliyele, enroute Katete to Chipata, Eastern Province. Cultivated. Seed.
- PI 524801 donor id: ZM 0285. origin: Zambia. local name: Mapira. collected: June 08, 1980. collector id: ZM 0285. other id: NSL 113907. locality: Bizaliyele, enroute Katete to Chipata, Eastern Province. Cultivated. Seed.
- PI 524802 donor id: ZM 0286. origin: Zambia. local name: Musinde. collected: June 08, 1980. collector id: ZM 0286. other id: NSL 113908. locality: Bizaliyele, enroute Katete to Chipata, Eastern Province. Cultivated. Seed.
- PI 524803 donor id: ZM 0298. origin: Zambia. local name: Zekiv. collected: June 08, 1980. collector id: ZM 0298. other id: NSL 113909. locality: Mutenguleni, enroute Katete to Chipata, Eastern Province. remarks: Seeds red. Cultivated. Seed.
- PI 524804 donor id: ZM 0299. origin: Zambia. local name: Mwandankope. collected: June 08, 1980. collector id: ZM 0299. other id: NSL 113910. locality: Mutenguleni, enroute Katete to Chipata, Eastern Province. remarks: Seeds yellow. Cultivated. Seed.
- PI 524805 donor id: ZM 0300. origin: Zambia. local name: Chibowa. collected: June 08, 1980. collector id: ZM 0300. other id: NSL 113911. locality: Mutenguleni, enroute Katete to Chipata, Eastern Province. remarks: Race caudatum. Cultivated. Seed.
- PI 524806 donor id: ZM 0310. origin: Zambia. collected: June 08, 1980. collector id: ZM 0310. other id: NSL 113912. locality: Malokotla, enroute Katete to Chipata, Eastern Province. remarks: Seeds corneous, white. Cultivated. Seed.



PI 524719 to 524951-continued

- PI 524807 donor id: ZM 0311. origin: Zambia. collected: June 08, 1980. collector id: ZM 0311. other id: NSL 113913. locality: Malokotla, enroute Katete to Chipata, Eastern Province. remarks: Glumes black. Cultivated. Seed.
- PI 524808 donor id: ZM 0312. origin: Zambia. local name: Misale. collected: June 08, 1980. collector id: ZM 0312. other id: NSL 113914. locality: Malokotla, enroute Katete to Chipata, Eastern Province. Cultivated. Seed.
- PI 524809 donor id: ZM 0319. origin: Zambia. local name: Misale. collected: June 09, 1980. collector id: ZM 0319. other id: NSL 113915. locality: Kambamusitini, South Chipata, Eastern Province. Cultivated. Seed.
- PI 524810 donor id: ZM 0320. origin: Zambia. local name: Mphange. collected: June 09, 1980. collector id: ZM 0320. other id: NSL 113916. locality: Kambamusitini, South Chipata, Eastern Province. remarks: Glumes black. Seeds brown. Cultivated. Seed.
- PI 524811 donor id: ZM 0323. origin: Zambia. collected: June 09, 1980. collector id: ZM 0323. other id: NSL 113917. locality: Mase, South Chipata, Eastern Province. remarks: Shattering. Race bicolor. Wild. Seed.
- PI 524812 donor id: ZM 0325. origin: Zambia. local name: Kampyanga. collected: June 09, 1980. collector id: ZM 0325. other id: NSL 113918. locality: Mase, South Chipata, Eastern Province. Cultivated. Seed.
- PI 524813 donor id: ZM 0326. origin: Zambia. local name: Misalaya. collected: June 09, 1980. collector id: ZM 0326. other id: NSL 113919. locality: Mase, South Chipata, Eastern Province. Cultivated. Seed.
- PI 524814 donor id: ZM 0327. origin: Zambia. collected: June 09, 1980. collector id: ZM 0327. other id: NSL 113920. locality: Mase, South Chipata, Eastern Province. Cultivated. Seed.
- PI 524815 donor id: ZM 0328. origin: Zambia. collected: June 09, 1980. collector id: ZM 0328. other id: NSL 113921. locality: Mase, South Chipata, Eastern Province. Cultivated. Seed.
- PI 524816 donor id: ZM 0331. origin: Zambia. collected: June 09, 1980. collector id: ZM 0331. other id: NSL 113922. locality: Mase, South Chipata, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524817 donor id: ZM 0332. origin: Zambia. local name: Chibowa. collected: June 08, 1980. collector id: ZM 0332. other id: NSL 113923. locality: Mase, South Chipata, Eastern Province. Cultivated. Seed.
- PI 524818 donor id: ZM 0333. origin: Zambia. local name: Misale. collected: June 08, 1980. collector id: ZM 0333. other id: NSL 113924. locality: Mase, South Chipata, Eastern Province. Cultivated. Seed.
- PI 524819 donor id: ZM 0334. origin: Zambia. collected: June 08, 1980. collector id: ZM 0334. other id: NSL 113925. locality: Mase, South Chipata, Eastern Province. Cultivated. Seed.
- PI 524820 donor id: ZM 0346. origin: Zambia. collected: June 08, 1980. collector id: ZM 0346. other id: NSL 113926. locality: Ngeleni, South Chipata, Eastern Province. remarks: Shattering. Wild. Seed.
- PI 524821 donor id: ZM 0356. origin: Zambia. local name: Chibakwene. collected: June 10, 1980. collector id: ZM 0356. other id: NSL 113927. locality: Kamoto, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524822 donor id: ZM 0357. origin: Zambia. collected: June 10, 1980. collector id: ZM 0357. other id: NSL 113928. locality: Kamoto, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524823 donor id: ZM 0358. origin: Zambia. collected: June 10, 1980. collector id: ZM 0358. other id: NSL 113929. locality: Kamoto, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524824 donor id: ZM 0359. origin: Zambia. collected: June 10, 1980. collector id: ZM 0359. other id: NSL 113930. locality: Mosamba, enroute Chipata to Mfuwe, Eastern Province. remarks: Twin seeded. Cultivated. Seed.
- PI 524825 donor id: ZM 0360. origin: Zambia. collected: June 10, 1980. collector id: ZM 0360. other id: NSL 113931. locality: Mosamba, enroute Chipata to Mfuwe, Eastern Province. remarks: Glumes black. Cultivated. Seed.
- PI 524826 donor id: ZM 0361. origin: Zambia. collected: June 10, 1980. collector id: ZM 0361. other id: NSL 113932. locality: Mosamba, enroute Chipata to Mfuwe, Eastern Province. remarks: Seeds white, bold. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524827 donor id: ZM 0362. origin: Zambia. local name: Mphande. collected: June 10, 1980. collector id: ZM 0362. other id: NSL 113933. locality: Mosamba, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524828 donor id: ZM 0363. origin: Zambia. collected: June 10, 1980. collector id: ZM 0363. other id: NSL 113934. locality: Mosamba, enroute Chipata to Mfuwe, Eastern Province. remarks: Seeds white. Cultivated. Seed.
- PI 524829 donor id: ZM 0364. origin: Zambia. collected: June 10, 1980. collector id: ZM 0364. other id: NSL 113935. locality: Mosamba, enroute Chipata to Mfuwe, Eastern Province. remarks: Heads compact, stout. Seeds corneous, white. Cultivated. Seed.
- PI 524830 donor id: ZM 0365. origin: Zambia. collected: June 10, 1980. collector id: ZM 0365. other id: NSL 113936. locality: Mosamba, enroute Chipata to Mfuwe, Eastern Province. remarks: Heads loose. Cultivated. Seed.
- PI 524831 donor id: ZM 0373. origin: Zambia. local name: Chibakweni. collected: June 10, 1980. collector id: ZM 0373. other id: NSL 113937. locality: Mosamba Research Station, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524832 donor id: ZM 0374. origin: Zambia. collected: June 10, 1980. collector id: ZM 0374. other id: NSL 113938. locality: Mosamba Research Station, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524833 donor id: ZM 0375. origin: Zambia. collected: June 10, 1980. collector id: ZM 0375. other id: NSL 113939. locality: Mosamba Research Station, enroute Chipata to Mfuwe, Eastern Province. remarks: Mixture of all types. Cultivated. Seed.
- PI 524834 donor id: ZM 0381. origin: Zambia. collected: June 10, 1980. collector id: ZM 0381. other id: NSL 113940. locality: Malama, enroute Chipata to Mfuwa, Eastern Province. Cultivated. Seed.
- PI 524835 donor id: ZM 0382. origin: Zambia. local name: Misale. collected: June 10, 1980. collector id: ZM 0382. other id: NSL 113941. locality: Malama, enroute Chipata to Mfuwa, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524836 donor id: ZM 0383. origin: Zambia. collected: June 10, 1980. collector id: ZM 0383. other id: NSL 113942. locality: Malama, enroute Chipata to Mfuwa, Eastern Province. remarks: Heads long, loose. Glumes red. Seeds white. Cultivated. Seed.
- PI 524837 donor id: ZM 0384. origin: Zambia. collected: June 10, 1980. collector id: ZM 0384. other id: NSL 113943. locality: Malama, enroute Chipata to Mfuwa, Eastern Province. Cultivated. Seed.
- PI 524838 donor id: ZM 0385. origin: Zambia. collected: June 10, 1980. collector id: ZM 0385. other id: NSL 113944. locality: Malama, enroute Chipata to Mfuwa, Eastern Province. remarks: Glumes black. Panicle very loose. Cultivated. Seed.
- PI 524839 donor id: ZM 0386. origin: Zambia. collected: June 10, 1980. collector id: ZM 0386. other id: NSL 113945. locality: Malama, enroute Chipata to Mfuwa, Eastern Province. Cultivated. Seed.
- PI 524840 donor id: ZM 0388. origin: Zambia. collected: June 10, 1980. collector id: ZM 0388. other id: NSL 113946. locality: Malama, enroute Chipata to Mfuwa, Eastern Province. Cultivated. Seed.
- PI 524841 donor id: ZM 0394. origin: Zambia. collected: June 10, 1980. collector id: ZM 0394. other id: NSL 113947. locality: Eneya village, Kafumbe area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524842 donor id: ZM 0395. origin: Zambia. local name: Bikiloni. collected: June 10, 1980. collector id: ZM 0395. other id: NSL 113948. locality: Munkanya area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524843 donor id: ZM 0396. origin: Zambia. local name: Zekiv. collected: June 10, 1980. collector id: ZM 0396. other id: NSL 113949. locality: Munkanya area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524844 donor id: ZM 0397. origin: Zambia. local name: Mphange. collected: June 10, 1980. collector id: ZM 0397. other id: NSL 113950. locality: Munkanya area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524845 donor id: ZM 0398. origin: Zambia. local name: Nachizyanda. collected: June 10, 1980. collector id: ZM 0398. other id: NSL 113951. locality: Munkanya area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524846 donor id: ZM 0405. origin: Zambia. local name: Chimatale. collected: June 10, 1980. collector id: ZM 0405. other id: NSL 113952. locality: Munkanya area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524847 donor id: ZM 0406. origin: Zambia. collected: June 10, 1980. collector id: ZM 0406. other id: NSL 113953. locality: Munkanya area, enroute Chipata to Mfuwe, Eastern Province. remarks: Glumes black. Seeds black. Cultivated. Seed.
- PI 524848 donor id: ZM 0407. origin: Zambia. collected: June 10, 1980. collector id: ZM 0407. other id: NSL 113954. locality: Munkanya area, enroute Chipata to Mfuwe, Eastern Province. remarks: Glumes yellow. Seeds yellow. Cultivated. Seed.
- PI 524849 donor id: ZM 0408. origin: Zambia. collected: June 10, 1980. collector id: ZM 0408. other id: NSL 113955. locality: Munkanya area, enroute Chipata to Mfuwe, Eastern Province. remarks: Glumes black. Seeds black. Cultivated. Seed.
- PI 524850 donor id: ZM 0412. origin: Zambia. collected: June 10, 1980. collector id: ZM 0412. other id: NSL 113956. locality: Sitima, Jumbe area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524851 donor id: ZM 0413. origin: Zambia. collected: June 10, 1980. collector id: ZM 0413. other id: NSL 113957. locality: Sitima, Jumbe area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524852 donor id: ZM 0414. origin: Zambia. local name: Kadyalikone. collected: June 10, 1980. collector id: ZM 0414. other id: NSL 113958. locality: Sitima, Jumbe area, enroute Chipata to Mfuwe, Eastern Province. remarks: Race guinea. Cultivated. Seed.
- PI 524853 donor id: ZM 0415. origin: Zambia. collected: June 10, 1980. collector id: ZM 0415. other id: NSL 113959. locality: Sitima, Jumbe area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524854 donor id: ZM 0416. origin: Zambia. local name: Zekiv. collected: June 10, 1980. collector id: ZM 0416. other id: NSL 113960. locality: Sitima, Jumbe area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524855 donor id: ZM 0419. origin: Zambia. local name: Chibakweni. collected: June 10, 1980. collector id: ZM 0419. other id: NSL 113961. locality: Sitima, Jumbe area, enroute Chipata to Mfuwe, Eastern Province. Cultivated. Seed.
- PI 524856 donor id: ZM 0427. origin: Zambia. collected: June 11, 1980. collector id: ZM 0427. other id: NSL 113962. locality: Msekera Reg. Res. Station, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524857 donor id: ZM 0428. origin: Zambia. collected: June 11, 1980. collector id: ZM 0428. other id: NSL 113963. locality: Msekera Reg. Res. Station, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524858 donor id: ZM 0429. origin: Zambia. collected: June 11, 1980. collector id: ZM 0429. other id: NSL 113964. locality: Msekera Reg. Res. Station, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524859 donor id: ZM 0430. origin: Zambia. collected: June 11, 1980. collector id: ZM 0430. other id: NSL 113965. locality: Msekera Reg. Res. Station, enroute Chipata to Lundazi, Eastern Province. remarks: Glumes red. Seeds white. Cultivated. Seed.
- PI 524860 donor id: ZM 0431. origin: Zambia. collected: June 11, 1980. collector id: ZM 0431. other id: NSL 113966. locality: Msekera Reg. Res. Station, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524861 donor id: ZM 0432. origin: Zambia. collected: June 11, 1980. collector id: ZM 0432. other id: NSL 113967. locality: Msekera Reg. Res. Station, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524862 donor id: ZM 0433. origin: Zambia. collected: June 11, 1980. collector id: ZM 0433. other id: NSL 113968. locality: Msekera Reg. Res. Station, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524863 donor id: ZM 0444. origin: Zambia. local name: Misale. collected: June 11, 1980. collector id: ZM 0444. other id: NSL 113969. locality: Ndalala, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524864 donor id: ZM 0454. origin: Zambia. local name: Njiho. collected: June 11, 1980. collector id: ZM 0454. other id: NSL 113970. locality: Mwamba, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524865 donor id: ZM 0468. origin: Zambia. local name: Magoogu. collected: June 11, 1980. collector id: ZM 0468. other id: NSL 113971. locality: Pelebere Farm, enroute to Lundazi, Eastern Province. remarks: Shattercane. Cultivated. Seed.
- PI 524866 donor id: ZM 0471. origin: Zambia. local name: Njiho. collected: June 11, 1980. collector id: ZM 0471. other id: NSL 113972. locality: Pelebere Farm, enroute to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524867 donor id: ZM 0479. origin: Zambia. collected: June 11, 1980. collector id: ZM 0479. other id: NSL 113973. locality: Kamphandila, Kapikila area, enroute Chipata to Lundazi, Eastern Province. remarks: Shattering. Race bicolor. Cultivated. Seed.
- PI 524868 donor id: ZM 0481. origin: Zambia. collected: June 11, 1980. collector id: ZM 0481. other id: NSL 113974. locality: Kamphandila, Kapikila area, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524869 donor id: ZM 0483. origin: Zambia. local name: Googu. collected: June 11, 1980. collector id: ZM 0483. other id: NSL 113975. locality: Holornolo, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524870 donor id: ZM 0485. origin: Zambia. collected: June 11, 1980. collector id: ZM 0485. other id: NSL 113976. locality: Holornolo, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524871 donor id: ZM 0487. origin: Zambia. local name: Kafumbata. collected: June 11, 1980. collector id: ZM 0487. other id: NSL 113977. locality: Holornolo, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524872 donor id: ZM 0489. origin: Zambia. local name: Misale. collected: June 11, 1980. collector id: ZM 0489. other id: NSL 113978. locality: Holornolo, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524873 donor id: ZM 0501. origin: Zambia. collected: June 11, 1980. collector id: ZM 0501. other id: NSL 113979. locality: Chizindile, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524874 donor id: ZM 0513. origin: Zambia. local name: Njiho. collected: June 11, 1980. collector id: ZM 0513. other id: NSL 113980. locality: Chilipandhambo, enroute Chipata to Lundazi, Eastern Province. Cultivated. Seed.
- PI 524875 donor id: ZM 0515. origin: Zambia. collected: June 11, 1980. collector id: ZM 0515. other id: NSL 113981. locality: Chilipandhambo, enroute Chipata to Lundazi, Eastern Province. Wild. Seed.
- PI 524876 donor id: ZM 0523. origin: Zambia. collected: June 13, 1980. collector id: ZM 0523. other id: NSL 113982. locality: Lundazi, Kazembe Valley, Lundazi District, Eastern Province. Cultivated. Seed.
- PI 524877 donor id: ZM 0529. origin: Zambia. local name: Kanchawere sanga. collected: June 13, 1980. collector id: ZM 0529. other id: NSL 113983. locality: Kajoloti, Kazembe Valley, Lundazi District, Eastern Province. Cultivated. Seed.
- PI 524878 donor id: ZM 0531. origin: Zambia. local name: Zunda. collected: June 13, 1980. collector id: ZM 0531. other id: NSL 113984. locality: Kajoloti, Kazembe Valley, Lundazi District, Eastern Province. Cultivated. Seed.
- PI 524879 donor id: ZM 0537. origin: Zambia. local name: Nyasarande. collected: June 13, 1980. collector id: ZM 0537. other id: NSL 113985. locality: Kachinkhula, Kazembe Valley, Lundazi District, Eastern Province. Cultivated. Seed.
- PI 524880 donor id: ZM 0538. origin: Zambia. collected: June 13, 1980. collector id: ZM 0538. other id: NSL 113986. locality: Kachinkhula, Kazembe Valley, Lundazi District, Eastern Province. remarks: Panicles loose. Seeds white. Cultivated. Seed.
- PI 524881 donor id: ZM 0555. origin: Zambia. collected: June 14, 1980. collector id: ZM 0555. other id: NSL 113987. locality: Longwani, enroute Lundazi to Chama, Eastern Province. Cultivated. Seed.
- PI 524882 donor id: ZM 0561. origin: Zambia. local name: Njiho. collected: June 14, 1980. collector id: ZM 0561. other id: NSL 113988. locality: Longwani, enroute Lundazi to Chama, Eastern Province. Cultivated. Seed.
- PI 524883 donor id: ZM 0576. origin: Zambia. collected: June 14, 1980. collector id: ZM 0576. other id: NSL 113989. locality: Longwani, enroute Lundazi to Chama, Eastern Province. Cultivated. Seed.



PI 524719 to 524951-continued

- PI 524884 donor id: ZM 0578. origin: Zambia. collected: June 14, 1980. collector id: ZM 0578. other id: NSL 113990. locality: Mande Hill, enroute Lundazi to Chama, Eastern Province. Cultivated. Seed.
- PI 524885 donor id: ZM 0583. origin: Zambia. collected: June 15, 1980. collector id: ZM 0583. other id: NSL 113991. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. Cultivated. Seed.
- PI 524886 donor id: ZM 0593. origin: Zambia. local name: Kanchavere. collected: June 15, 1980. collector id: ZM 0593. other id: NSL 113992. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. Cultivated. Seed.
- PI 524887 donor id: ZM 0594. origin: Zambia. local name: Chiknoni. collected: June 15, 1980. collector id: ZM 0594. other id: NSL 113993. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. Cultivated. Seed.
- PI 524888 donor id: ZM 0595. origin: Zambia. collected: June 15, 1980. collector id: ZM 0595. other id: NSL 113994. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. remarks: Heads small. Seeds red. Cultivated. Seed.
- PI 524889 donor id: ZM 0596. origin: Zambia. collected: June 15, 1980. collector id: ZM 0596. other id: NSL 113995. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. remarks: Heads compact. Seeds dark red. Cultivated. Seed.
- PI 524890 donor id: ZM 0597. origin: Zambia. collected: June 15, 1980. collector id: ZM 0597. other id: NSL 113996. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. remarks: Heads long. Glumes red. Cultivated. Seed.
- PI 524891 donor id: ZM 0609. origin: Zambia. local name: Kamutahali. collected: June 15, 1980. collector id: ZM 0609. other id: NSL 113997. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. remarks: Stalk sweet. Cultivated. Seed.
- PI 524892 donor id: ZM 0610. origin: Zambia. local name: Kamchuroti. collected: June 15, 1980. collector id: ZM 0610. other id: NSL 113998. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524893 donor id: ZM 0611. origin: Zambia. local name: Kanchewere sanjhe. collected: June 15, 1980. collector id: ZM 0611. other id: NSL 113999. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. Cultivated. Seed.
- PI 524894 donor id: ZM 0618. origin: Zambia. local name: Kanchawere. collected: June 15, 1980. collector id: ZM 0618. other id: NSL 114000. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. Cultivated. Seed.
- PI 524895 donor id: ZM 0619. origin: Zambia. local name: Kanchawere Matuwa. collected: June 15, 1980. collector id: ZM 0619. other id: NSL 114001. locality: Katangarilla Rice Scheme, Chama and Katangarilla area, Eastern Province. remarks: Seeds white. Cultivated. Seed.
- PI 524896 donor id: ZM 0637. origin: Zambia. collected: June 15, 1980. collector id: ZM 0637. other id: NSL 114002. locality: Kandaveera, enroute Chama to Isoka, Isoka District, Northern Province. remarks: Seeds wrinkled. Cultivated. Seed.
- PI 524897 donor id: ZM 0650. origin: Zambia. local name: Mapemba. collected: June 16, 1980. collector id: ZM 0650. other id: NSL 114003. locality: Tendere, enroute Chama to Isoka, Isoka District, Northern Province. Cultivated. Seed.
- PI 524898 donor id: ZM 0659. origin: Zambia. local name: Mantila. collected: June 17, 1980. collector id: ZM 0659. other id: NSL 114004. locality: Katonga, Katonga - Chikoti - Katenshya area, Isoka District, Northern Province. Cultivated. Seed.
- PI 524899 donor id: ZM 0663. origin: Zambia. local name: Nkumba. collected: June 17, 1980. collector id: ZM 0663. other id: NSL 114005. locality: Katonga, Katonga - Chikoti - Katenshya area, Isoka District, Northern Province. Cultivated. Seed.
- PI 524900 donor id: ZM 0671. origin: Zambia. local name: Kanchawere. collected: June 17, 1980. collector id: ZM 0671. other id: NSL 114006. locality: Katenshya school, Katonga - Chikoti - Katenshya area, Isoka District, Northern Province. remarks: Seeds red. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524901 donor id: ZM 0672. origin: Zambia. collected: June 17, 1980. collector id: ZM 0672. other id: NSL 114007. locality: Katenshya school, Katonga - Chikoti - Katenshya area, Isoka District, Northern Province. remarks: Seeds white. Cultivated. Seed.
- PI 524902 donor id: ZM 0694. origin: Zambia. collected: June 17, 1980. collector id: ZM 0694. other id: NSL 114008. locality: Nansala village, Katonga - Chikoti - Katenshya area, Isoka District, Northern Province. remarks: Heads large, loose. Seeds white. Cultivated. Seed.
- PI 524903 donor id: ZM 0695. origin: Zambia. local name: Sonkwe. collected: June 17, 1980. collector id: ZM 0695. other id: NSL 114009. locality: Nansala village, Katonga - Chikoti - Katenshya area, Isoka District, Northern Province. Cultivated. Seed.
- PI 524904 donor id: ZM 0696. origin: Zambia. local name: Kamunde. collected: June 17, 1980. collector id: ZM 0696. other id: NSL 114010. locality: Nansala village, Katonga - Chikoti - Katenshya area, Isoka District, Northern Province. remarks: Stalk sweet. Cultivated. Seed.
- PI 524905 donor id: ZM 0700. origin: Zambia. local name: Mukumba. collected: June 17, 1980. collector id: ZM 0700. other id: NSL 114011. locality: Nansala village, Katonga - Chikoti - Katenshya area, Isoka District, Northern Province. remarks: Half broomcorn. Cultivated. Seed.
- PI 524906 donor id: ZM 0701. origin: Zambia. local name: Mapemba. collected: June 17, 1980. collector id: ZM 0701. other id: NSL 114012. locality: Nansala village, Katonga - Chikoti - Katenshya area, Isoka District, Northern Province. Cultivated. Seed.
- PI 524907 donor id: ZM 0722. origin: Zambia. collected: June 18, 1980. collector id: ZM 0722. other id: NSL 114013. locality: Chipunga, enroute Isoka to Chinsali, Northern Province. Cultivated. Seed.
- PI 524908 donor id: ZM 0728. origin: Zambia. collected: June 18, 1980. collector id: ZM 0728. other id: NSL 114014. locality: Kapimpa, enroute Isoka to Chinsali, Northern Province. Cultivated. Seed.
- PI 524909 donor id: ZM 0729. origin: Zambia. collected: June 18, 1980. collector id: ZM 0729. other id: NSL 114015. locality: Kapimpa, enroute Isoka to Chinsali, Northern Province. remarks: Twin seeded. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524910 donor id: ZM 0747. origin: Zambia. collected: June 19, 1980. collector id: ZM 0747. other id: NSL 114016. locality: Kavama, enroute Chansali to Kasama, Northern Province. Cultivated. Seed.
- PI 524911 donor id: ZM 0754. origin: Zambia. collected: June 19, 1980. collector id: ZM 0754. other id: NSL 114017. locality: Kavama, enroute Chansali to Kasama, Northern Province. remarks: Seeds red. Cultivated. Seed.
- PI 524912 donor id: ZM 0761. origin: Zambia. collected: June 19, 1980. collector id: ZM 0761. other id: NSL 114018. locality: Kawangwe, enroute Chansali to Kasama, Northern Province. Cultivated. Seed.
- PI 524913 donor id: ZM 0767. origin: Zambia. collected: June 19, 1980. collector id: ZM 0767. other id: NSL 114019. locality: Kawangwe, enroute Chansali to Kasama, Northern Province. Cultivated. Seed.
- PI 524914 donor id: ZM 0789. origin: Zambia. local name: Sonkwe. collected: June 20, 1980. collector id: ZM 0789. other id: NSL 114020. locality: Misamfu Research Station, Kasama, Northern Province. Cultivated. Seed.
- PI 524915 donor id: ZM 0790. origin: Zambia. local name: Masaka. collected: June 20, 1980. collector id: ZM 0790. other id: NSL 114021. locality: Misamfu Research Station, Kasama, Northern Province. Cultivated. Seed.
- PI 524916 donor id: ZM 0791. origin: Zambia. collected: June 20, 1980. collector id: ZM 0791. other id: NSL 114022. locality: Mungwi, Kasama east, Northern Province. Cultivated. Seed.
- PI 524917 donor id: ZM 0810. origin: Zambia. local name: Masaka. collected: June 20, 1980. collector id: ZM 0810. other id: NSL 114023. locality: Mukukafum, Kasama east, Northern Province. Cultivated. Seed.
- PI 524918 donor id: ZM 0813. origin: Zambia. local name: Sonkwe. collected: June 20, 1980. collector id: ZM 0813. other id: NSL 114024. locality: Muchaka, Kasama east, Northern Province. Cultivated. Seed.
- PI 524919 donor id: ZM 0814. origin: Zambia. local name: Masaka. collected: June 20, 1980. collector id: ZM 0814. other id: NSL 114025. locality: Muchaka, Kasama east, Northern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524920 donor id: ZM 0816. origin: Zambia. local name: Masaka. collected: June 20, 1980. collector id: ZM 0816. other id: NSL 114026. locality: Kabula, Kasama east, Northern Province. Cultivated. Seed.
- PI 524921 donor id: ZM 0821. origin: Zambia. local name: Masaka. collected: June 20, 1980. collector id: ZM 0821. other id: NSL 114027. locality: Kabula, Kasama east, Northern Province. Cultivated. Seed.
- PI 524922 donor id: ZM 0822. origin: Zambia. local name: Sonkwe. collected: June 20, 1980. collector id: ZM 0822. other id: NSL 114028. locality: Kabula, Kasama east, Northern Province. Cultivated. Seed.
- PI 524923 donor id: ZM 0834. origin: Zambia. local name: Masaka. collected: June 21, 1980. collector id: ZM 0834. other id: NSL 114029. locality: Kasama market, Kasama west, Northern Province. Cultivated. Seed.
- PI 524924 donor id: ZM 0836. origin: Zambia. collected: June 21, 1980. collector id: ZM 0836. other id: NSL 114030. locality: Kasama market, Kasama west, Northern Province. Cultivated. Seed.
- PI 524925 donor id: ZM 0838. origin: Zambia. local name: Sonkwe. collected: June 21, 1980. collector id: ZM 0838. other id: NSL 114031. locality: Kasama market, Kasama west, Northern Province. Cultivated. Seed.
- PI 524926 donor id: ZM 0840. origin: Zambia. local name: Masaka. collected: June 21, 1980. collector id: ZM 0840. other id: NSL 114032. locality: Kasama market, Kasama west, Northern Province. Cultivated. Seed.
- PI 524927 donor id: ZM 0846. origin: Zambia. local name: Masaka. collected: June 21, 1980. collector id: ZM 0846. other id: NSL 114033. locality: Kasama market, Kasama west, Northern Province. Cultivated. Seed.
- PI 524928 donor id: ZM 0865. origin: Zambia. local name: Sonkwe. collected: June 21, 1980. collector id: ZM 0865. other id: NSL 114034. locality: Mwamba, Kasama west, Northern Province. Cultivated. Seed.
- PI 524929 donor id: ZM 0867. origin: Zambia. local name: Sonkwe. collected: June 21, 1980. collector id: ZM 0867. other id: NSL 114035. locality: Nyola, Kasama west, Northern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524930 donor id: ZM 0868. origin: Zambia. local name: Misale. collected: June 21, 1980. collector id: ZM 0868. other id: NSL 114036. locality: Nyola, Kasama west, Northern Province. Cultivated. Seed.
- PI 524931 donor id: ZM 0882. origin: Zambia. collected: June 22, 1980. collector id: ZM 0882. other id: NSL 114037. locality: Mbala market, enroute Kasama to Mbala, Northern Province. Cultivated. Seed.
- PI 524932 donor id: ZM 0885. origin: Zambia. local name: Myanga. collected: June 22, 1980. collector id: ZM 0885. other id: NSL 114038. locality: Kawimbe Agricultural Camp, enroute Kasama to Mbala, Northern Province. Cultivated. Seed.
- PI 524933 donor id: ZM 0897. origin: Zambia. local name: Nkona. collected: June 22, 1980. collector id: ZM 0897. other id: NSL 114039. locality: Mambwe, enroute Kasama to Mbala, Northern Province. Cultivated. Seed.
- PI 524934 donor id: ZM 0900. origin: Zambia. collected: June 22, 1980. collector id: ZM 0900. other id: NSL 114040. locality: Mambwe, enroute Kasama to Mbala, Northern Province. Cultivated. Seed.
- PI 524935 donor id: ZM 0907. origin: Zambia. collected: June 23, 1980. collector id: ZM 0907. other id: NSL 114041. locality: Mphulumbe, enroute Mbala to Mpika, Northern Province. Cultivated. Seed.
- PI 524936 donor id: ZM 0908. origin: Zambia. local name: Masaka. collected: June 23, 1980. collector id: ZM 0908. other id: NSL 114042. locality: Mphulumbe, enroute Mbala to Mpika, Northern Province. Cultivated. Seed.
- PI 524937 donor id: ZM 0912. origin: Zambia. collected: June 23, 1980. collector id: ZM 0912. other id: NSL 114043. locality: Mphulumbe, enroute Mbala to Mpika, Northern Province. Cultivated. Seed.
- PI 524938 donor id: ZM 0929. origin: Zambia. local name: Masaka. collected: June 24, 1980. collector id: ZM 0929. other id: NSL 114044. locality: Kapoko farm, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. Cultivated. Seed.
- PI 524939 donor id: ZM 0930. origin: Zambia. local name: Masaka. collected: June 24, 1980. collector id: ZM 0930. other id: NSL 114045. locality: Kapoko farm, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. remarks: Race guinea. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524940 donor id: ZM 0935. origin: Zambia. local name: Masaka. collected: June 24, 1980. collector id: ZM 0935. other id: NSL 114046. locality: Malashi, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. Cultivated. Seed.
- PI 524941 donor id: ZM 0940. origin: Zambia. local name: Masaka. collected: June 24, 1980. collector id: ZM 0940. other id: NSL 114047. locality: Chimponia, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. Cultivated. Seed.
- PI 524942 donor id: ZM 0941. origin: Zambia. collected: June 24, 1980. collector id: ZM 0941. other id: NSL 114048. locality: Chimponia, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. Cultivated. Seed.
- PI 524943 donor id: ZM 0950. origin: Zambia. collected: June 24, 1980. collector id: ZM 0950. other id: NSL 114049. locality: Chimponia, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. Cultivated. Seed.
- PI 524944 donor id: ZM 0955. origin: Zambia. collected: June 24, 1980. collector id: ZM 0955. other id: NSL 114050. locality: Chimponia, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. Cultivated. Seed.
- PI 524945 donor id: ZM 0966. origin: Zambia. collected: June 24, 1980. collector id: ZM 0966. other id: NSL 114051. locality: Madisava, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. Cultivated. Seed.
- PI 524946 donor id: ZM 0967. origin: Zambia. collected: June 24, 1980. collector id: ZM 0967. other id: NSL 114052. locality: Madisava, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. Cultivated. Seed.
- PI 524947 donor id: ZM 0968. origin: Zambia. collected: June 24, 1980. collector id: ZM 0968. other id: NSL 114053. locality: Madisava, near Mpika, Chalwe, and Katibunga area, Mpika District, Northern Province. Cultivated. Seed.

PI 524719 to 524951-continued

- PI 524948 donor id: ZM 0993. origin: Zambia. local name: Namisankele. collected: June 25, 1980. collector id: ZM 0993. other id: NSL 114054. locality: Kalata, enroute Mpika to Kapiri Mposhi, Central Province. Cultivated. Seed.
- PI 524949 donor id: ZM 0994. origin: Zambia. local name: Masaka. collected: June 25, 1980. collector id: ZM 0994. other id: NSL 114055. locality: Kalata, enroute Mpika to Kapiri Mposhi, Central Province. Cultivated. Seed.
- PI 524950 donor id: ZM 0999. origin: Zambia. collected: June 26, 1980. collector id: ZM 0999. other id: NSL 114056. locality: Kapiri Mposhi market, enroute Kapiri Mposhi to Lusaka, Central Province. Cultivated. Seed.
- PI 524951 donor id: ZM 1010. origin: Zambia. collected: June 26, 1980. collector id: ZM 1010. other id: NSL 114057. locality: Kabwe market, enroute Kapiri Mposhi to Lusaka, Central Province. remarks: Seeds red. Cultivated. Seed.

PI 524952 to 524956. *Aegilops* sp. POACEAE

Donated by: Guarino, L., IBPGR, Rome, Italy; and Avricht, G.C., IBPGR, Rome, Italy; and Jones, G.S., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received July 30, 1987.

- PI 524952 donor id: 3037. origin: Italy. collected: June 12, 1986. collector: L. Guarino, G.C. Auricht, G.S. Jones. locality: Road to Sciacca, 1-2km N of main road, 10km W of Caltabellota. latitude: 37 deg. 34 min. N. longitude: 13 deg. 08 min. E. elevation: 700m. received as: *A. ovata*. Wild. Seed.
- PI 524953 donor id: 3531. origin: Italy. collected: July 04, 1986. collector: L. Guarino, G.C. Auricht, G.S. Jones. locality: Silty loam, along stone-paved track, left of main road, Canale, Filicudi. latitude: 38 deg. 33 min. N. longitude: 14 deg. 35 min. E. elevation: 120m. remarks: Soil pH 6.5. received as: *A. ovata*. Wild. Seed.
- PI 524954 donor id: 3659. origin: Italy. collected: July 12, 1986. collector: L. Guarino, G.C. Auricht, G.S. Jones. locality: Rocky, clay soil, 6km S of Novara, on SS185, Novara. latitude: 37 deg. 59 min. N. longitude: 15 deg. 08 min. E. elevation: 935m. received as: *A. ovata*. Wild. Seed.



PI 524952 to 524956-continued

- PI 524955 donor id: 3726. origin: Italy. collected: July 14, 1986. collector: L. Guarino, G.C. Auricht, G.S. Jones. locality: Clay loam, 1.5km S of Basico on road towards Montalbano, Basico. elevation: 620m. received as: A. ovata. Wild. Seed.
- PI 524956 donor id: 3949. origin: Italy. collected: July 18, 1986. collector: L. Guarino, G.C. Auricht, G.S. Jones. locality: Silty loam, 10km N of Polizzi Generosa, from SS286, 1 km S of turnoff to Petralia, Polizzi Generosa. latitude: 37 deg. 52 min. N. longitude: 14 deg. 01 min. E. elevation: 1430m. received as: A. ovata. Wild. Seed.

PI 524957. *Aegilops triuncialis* L. POACEAE Barb goatgrass

Donated by: Guarino, L., IBPGR, Rome, Italy; and Avricht, G.C., IBPGR, Rome, Italy; and Jones, G.S., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received July 30, 1987.

donor id: 3602. origin: Italy. collected: July 09, 1986. collector: L. Guarino, G.C. Auricht, G.S. Jones. locality: Silty loam, off track beginning at end of road through Lingua, Lingua, Salina. latitude: 38 deg. 32 min. N. longitude: 14 deg. 52 min. E. elevation: 20m. received as: A. ovata. Wild. Seed.

PI 524958 to 524961. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Denton, I.R., IBPGR, Rome, Italy; and Toll, J.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received 1978.

- PI 524958 donor id: 005A/2. origin: Kenya. collector id: 005A/2. other id: NSL 183727. locality: Naera village, Busia, Western Province. Cultivated. Seed.
- PI 524959 donor id: 340. origin: Kenya. local name: Somalia. collector id: 340. other id: NSL 184145. locality: Musokini village, Kitui, Eastern Province. Cultivated. Seed.
- PI 524960 donor id: 346. origin: Kenya. local name: Katengu. collector id: 346. other id: NSL 184151. locality: Kalisasi village, Kitui, Eastern Province. Cultivated. Seed.

PI 524958 to 524961-continued

PI 524961 donor id: 366. origin: Kenya. local name: Kamenzele. collector id: 366. other id: NSL 184169. locality: Mbiuni village, Machakos, Eastern Province. Cultivated. Seed.

PI 524962 to 524965. *Pisum sativum* L. FABACEAE Garden pea

Donated by: Kraft, J.M., USDA-ARS, Irrig. Agric. Res. & Ext. Center, Prosser, Washington, United States. remarks: Cooperative contribution of USDA-ARS and the Washington State University Experiment Station. Received September 16, 1988.

PI 524962 donor id: 86-638. origin: United States. pedigree: 691008 (sel. from PI 244113)/PH-91-3//PI 257593. other id: GP-74. group: CSR-PEAS. remarks: Plants bloom in 15th node. Double-podded. Seeds dimpled. disease resistance: Races 1 and 5 of *Fusarium oxysporum* f. sp. pisi. Tolerant to *Fusarium* root rot. Breeding Material. Seed.

PI 524963 donor id: 86-2197. origin: United States. pedigree: Tahoe/792022. other id: GP-75. group: CSR-PEAS. remarks: Plants semi-leafless (af/af), bloom in 16th node. Double-podded. Seeds wrinkled, canner type with green cotyledons. disease resistance: Races 1 and 2 of *Fusarium oxysporum* f. sp. pisi. Tolerant to *Aphanomyces* & *Fusarium* root rots. Breeding Material. Seed.

PI 524964 donor id: 86-2231. origin: United States. pedigree: Sel. from B5099/792022. other id: GP-76. group: CSR-PEAS. remarks: Plants semi-leafless (af/af), bloom in 14th node. Double-podded. Seeds wrinkled with green cotyledons. disease resistance: Races 1 and 2 of *Fusarium oxysporum* f. sp. pisi. Breeding Material. Seed.

PI 524965 donor id: 86-2236. origin: United States. pedigree: Sel. from B5762/792022. other id: GP-77. group: CSR-PEAS. remarks: Plants with normal foliage (AF/AF), blooms in 14th node. Double-podded. Seeds wrinkled, canner type with green cotyledons. disease resistance: Highly tolerant to *Aphanomyces* root rot. Breeding Material. Seed.

PI 524966. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Murphy, R.P. and Lowe,, C.C., Dept. of Plant Breeding and Biometry, Cornell University, Ithaca, New York, United States. remarks: Contribution from the Cornell Agric. Experiment Station. Received September 16, 1988.

PI 524966-continued

**origin:** United States. **cultivar:** ONEIDA. **pedigree:** Interpollination of more than 900 plants selected for disease resistance from Iroquois. **other id:** CV-159. **group:** CSR-ALFALFA. **remarks:** Plants vigorous. Foliage dark green. Fall dormancy similar to Iroquois and Vernal. Susceptible to anthracnose and Verticillium wilt. **disease resistance:** Bacterial and Fusarium wilts. High to Phytophthora root rot. Perennial. Cultivar. Seed.

PI 524967. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Murphy, R.P., Lowe, C.C., Viands, D.R., Dept. of Plant Breeding and Biometry, Cornell University, Ithaca, New York, United States. **remarks:** Contribution from the Cornell Agric. Experiment Station. Received September 16, 1988.

**origin:** United States. **cultivar:** MOHAWK. **pedigree:** Interpollination of more than 100 clones selected for disease resistance from Iroquois. **other id:** CV-160. **group:** CSR-ALFALFA. **remarks:** Plants vigorous. Foliage dark green. Fall dormancy similar to Iroquois and Vernal. Susceptible to Verticillium wilt and Phytophthora root rot. **disease resistance:** High to anthracnose and bacterial wilt. Moderate to Fusarium wilt. Perennial. Cultivar. Seed.

PI 524968. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Dobrenz, A.K., Dept. of Plant Sciences, University of Arizona, Tucson, Arizona, United States. Received September 16, 1988.

**donor id:** AZ-GERM SALT-II. **origin:** United States. **pedigree:** Selection derived from AZ-GERM SALT-I for germination salt tolerance. **other id:** GP-212. **group:** CSR-ALFALFA. **remarks:** Nondormant type. High germination salt tolerance. Perennial. Breeding Material. Seed.

PI 524969 to 524970. *Zea mays* L. POACEAE Corn

**Donated by:** Wicks, Z.W., Plant Science Department, South Dakota State University, Brookings, South Dakota, United States. Received September 16, 1988.

PI 524969 to 524970-continued

PI 524969 **donor id:** SD44. **origin:** United States. **pedigree:** Selfed sel. from inbred SDp309/inbred SD30. **other id:** PL-119. **group:** CSR-MAIZE. **remarks:** Yellow dent type for producing hybrids with good yields and low kernel moisture for central and southern South Dakota. Plants vigorous, approx. 174cm tall, dark green, with small tassels. Maturity intermediate to late, AES500. Stalk and root strength good. Cobs red with 18 to 20 rows of medium-sized kernels. Moisture content of seeds about 19% at 60 days after pollination. **disease resistance:** Northern corn leaf blight. Good to diplodia stalk rot. Breeding Material. Seed.

PI 524970 **donor id:** SD46. **origin:** United States. **pedigree:** Selfed sel. from Pioneer hybrid 3709. **other id:** PL-120. **group:** CSR-MAIZE. **remarks:** Yellow dent type for producing hybrids with good yields and low kernel moisture for central and southern South Dakota. Plants vigorous, approx. 200cm tall, dark green, with small tassels. Maturity intermediate to late. Stalk and root strength good. Cobs red with 12 to 14 rows of medium-sized kernels. Moisture content of seeds about 20% at 60 days after pollination. **disease resistance:** Northern corn leaf blight. Good to diplodia stalk rot. Breeding Material. Seed.

PI 524971 to 524992. *Triticum aestivum* L. POACEAE Common wheat

**Donated by:** Wang, X., Introduction Laboratory, Institute of Crop Germplasm Resources, Chinese Academy of Agricultural Sciences, Beijing, Peoples Republic of China. Received September 08, 1988.

PI 524971 **donor id:** Land no. 0158. **origin:** China, Peoples Repub of. **cultivar:** BEIJING NO. 8. **locality:** Beijing Province. Cultivar. Seed.

PI 524972 **donor id:** Land no. 0165. **origin:** China, Peoples Repub of. **cultivar:** NONG DA 183. **locality:** Beijing Province. Cultivar. Seed.

PI 524973 **donor id:** Land no. 1140. **origin:** China, Peoples Repub of. **cultivar:** SAN YUE HUANG. **locality:** Shanxi Province. Cultivar. Seed.

PI 524974 **donor id:** Land no. 1350. **origin:** China, Peoples Repub of. **cultivar:** KANG JIA ZHUANG NO. 3. **locality:** Shandong Province. Cultivar. Seed.

PI 524975 **donor id:** Land no. 1443. **origin:** China, Peoples Repub of. **cultivar:** BAI MANG BIAN SUI. **locality:** Shandong Province. Primitive Cultivar. Seed.

PI 524971 to 524992-continued

- PI 524976 donor id: Land no. 1541. origin: China, Peoples Repub of. cultivar: DA LI MAI. locality: Shandong Province. Primitive Cultivar. Seed.
- PI 524977 donor id: Land no. 1842. origin: China, Peoples Repub of. cultivar: KAO SHAN HONG. locality: Shandong Province. Primitive Cultivar. Seed.
- PI 524978 donor id: Land no. 1890. origin: China, Peoples Repub of. cultivar: HONG MANG GUO ZI TOU. locality: Shandong Province. Primitive Cultivar. Seed.
- PI 524979 donor id: Land no. 2030. origin: China, Peoples Repub of. cultivar: CHU SHAN BAO. locality: Henan Province. Primitive Cultivar. Seed.
- PI 524980 donor id: Land no. 2499. origin: China, Peoples Repub of. cultivar: SAN BAI MAI. locality: Henan Province. Cultivar. Seed.
- PI 524981 donor id: Land no. 2666. origin: China, Peoples Repub of. cultivar: BI MA NO. 1. locality: Shanxi Province. Cultivar. Seed.
- PI 524982 donor id: Land no. 2754. origin: China, Peoples Repub of. cultivar: LAN MAI. locality: Gansu Province. Primitive Cultivar. Seed.
- PI 524983 donor id: Land no. 2811. origin: China, Peoples Repub of. cultivar: HEI MANG DONG MAI. locality: Hinjiang Province. Primitive Cultivar. Seed.
- PI 524984 donor id: Land no. 2890. origin: China, Peoples Repub of. cultivar: NONG DA 45. locality: Beijing Province. Cultivar. Seed.
- PI 524985 donor id: Land no. 2948. origin: China, Peoples Repub of. cultivar: JING SHUANG NO. 1. locality: Beijing Province. Cultivar. Seed.
- PI 524986 donor id: Land no. 3004. origin: China, Peoples Repub of. cultivar: AI FENG NO. 3. locality: Shanxi Province. Cultivar. Seed.
- PI 524987 donor id: Land no. 3011. origin: China, Peoples Repub of. cultivar: YOU BAO MAI. locality: Shandong Province. Cultivar. Seed.
- PI 524988 donor id: Land no. 3116. origin: China, Peoples Repub of. cultivar: JING NAN NO. 9. locality: Shandong Province. Cultivar. Seed.

PI 524971 to 524992-continued

PI 524989 donor id: Land no. 3117. origin: China, Peoples Repub of. cultivar: JI NAN NO. 10. locality: Shandong Province. Cultivar. Seed.

PI 524990 donor id: Land no. 3156. origin: China, Peoples Repub of. cultivar: YAN SHI NO. 4. locality: Henan Province. Cultivar. Seed.

PI 524991 donor id: Land no. 3166. origin: China, Peoples Repub of. cultivar: MENG XIAN 201. locality: Henan Province. Cultivar. Seed.

PI 524992 donor id: Land no. 3178. origin: China, Peoples Repub of. cultivar: ZANG DONG NO. 2. locality: Xizang Province. Cultivar. Seed.

PI 524993 to 524994. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: VIR, Leningrad, Soviet Union. Received May 1988.

PI 524993 donor id: VIR 4112. origin: Soviet Union. cultivar: AMURSKAJA 41. Cultivated. Seed.

PI 524994 donor id: VIR 4558. origin: Soviet Union. cultivar: VENGERKA. Cultivated. Seed.

PI 524995 to 525069. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by: Denton, I.R., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received May 09, 1980.

PI 524995 donor id: MW 001. origin: Malawi. collected: 1980. collector: I.R. Denton. collector id: MW 001. other id: NSL 114190. Cultivated. Seed.

PI 524996 donor id: MW 013. origin: Malawi. collected: 1980. collector: I.R. Denton. collector id: MW 013. other id: NSL 114191. Cultivated. Seed.

PI 524997 donor id: MW 018. origin: Malawi. collected: 1980. collector: I.R. Denton. collector id: MW 018. other id: NSL 114192. Cultivated. Seed.

PI 524998 donor id: MW 019. origin: Malawi. collected: 1980. collector: I.R. Denton. collector id: MW 019. other id: NSL 114193. Wild. Seed.

PI 524999 donor id: MW 039. origin: Malawi. collected: 1980. collector: I.R. Denton. collector id: MW 039. other id: NSL 114194. Cultivated. Seed.

PI 524995 to 525069-continued

PI 525000 donor id: MW 054. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 054. other id:  
NSL 114196. Wild. Seed.

PI 525001 donor id: MW 086. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 086. other id:  
NSL 114197. Cultivated. Seed.

PI 525002 donor id: MW 091. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 091. other id:  
NSL 114198. Wild. Seed.

PI 525003 donor id: MW 103. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 103. other id:  
NSL 114199. Cultivated. Seed.

PI 525004 donor id: MW 116. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 116. other id:  
NSL 114200. Cultivated. Seed.

PI 525005 donor id: MW 167. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 167. other id:  
NSL 114201. Cultivated. Seed.

PI 525006 donor id: MW 181. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 181. other id:  
NSL 114202. Cultivated. Seed.

PI 525007 donor id: MW 182. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 182. other id:  
NSL 114203. Cultivated. Seed.

PI 525008 donor id: MW 232. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 232. other id:  
NSL 114204. Cultivated. Seed.

PI 525009 donor id: MW 233. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 233. other id:  
NSL 114205. Cultivated. Seed.

PI 525010 donor id: MW 249. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 249. other id:  
NSL 114206. Cultivated. Seed.

PI 525011 donor id: MW 253. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 253. other id:  
NSL 114207. Cultivated. Seed.

PI 525012 donor id: MW 254. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 254. other id:  
NSL 114208. Cultivated. Seed.

PI 524995 to 525069-continued

PI 525013 donor id: MW 262. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 262. other id:  
NSL 114209. Cultivated. Seed.

PI 525014 donor id: MW 340. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 340. other id:  
NSL 114210. Cultivated. Seed.

PI 525015 donor id: MW 351. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 351. other id:  
NSL 114211. Cultivated. Seed.

PI 525016 donor id: MW 359. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 359. other id:  
NSL 114212. Cultivated. Seed.

PI 525017 donor id: MW 360. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 360. other id:  
NSL 114213. Cultivated. Seed.

PI 525018 donor id: MW 368. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 368. other id:  
NSL 114214. Cultivated. Seed.

PI 525019 donor id: MW 369. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 369. other id:  
NSL 114215. Cultivated. Seed.

PI 525020 donor id: MW 381. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 381. other id:  
NSL 114216. Cultivated. Seed.

PI 525021 donor id: MW 382. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 382. other id:  
NSL 114217. Cultivated. Seed.

PI 525022 donor id: MW 383. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 383. other id:  
NSL 114218. Cultivated. Seed.

PI 525023 donor id: MW 390. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 390. other id:  
NSL 114219. Cultivated. Seed.

PI 525024 donor id: MW 438. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 438. other id:  
NSL 114220. Cultivated. Seed.

PI 525025 donor id: MW 439. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 439. other id:  
NSL 114221. Cultivated. Seed.



PI 524995 to 525069-continued

PI 525026 donor id: MW 443. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 443. other id:  
NSL 114222. Cultivated. Seed.

PI 525027 donor id: MW 444. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 444. other id:  
NSL 114223. Cultivated. Seed.

PI 525028 donor id: MW 445. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 445. other id:  
NSL 114224. Cultivated. Seed.

PI 525029 donor id: MW 446. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 446. other id:  
NSL 114225. Cultivated. Seed.

PI 525030 donor id: MW 450. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 450. other id:  
NSL 114226. Cultivated. Seed.

PI 525031 donor id: MW 452. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 452. other id:  
NSL 114227. Cultivated. Seed.

PI 525032 donor id: MW 453. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 453. other id:  
NSL 114228. Cultivated. Seed.

PI 525033 donor id: MW 456. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 456. other id:  
NSL 114229. Cultivated. Seed.

PI 525034 donor id: MW 463. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 463. other id:  
NSL 114230. Cultivated. Seed.

PI 525035 donor id: MW 484. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 484. other id:  
NSL 114231. Cultivated. Seed.

PI 525036 donor id: MW 487. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 487. other id:  
NSL 114232. Cultivated. Seed.

PI 525037 donor id: MW 489. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 489. other id:  
NSL 114233. Cultivated. Seed.

PI 525038 donor id: MW 490. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 490. other id:  
NSL 114234. Cultivated. Seed.

PI 524995 to 525069-continued

PI 525039 donor id: MW 491. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 491. other id:  
NSL 114235. Cultivated. Seed.

PI 525040 donor id: MW 504. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 504. other id:  
NSL 114236. Cultivated. Seed.

PI 525041 donor id: MW 515. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 515. other id:  
NSL 114237. Cultivated. Seed.

PI 525042 donor id: MW 516. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 516. other id:  
NSL 114238. Cultivated. Seed.

PI 525043 donor id: MW 519. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 519. other id:  
NSL 114239. Cultivated. Seed.

PI 525044 donor id: MW 520. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 520. other id:  
NSL 114240. Cultivated. Seed.

PI 525045 donor id: MW 521. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 521. other id:  
NSL 114241. Cultivated. Seed.

PI 525046 donor id: MW 573. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 573. other id:  
NSL 114242. Cultivated. Seed.

PI 525047 donor id: MW 574. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 574. other id:  
NSL 114243. Cultivated. Seed.

PI 525048 donor id: MW 610. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 610. other id:  
NSL 114244. Cultivated. Seed.

PI 525049 donor id: MW 628. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 628. other id:  
NSL 114245. Cultivated. Seed.

PI 525050 donor id: MW 629. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 629. other id:  
NSL 114246. Cultivated. Seed.

PI 525051 donor id: MW 636. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 636. other id:  
NSL 114247. Cultivated. Seed.

PI 524995 to 525069-continued

- PI 525052 donor id: MW 651. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 651. other id:  
NSL 114248. Cultivated. Seed.
- PI 525053 donor id: MW 658. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 658. other id:  
NSL 114249. Cultivated. Seed.
- PI 525054 donor id: MW 695. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 695. other id:  
NSL 114250. Cultivated. Seed.
- PI 525055 donor id: MW 696a. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 696a. other  
id: NSL 114251. Cultivated. Seed.
- PI 525056 donor id: MW 716. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 716. other id:  
NSL 114252. Cultivated. Seed.
- PI 525057 donor id: MW 717. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 717. other id:  
NSL 114253. Cultivated. Seed.
- PI 525058 donor id: MW 718. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 718. other id:  
NSL 114254. Cultivated. Seed.
- PI 525059 donor id: MW 719. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 719. other id:  
NSL 114255. Cultivated. Seed.
- PI 525060 donor id: MW 720. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 720. other id:  
NSL 114256. Cultivated. Seed.
- PI 525061 donor id: MW 722. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 722. other id:  
NSL 114257. Cultivated. Seed.
- PI 525062 donor id: MW 723. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 723. other id:  
NSL 114258. Cultivated. Seed.
- PI 525063 donor id: MW 727. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 727. other id:  
NSL 114259. Cultivated. Seed.
- PI 525064 donor id: MW 731a. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 731a. other  
id: NSL 114260. Cultivated. Seed.

PI 524995 to 525069-continued

- PI 525065 donor id: MW 756a. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 756a. other  
id: NSL 114261. Cultivated. Seed.
- PI 525066 donor id: MW 778. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 778. other id:  
NSL 114262. Cultivated. Seed.
- PI 525067 donor id: MW 781a. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 781a. other  
id: NSL 114263. Cultivated. Seed.
- PI 525068 donor id: MW 784. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 784. other id:  
NSL 114264. Cultivated. Seed.
- PI 525069 donor id: MW 796. origin: Malawi. collected: 1980.  
collector: I.R. Denton. collector id: MW 796. other id:  
NSL 114265. Cultivated. Seed.

PI 525070 to 525074. *Triticum aestivum* L. POACEAE Common wheat

**Donated by:** Cao, Y., Jiangsu Academy of Agricultural Sciences,  
Nanjing, Jiangsu 210014, People's Republic of China. Received  
September 07, 1988.

- PI 525070 donor id: JAAS 701. origin: China, Peoples Repub of.  
cultivar: CHE JIAN ZI. locality: Dongtai, Jiangsu.  
Primitive Cultivar. Seed.
- PI 525071 donor id: JAAS 708. origin: China, Peoples Repub of.  
cultivar: YA ZUI ZI. locality: Dongtai, Jiangsu.  
Primitive Cultivar. Seed.
- PI 525072 donor id: JAAS 710. origin: China, Peoples Repub of.  
cultivar: MEI XIU HUANG. locality: Dafeng, Jiangsu.  
Primitive Cultivar. Seed.
- PI 525073 donor id: JAAS 735. origin: China, Peoples Repub of.  
cultivar: YU HUA ZI. locality: Jianhu, Jiangsu.  
Primitive Cultivar. Seed.
- PI 525074 donor id: JAAS 737. origin: China, Peoples Repub of.  
cultivar: MEI QIAN WU. locality: Jianhu, Jiangsu.  
Primitive Cultivar. Seed.

PI 525075. *Cucumis sativus* L. CUCURBITACEAE Cucumber

**Donated by:** Damania, A.B., IBPGR, Rome, Italy; and Raghoo, M.; Ramasamy, S., Division of Horticulture, Ministry of Agriculture, Reduit, Mauritius. **remarks:** Received through IBPGR, Rome, Italy. Received July 16, 1985.

**donor id:** ABD 14. **origin:** Mauritius. **local name:** Concombre blanc. **collected:** March 08, 1985. **collector:** A.B. Damania, M. Raghoo, S. Ramasamy. **collector id:** ABD 14. **locality:** Farmstore, Souillac, Savanne. **latitude:** 20 deg. S. **longitude:** 50 deg. 45 min. E. **elevation:** 10m. **remarks:** Intercropped with Luffa sp. Used as salad. Leafspot reported. Primitive Cultivar. Seed.

PI 525076. *Cucurbita maxima* Duch. CUCURBITACEAE

**Donated by:** Damania, A.B., IBPGR, Rome, Italy; and Raghoo, M.; Ramasamy, S., Division of Horticulture, Ministry of Agriculture, Reduit, Mauritius. **remarks:** Received through IBPGR, Rome, Italy. Received July 16, 1985.

**donor id:** ABD 15. **origin:** Mauritius. **local name:** Giramaon. **collected:** March 08, 1985. **collector:** A.B. Damania, M. Raghoo, S. Ramasamy. **collector id:** ABD 15. **locality:** Farm, Bel Ombre, Savanne. **latitude:** 20 deg. S. **longitude:** 50 deg. 45 min. E. **elevation:** 15m. **remarks:** Fruit large. Intercropped with chillies. Seeds from single plant. Powdery mildew sometimes troublesome. Primitive Cultivar. Seed.

PI 525077. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

**Donated by:** Damania, A.B., IBPGR, Rome, Italy; and Raghoo, M.; Ramasamy, S., Division of Horticulture, Ministry of Agriculture, Reduit, Mauritius. **remarks:** Received through IBPGR, Rome, Italy. Received July 16, 1985.

**donor id:** ABD 22. **origin:** Mauritius. **local name:** Pomme d'amour. **collected:** March 07, 1985. **collector:** A.B. Damania, M. Raghoo, S. Ramasamy. **collector id:** ABD 22. **locality:** Farm, Mapou, Riviere du Rempart. **latitude:** 20 deg. S. **longitude:** 50 deg. 45 min. E. **elevation:** 125m. **remarks:** Intercropped with improved Taiwanese cultivars. Sown September, harvested March. Used as vegetable and for salad. Leaf spot rare. Primitive Cultivar. Seed.

PI 525078. *Phaseolus vulgaris* L. FABACEAE Garden bean

Donated by: Damania, A.B., IBPGR, Rome, Italy; and Raghoo, M.; Ramasamy, S., Division of Horticulture, Ministry of Agriculture, Reduit, Mauritius. remarks: Received through IBPGR, Rome, Italy. Received July 16, 1985.

donor id: ABD 1. origin: Mauritius. local name: Haricot. collected: March 07, 1985. collector: A.B. Damania, M. Raghoo, S. Ramasamy. collector id: ABD 1. locality: Farmstore, Goodlands, Riviere du Rempart. latitude: 20 deg. S. longitude: 50 deg. 45 min. E. elevation: 109m. Primitive Cultivar. Seed.

PI 525079. *Zea mays* L. POACEAE Corn

Donated by: Damania, A.B., IBPGR, Rome, Italy; and Raghoo, M.; Ramasamy, S., Division of Horticulture, Ministry of Agriculture, Reduit, Mauritius. remarks: Received through IBPGR, Rome, Italy. Received July 16, 1985.

donor id: ABD 18. origin: Mauritius. local name: Mais local. collector: A.B. Damania, M. Raghoo, S. Ramasamy. collector id: ABD 18. locality: Village market, Quatre Bornes, Moka. latitude: 20 deg. S. longitude: 50 deg. 45 min. E. elevation: 600m. remarks: May have come from Rodriques Island. Primitive Cultivar. Seed.

PI 525080 to 525083. *Citrullus colocynthis* (L.) Schrad. CUCURBITACEAE Colocynth

Donated by: Meer Vander, Q.P., IBPGR, Rome, Italy; and Youssef, S., Horticultural Research Institute, Giza, Egypt. remarks: Received through IBPGR, Rome, Italy. 1985 Collection of Balady (country-side or local) Strains of Egyptian Vegetables. Received February 06, 1986.

PI 525080 donor id: 11. origin: Egypt. collected: April 24, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 11. locality: Seed shop, Qus. Primitive Cultivar. Seed.

PI 525081 donor id: 27. origin: Egypt. collected: April 26, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 27. locality: Seed shop, Luxor. Primitive Cultivar. Seed.

PI 525082 donor id: 101. origin: Egypt. collected: May 04, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 101. locality: Farm, Ganah 11, 20km S of Kharga. Primitive Cultivar. Seed.

PI 525080 to 525083-continued

PI 525083 donor id: 102. origin: Egypt. collected: May 05, 1985.  
collector: Q.P. Vander Meer, S. Youssef. collector id:  
102. locality: Farm, Bed Khilo, 20km N of Mut (Dakla  
O.). Primitive Cultivar. Seed.

PI 525084 to 525100. *Citrullus lanatus* (Thunb.) Matsum. & Nakai  
CUCURBITACEAE Watermelon

Donated by: Meer Vander, Q.P., IBPGR, Rome, Italy; and Youssef, S.,  
Horticultural Research Institute, Giza, Egypt. remarks: Received  
through IBPGR, Rome, Italy. 1985 Collection of Balady (country-side  
or local) Strains of Egyptian Vegetables. Received February 06,  
1986.

PI 525084 donor id: 3. origin: Egypt. collected: April 24, 1985.  
collector: Q.P. Vander Meer, S. Youssef. collector id:  
3. locality: Farm, Hemidat, suburb W of Qena, Qena  
Province. latitude: 26 deg. 00 min. N. longitude: 32  
deg. 30 min. E. remarks: Sown April, harvested June.  
Associated with powdery mildew, red spider, mosaic virus,  
cucumber beetles and gummy stem blight. Possibly *Fusarium*  
resistant. received as: *C. vulgaris*. Annual. Primitive  
Cultivar. Seed.

PI 525085 donor id: 26. origin: Egypt. collected: April 25, 1985.  
collector: Q.P. Vander Meer, S. Youssef. collector id:  
26. locality: Seed shop, Dendara, 3km SW of Qena, Qena  
Province. latitude: 26 deg. 00 min. N. longitude: 32  
deg. 30 min. E. remarks: Local type. Seeds stored more  
than 5 years. received as: *C. vulgaris*. Primitive  
Cultivar. Seed.

PI 525086 donor id: 48. origin: Egypt. collected: April 28, 1985.  
collector: Q.P. Vander Meer, S. Youssef. collector id:  
48. locality: Seed shop, Akhmim, Sohag Province.  
latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min.  
E. remarks: Local type. Seeds white. received as: *C.*  
*vulgaris*. Primitive Cultivar. Seed.

PI 525087 donor id: 49. origin: Egypt. collected: April 24, 1985.  
collector: Q.P. Vander Meer, S. Youssef. collector id:  
49. locality: Farm, Hemidat, suburb W of Qena, Qena  
Province. latitude: 26 deg. 00 min. N. longitude: 32  
deg. 30 min. E. remarks: Fruit large, dark and light  
green strips. Sown April, harvested June. received as:  
*C. vulgaris*. Primitive Cultivar. Seed.

PI 525084 to 525100-continued

- PI 525088 donor id: 58. origin: Egypt. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 58. locality: Farm, Geziret Shandaweel, 10km N of Sohag, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Local type. Sown March, harvested June. received as: *C. vulgaris*. Primitive Cultivar. Seed.
- PI 525089 donor id: 67. origin: Egypt. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 67. locality: Farm, El Manshah, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min. E. remarks: Fruits 10kg, globe shaped, various colors, rind thick. Interplanted with wheat and onion. Sown March, harvested June. Powdery mildew, red spider and gummy stem blight observed. received as: *C. vulgaris*. Primitive Cultivar. Seed.
- PI 525090 donor id: 69. origin: Egypt. collected: April 30, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 69. locality: Farm, Kadadeeh, 5km NE of Abnoub, Asyut Province. latitude: 27 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Fruits 7kg, different shapes, long and globe, sweet, faint color. Seeds white. Sown March, harvested June. Aphids observed. received as: *C. vulgaris*. Primitive Cultivar. Seed.
- PI 525091 donor id: 71. origin: Egypt. collected: April 30, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 71. locality: Farm, Kadadeeh, 5km NE of Abnoub, Asyut Province. latitude: 27 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Fruits 7kg, different shapes, long and globe, sweet, faint color. Seeds black. Sown March, harvested June. Aphids observed. received as: *C. vulgaris*. Primitive Cultivar. Seed.
- PI 525092 donor id: 72. origin: Egypt. collected: April 30, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 72. locality: Farm, Kadadeeh, 5km NE of Abnoub, Asyut Province. latitude: 37 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Fruits 7kg, different shapes, long and globe, sweet, faint color. Seeds black-white. Sown March, harvested June. Aphids observed. received as: *C. vulgaris*. Primitive Cultivar. Seed.
- PI 525093 donor id: 108. origin: Egypt. collected: May 05, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 108. locality: Seed shop, Kharga, New Valley-Kharga Oases. latitude: 25 deg. 00 min. N. longitude: 30 deg. 30 min. E. elevation: 10-60m. remarks: Fruits large. Seeds from Nuba, Tahrir Province. received as: *C. vulgaris*. Primitive Cultivar. Seed.



PI 525084 to 525100-continued

- PI 525094 donor id: 199. origin: Egypt. collected: May 18, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 199. locality: Farm, Wadi El Arish, 3km N of El Arish, Sinai Province. latitude: 31 deg. 00 min. N. longitude: 34 deg. 00 min. E. remarks: Fruits large, grey, many shapes. Suitable for growing under natural rainfall in the north. Sown April, harvested June. Aphids observed. received as: *C. vulgaris*. Primitive Cultivar. Seed.
- PI 525095 donor id: 202. origin: Egypt. collected: May 18, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 202. locality: Seed shop, El Arish, Sinai Province. latitude: 31 deg. 00 min. N. longitude: 34 deg. 00 min. E. received as: *C. vulgaris*. Primitive Cultivar. Seed.
- PI 525096 donor id: 203. origin: Egypt. collected: May 19, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 203. locality: Farm, Abo Shennar, 6km W of Rafah, Raha Province. latitude: 31 deg. 00 min. N. longitude: 34 deg. 00 min. E. Primitive Cultivar. Seed.
- PI 525097 donor id: 206. origin: Egypt. collected: May 19, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 206. locality: Farm, Masura, 2km W of Rafah, Sinai Province. latitude: 31 deg. 00 min. N. longitude: 34 deg. 00 min. E. remarks: Fruits globe-shaped. Sown March, harvested August. received as: *C. vulgaris*. Primitive Cultivar. Seed.
- PI 525098 donor id: 240. origin: Egypt. local name: Giza 1. collected: May 23, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 240. locality: Horticulture Research Institute, Giza. latitude: 30 deg. 00 min. N. longitude: 31 deg. 00 min. E. received as: *C. vulgaris*. Cultivated. Seed.
- PI 525099 donor id: 328. origin: Egypt. collected: June 25, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 328. locality: Farmstore, El Kasr, 12km W of Mersah-Matrouh, Mersah-Matrouh Province. latitude: 31 deg. 00 min. N. longitude: 27 deg. 00 min. E. remarks: Farmer: Saleh Rahel. Primitive Cultivar. Seed.
- PI 525100 donor id: 403. origin: Egypt. collected: June 30, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 403. locality: Seed shop, Cairo. latitude: 30 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Shaapan El Korma, 45 Gamheria Street, Opera Place. Primitive Cultivar. Seed.

PI 525101 to 525130. Cucumis melo L. CUCURBITACEAE

**Donated by:** Meer Vander, Q.P., IBPGR, Rome, Italy; and Youssef, S., Horticultural Research Institute, Giza, Egypt. **remarks:** Received through IBPGR, Rome, Italy. 1985 Collection of Balady (country-side or local) Strains of Egyptian Vegetables. Received February 06, 1986.

- PI 525101 donor id: 14. origin: Egypt. collected: April 25, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 14. locality: Farm, Hella, 3km S of Isna, Qena Province. latitude: 25 deg. 30 min. N. longitude: 32 deg. 30 min. E. remarks: Fruits 5kg, globe shaped. Local type. Sown March, harvested July. Powdery mildew, thrips, aphids, cotton worms observed. Primitive Cultivar. Seed.
- PI 525102 donor id: 15. origin: Egypt. collected: April 25, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 15. locality: Farm, Hella, 3km S of Isna, Qena Province. latitude: 25 deg. 30 min. N. longitude: 32 deg. 30 min. E. remarks: Fruits 7kg, oblong shaped. Local type. Sown March, harvested July. Powdery mildew, thrips, aphids, cotton worms observed. Primitive Cultivar. Seed.
- PI 525103 donor id: 22. origin: Egypt. collected: April 25, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 22. locality: Seed shop, Qena, Qena Province. latitude: 26 deg. 00 min. N. longitude: 32 deg. 30 min. E. remarks: Supplier: Farouk Hazem Barsey. Primitive Cultivar. Seed.
- PI 525104 donor id: 33. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 33. locality: Farm, Alsalamoni, 10km N of Akhmim, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Fruits different shapes. Local type. Sown March, harvested June. Powdery mildew observed. Primitive Cultivar. Seed.
- PI 525105 donor id: 43. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 43. locality: Farm, Elahaiwa Shark, 16km S Akhmim, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min. E. remarks: Fruits variable shapes and skin roughness. Local type. Sown March, harvested June. Powdery mildew observed. Primitive Cultivar. Seed.
- PI 525106 donor id: 47. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 47. locality: Seed shop, Akhmim, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min. E. remarks: Local type. Primitive Cultivar. Seed.

PI 525101 to 525130-continued

- PI 525107 donor id: 57. origin: Egypt. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 57. locality: Farm, Tima, Sohag Province. latitude: 27 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Local type. Primitive Cultivar. Seed.
- PI 525108 donor id: 63. origin: Egypt. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 63. locality: Farm, El Manshah, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min. E. remarks: Local type. Sown February, harvested June. Powdery mildew and cucurbit fly observed. Primitive Cultivar. Seed.
- PI 525109 donor id: 70. origin: Egypt. collected: April 30, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 70. locality: Farm, Kadadeeh, 5km NE of Abnoub, Asyut Province. latitude: 27 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Fruits very sweet, variegated color. Local type. Sown March, harvested June. Aphids observed. Primitive Cultivar. Seed.
- PI 525110 donor id: 77. origin: Egypt. local name: Bassosy. collected: April 30, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 77. locality: Seed shop, Adyut, Asyut Province. latitude: 27 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Fruits oblong, yellow with green stripes. Local type. Supplier: Youssef Bebawy. Primitive Cultivar. Seed.
- PI 525111 donor id: 81. origin: Egypt. collected: May 02, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 81. locality: Farm, Masra, 18km N of Asyut, Asyut Province. latitude: 27 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Fruits 2.5kg, oblong, sweet, green or yellow. Local type. Sown February, harvested June. Gummy stem blight observed. Primitive Cultivar. Seed.
- PI 525112 donor id: 82. origin: Egypt. collected: May 02, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 82. locality: Farm, Masha, 18km N of Asyut, Asyut Province. latitude: 27 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Fruits 2.5kg, oblong, sweet, green or yellow. Local type. Sown February, harvested June. Gummy stem blight observed. Primitive Cultivar. Seed.

PI 525101 to 525130-continued

- PI 525113 donor id: 90. origin: Egypt. collected: May 04, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 90. locality: Farm, 3km S of Kharga, New Valley Province. latitude: 25 deg. 30 min. N. longitude: 30 deg. 30 min. E. elevation: 10-60m. remarks: Local type. Sown May, harvested July. Powdery mildew, cucurbit beetles and aphids observed. Primitive Cultivar. Seed.
- PI 525114 donor id: 100. origin: Egypt. collected: May 04, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 100. locality: Farm, Khartoum, 30km S of Kharga, Nev Valley Province. latitude: 25 deg. 00 min. N. longitude: 30 deg. 30 min. E. elevation: 10-60m. remarks: Fruits large, sweet, smooth. Local type. Sown March, harvested June. Cucumber beetles observed. Primitive Cultivar. Seed.
- PI 525115 donor id: 115. origin: Egypt. local name: Tahawee. collected: May 07, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 115. locality: Farm, Taha Elaameda, 20km SE of Smalut, Minya Province. latitude: 28 deg. 30 min. N. longitude: 30 deg. 30 min. E. remarks: Fruits 5kg, medium. Local type. Sown April, harvested July. Powdery mildew and gummy stem blight observed. Primitive Cultivar. Seed.
- PI 525116 donor id: 126. origin: Egypt. collected: May 08, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 126. locality: Farm, Banub Dahr El Gammal, 2km W of Dairut, Asyut Province. latitude: 27 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Sown March, harvested June. Powdery mildew and gummy stem blight observed. Primitive Cultivar. Seed.
- PI 525117 donor id: 129. origin: Egypt. collected: May 08, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 129. locality: Seed shop, Beni-Mazar, Minya Province. latitude: 28 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Gaber Sidhom. Primitive Cultivar. Seed.
- PI 525118 donor id: 140. origin: Egypt. collected: May 09, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 140. locality: Seed shop, El Fashn, Beni-Suef Province. latitude: 29 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Mohamed Mohamed Aly. Primitive Cultivar. Seed.

PI 525101 to 525130-continued

- PI 525119 donor id: 144. origin: Egypt. collected: May 09, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 144. locality: Farm, Nasser, 9km N of Beni-Suef, Beni-Suef Province. latitude: 29 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Primitive Cultivar. Seed.
- PI 525120 donor id: 145. origin: Egypt. collected: May 09, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 145. locality: Farm, Beni Solayman, 20km S of El Wasta, Beni-Suef Province. latitude: 29 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Sown March, harvested June. Powdery mildew, aphids, red spider, and white fly observed. Primitive Cultivar. Seed.
- PI 525121 donor id: 171. origin: Egypt. collected: May 13, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 171. locality: Seed shop, Shebin el Koum, Menufia Province. latitude: 30 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Company of Menufia for Seeds. Primitive Cultivar. Seed.
- PI 525122 donor id: 208. origin: Egypt. collected: May 21, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 208. locality: Seed shop, Cairo. latitude: 30 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Supplier: Ahmed Ali El Bamby, 2 Ahmed Maher Square, Bab El Khalk. Primitive Cultivar. Seed.
- PI 525123 donor id: 225. origin: Egypt. local name: Basosey. collected: May 22, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 225. locality: Seed shop, Almohtamadeya, 3km W of Giza, Giza Province. latitude: 30 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Ahmed Mohammed Shama. Primitive Cultivar. Seed.
- PI 525124 donor id: 325. origin: Egypt. collected: June 23, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 325. locality: Seed shop, Mansura, Dakhliya Province. latitude: 31 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Supplier: Abdel-Monem Mosa, Egyptian Company for Agriculture, Sok El Togar Street, Mansura City. Primitive Cultivar. Seed.
- PI 525125 donor id: 329. origin: Egypt. collected: June 25, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 329. locality: Farm, 12km W of Mersah-Matrouh, Mersah-Matrouh Province. latitude: 31 deg. 00 min. N. longitude: 27 deg. 00 min. E. remarks: Farmer: Saleh Rahel. Primitive Cultivar. Seed.

PI 525101 to 525130-continued

- PI 525126 donor id: 363. origin: Egypt. collector: Q.P. Vander Meer, S. Youssef. collector id: 363. locality: Seed shop, Zagazik/Hoad El Tarfa, Sharkia Province. Primitive Cultivar. Seed.
- PI 525127 donor id: 373. origin: Egypt. collected: June 29, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 373. locality: Seed shop, Faiyum, Faiyum Province. latitude: 29 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Mr. Hassan Nassar, Egyptian Seed Company, Medan El Mahata. Primitive Cultivar. Seed.
- PI 525128 donor id: 378. origin: Egypt. collected: June 29, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 378. locality: Seed shop, Faiyum, Faiyum Province. latitude: 29 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Mr. Ahmed Hessian Hassan, Elwakidi-Mabiada. Primitive Cultivar. Seed.
- PI 525129 donor id: 388. origin: Egypt. local name: Shailan. collected: June 29, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 388. locality: Seed shop, Ebshoway, 20km W of Faiyum, Faiyum Province. latitude: 29 deg. 30 min. N. longitude: 30 deg. 30 min. E. remarks: Supplier: Mr. Rahea Aly Abdelall, Egyptian Company for Agric. Development. Primitive Cultivar. Seed.
- PI 525130 donor id: 394. origin: Egypt. collected: June 30, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 394. locality: Seed shop, Cairo. latitude: 30 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Shaapan El Korma, 45 Gomheria Street, Opera Place. Primitive Cultivar. Seed.

PI 525131 to 525149. Cucumis melo var. flexuosus (L.) Naud.  
CUCURBITACEAE Snake cucumber

Donated by: Meer Vander, Q.P., IBPGR, Rome, Italy; and Youssef, S., Horticultural Research Institute, Giza, Egypt. remarks: Received through IBPGR, Rome, Italy. 1985 Collection of Balady (country-side or local) Strains of Egyptian Vegetables. Received February 06, 1986.

- PI 525131 donor id: 45. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 45. locality: Cairo seed shop, originally from Akhmim, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min. E. remarks: Fruits long, green. Primitive Cultivar. Seed.

PI 525131 to 525149-continued

- PI 525132 donor id: 46. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 46. locality: Cairo seed shop, originally from Akhmim, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min. E. remarks: Fruits short, light green. Primitive Cultivar. Seed.
- PI 525133 donor id: 50. origin: Egypt. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 50. locality: Farm, Tima, Sohag Province. latitude: 27 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Local type. Primitive Cultivar. Seed.
- PI 525134 donor id: 60. origin: Egypt. local name: Aggour. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 60. locality: Farm, Geziret Shandaweel, 10km N of Sohag, Sogag Province. latitude: 26 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Local type. Primitive Cultivar. Seed.
- PI 525135 donor id: 87. origin: Egypt. local name: Katta. collected: May 02, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 87. locality: Seed shop, Asyut, Asyut Province. latitude: 27 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Al Khodary Seed Company. Primitive Cultivar. Seed.
- PI 525136 donor id: 88. origin: Egypt. local name: Dronka Agour. collected: May 02, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 88. locality: Seed shop, Asyut, Asyut Province. latitude: 27 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Fruits very long. Local type. Supplier: Al Khodary Seed Company. Primitive Cultivar. Seed.
- PI 525137 donor id: 132. origin: Egypt. collected: May 08, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 132. locality: Seed shop, Beni-Mazar, Minya Province. latitude: 28 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Gaber Sidhom. Primitive Cultivar. Seed.
- PI 525138 donor id: 139. origin: Egypt. collected: May 09, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 139. locality: Seed shop, El Fashn, Beni-Suef Province. latitude: 29 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Mohamed Mohamed Aly. Primitive Cultivar. Seed.

PI 525131 to 525149-continued

- PI 525139 donor id: 174. origin: Egypt. collected: May 13, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 174. locality: Seed shop, Shebin el Koum, Menufia Province. latitude: 30 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Company of Menufia for Seeds. Primitive Cultivar. Seed.
- PI 525140 donor id: 184. origin: Egypt. collected: May 15, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 184. locality: Seed shop, El Mansura, Dakahlia Province. latitude: 31 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Local type. Supplier: Ali Sleman, Sok El-Kagat, El Mansura. Primitive Cultivar. Seed.
- PI 525141 donor id: 193. origin: Egypt. local name: Mabolsi. collected: May 15, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 193. locality: Seed shop, Tanta, Gharbia Province. latitude: 31 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: El Nенаe, Medan El Saa, Tanta. Primitive Cultivar. Seed.
- PI 525142 donor id: 209. origin: Egypt. collected: May 21, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 209. locality: Seed shop, Cairo. latitude: 30 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Supplier: Ahmed Ali El Bambi, 2 Ahmed Maher Square, Bab El Khalk. Primitive Cultivar. Seed.
- PI 525143 donor id: 229. origin: Egypt. local name: Shamey. collected: May 22, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 229. locality: Seed shop, Almohtamadeya, 3km W of Giza, Giza. latitude: 30 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Fruits white. Supplier: Ahmed Mohammed Shama. Primitive Cultivar. Seed.
- PI 525144 donor id: 322. origin: Egypt. collected: June 23, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 322. locality: Seed shop, Mansura, Dakahlia Province. latitude: 31 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Abdel-Monem Mosa, Egyptian Company for Agriculture, Sok El Togar Street, Mansura City. Primitive Cultivar. Seed.
- PI 525145 donor id: 336. origin: Egypt. collector: Q.P. Vander Meer, S. Youssef. collector id: 336. locality: Seed shop, Damanhour, Behaira Province. Primitive Cultivar. Seed.



PI 525131 to 525149-continued

- PI 525146 donor id: 365. origin: Egypt. local name: El Gamusi. collected: June 28, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 365. locality: Seed shop, Zagazik, Sharkia Province. latitude: 30 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Supplier: Company for Seeds and Chemicals, Mohamed Ibrahim Atleya, Elnukrashy Street. Primitive Cultivar. Seed.
- PI 525147 donor id: 382. origin: Egypt. collected: June 29, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 382. locality: Seed shop, Faiyum, Faiyum Province. latitude: 29 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Mr. Ahmed Hessian Hassan, Elwakidi-Mabiada. Primitive Cultivar. Seed.
- PI 525148 donor id: 385. origin: Egypt. collected: June 29, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 385. locality: Seed shop, Ebshoway, 20km W of Faiyum, Faiyum Province. latitude: 29 deg. 30 min. N. longitude: 30 deg. 30 min. E. remarks: Supplier: Egyptian Company for Agric. Development, Mr. Rahea Aly Abdelall. Primitive Cultivar. Seed.
- PI 525149 donor id: 398. origin: Egypt. collected: June 30, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 398. locality: Seed shop, Cairo. latitude: 30 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Shaapan El Korma, 45 Gomheria Street, Opera Place. Primitive Cultivar. Seed.

PI 525150 to 525165. Cucumis sativus L. CUCURBITACEAE Cucumber

Donated by: Meer Vander, Q.P., IBPGR, Rome, Italy; and Youssef, S., Horticultural Research Institute, Giza, Egypt. remarks: Received through IBPGR, Rome, Italy. 1985 Collection of Balady (country-side or local) Strains of Egyptian Vegetables. Received February 06, 1986.

- PI 525150 donor id: 8. origin: Egypt. collected: April 24, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 8. locality: Farm, Gragose, 3km S of Qus, Qena Province. latitude: 26 deg. 00 min. N. longitude: 33 deg. 00 min. E. remarks: Local type. Sown from March through summer, harvested May through summer. Used in salad. Powdery mildew and viruses observed. Primitive Cultivar. Seed.

PI 525150 to 525165-continued

- PI 525151 donor id: 23. origin: Egypt. collected: April 25, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 23. locality: Seed shop, Qena. latitude: 26 deg. 00 min. N. longitude: 32 deg. 30 min. E. remarks: Local type. Supplier: Farouk Hazem Barsy. Primitive Cultivar. Seed.
- PI 525152 donor id: 30. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 30. locality: Farmstore, Alsalamoni, 10km N of Akhmim, Akhmim Province. latitude: 26 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Fruits large. Local type. Sown March, harvested May. Used in salad. Powdery mildew and gummy stem blight observed. Primitive Cultivar. Seed.
- PI 525153 donor id: 37. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 37. locality: Farm, Alsalamoni, 10km N of Akhmim, Akhmim Province. latitude: 26 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Local type. Sown March, harvested May. Used in salad. Powdery mildew and gummy stem blight observed. Primitive Cultivar. Seed.
- PI 525154 donor id: 42. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 42. locality: Farm, Elahaiwa Shark, 16km S of Akhmim, Akhmim Province. latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min. E. remarks: Fruits thick, short. Local type. Sown March, harvested May. Used in salad. Powdery mildew observed. Primitive Cultivar. Seed.
- PI 525155 donor id: 55. origin: Egypt. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 55. locality: Farm, Tima, Sohag Province. latitude: 27 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Local type. Primitive Cultivar. Seed.
- PI 525156 donor id: 66. origin: Egypt. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 66. locality: Farm, El Manshah, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min. E. remarks: Fruits large, thick, faint green, hard skin. Local type. Sown January, harvested April. Used in salad. Powdery mildew and gummy stem blight observed. Primitive Cultivar. Seed.

PI 525150 to 525165-continued

- PI 525157 donor id: 86. origin: Egypt. collected: May 02, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 86. locality: Seed shop, Asyut. latitude: 27 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Al Khodary Seed Company. Primitive Cultivar. Seed.
- PI 525158 donor id: 119. origin: Egypt. collected: May 07, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 119. locality: Seed shop, Minya. latitude: 28 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Primitive Cultivar. Seed.
- PI 525159 donor id: 147. origin: Egypt. collected: May 12, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 147. locality: Village market, Kafr El-Shikhsleem, 5km S of Tanta, Tanta Province. latitude: 31 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Sown January, harvested April. Used in salad. Powdery mildew observed. Primitive Cultivar. Seed.
- PI 525160 donor id: 162. origin: Egypt. collected: May 13, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 162. locality: Farm, Kafr Hegazy, 9km E of Suhada, El Suhada Province. latitude: 30 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Sown February, harvested April. Used in salad. Powdery mildew, white fly, red spider, and aphids observed. Primitive Cultivar. Seed.
- PI 525161 donor id: 210. origin: Egypt. collected: May 21, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 210. locality: Seed shop, Cairo. latitude: 30 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Supplier: Ahmed Ali El Bambi, 2 Ahmed Maher Square, Bab El Khalk. Primitive Cultivar. Seed.
- PI 525162 donor id: 323. origin: Egypt. collected: June 23, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 323. locality: Seed shop, Mansura, Dakhlia Province. latitude: 31 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Supplier: Abdel-Monem Mosa, Egyptian Company of Agriculture, Sok El Togar Street, Manisura City. Primitive Cultivar. Seed.
- PI 525163 donor id: 364. origin: Egypt. collected: June 28, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 364. locality: Seed shop, Zagazik, Sharkia Province. latitude: 30 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Supplier: Company for Seeds and Chemicals, Mohamed Ibrahim Atteya, Elnukrashy Street. Primitive Cultivar. Seed.

PI 525150 to 525165-continued

- PI 525164 donor id: 366. origin: Egypt. local name: El Shany. collected: June 28, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 366. locality: Seed shop, Zagazik, Sharkia Province. latitude: 30 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Supplier: Company for Seeds and Chemicals, Mohamed Ibrahim Atteya, Elnukrashy Street. Primitive Cultivar. Seed.
- PI 525165 donor id: 393. origin: Egypt. collected: June 30, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 393. locality: Seed shop, Cairo. latitude: 30 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Shaapan El Korma, 45 Gomheriastreet, Opera Place. Primitive Cultivar. Seed.

PI 525166 to 525182. Cucurbita pepo L. CUCURBITACEAE Squash

- Donated by: Meer Vander, Q.P., IBPGR, Rome, Italy; and Youssef, S., Horticultural Research Institute, Giza, Egypt. remarks: Received through IBPGR, Rome, Italy. 1985 Collection of Balady (country-side or local) Strains of Egyptian Vegetables. Received February 06, 1986.
- PI 525166 donor id: 9. origin: Egypt. collected: April 24, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 9. locality: Farm, Gragose, 3km S of Qus, Qena Province. latitude: 26 deg. 00 min. N. longitude: 33 deg. 00 min. E. remarks: Sown February, harvested April. Powdery mildew and viruses observed. Primitive Cultivar. Seed.
- PI 525167 donor id: 35. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 35. locality: Farm, Alsalamoni, 10km N of Akhmim, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Shapes variable. Local type. Sown March, harvested May. Primitive Cultivar. Seed.
- PI 525168 donor id: 36. origin: Egypt. collected: April 28, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 36. locality: Farm, Alsalamoni, 10km N of Akhmim, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 31 deg. 30 min. E. remarks: Local type. Sown March, harvested May. Primitive Cultivar. Seed.
- PI 525169 donor id: 54. origin: Egypt. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 54. locality: Farm, El Manshah, Sohag Province. latitude: 27 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Local type. Primitive Cultivar. Seed.

PI 525166 to 525182-continued

- PI 525170 donor id: 65. origin: Egypt. collected: April 29, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 65. locality: Farm, El Manshah, Sohag Province. latitude: 26 deg. 30 min. N. longitude: 32 deg. 00 min. E. remarks: Local type. Sown February, harvested April. Powdery mildew, red spider, virus, and aphids observed. Primitive Cultivar. Seed.
- PI 525171 donor id: 107. origin: Egypt. collected: May 05, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 107. locality: Seed shop, Mut, New Valley-Dakhla Oases. latitude: 25 deg. 30 min. N. longitude: 29 deg. 00 min. E. elevation: 100-130m. remarks: Local type. Primitive Cultivar. Seed.
- PI 525172 donor id: 111. origin: Egypt. collected: May 05, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 111. locality: Seed shop, Kharga, New Valley-Kharga Oases. latitude: 25 deg. 00 min. N. longitude: 30 deg. 30 min. E. elevation: 10-60m. Primitive Cultivar. Seed.
- PI 525173 donor id: 116. origin: Egypt. collected: May 07, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 116. locality: Seed shop, Minya, Minya Province. latitude: 28 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Primitive Cultivar. Seed.
- PI 525174 donor id: 131. origin: Egypt. collected: May 08, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 131. locality: Seed shop, Beni-Mazar, Minya Province. latitude: 28 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Gaber Sidhom. Primitive Cultivar. Seed.
- PI 525175 donor id: 141. origin: Egypt. collected: May 09, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 141. locality: Seed shop, El Fashn, Beni-Suef Province. latitude: 29 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Mohamed Mohamed Aly. Primitive Cultivar. Seed.
- PI 525176 donor id: 157. origin: Egypt. collected: May 12, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 157. locality: Farm, Bolkema, 3km S of Mehala, Mehala El Kobra. latitude: 31 deg. 00 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Sown November, harvested January. Primitive Cultivar. Seed.

PI 525166 to 525182-continued

- PI 525177 donor id: 165. origin: Egypt. collected: May 13, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 165. locality: Farm, Zawyh El Naora, 11km N of El Suhada, Menufia Province. latitude: 30 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Sown March, harvested April. Not grown in Delta in Nov., Dec., Jan. Primitive Cultivar. Seed.
- PI 525178 donor id: 173. origin: Egypt. collected: May 13, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 173. locality: Seed shop, Shebin El-Koum, Menufia Province. latitude: 30 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Local type. Supplier: Company of Menufia for Seeds. Primitive Cultivar. Seed.
- PI 525179 donor id: 178. origin: Egypt. local name: Alexandria. collected: May 15, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 178. locality: Seed shop, El Mansura, Dakahlia Province. latitude: 31 deg. 00 min. N. longitude: 31 deg. 30 min. E. remarks: Supplier: Mohamed Ali Sleman, Sok El-kagat, El Mansura. Primitive Cultivar. Seed.
- PI 525180 donor id: 200. origin: Egypt. collected: May 18, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 200. locality: Seed shop, El Arish, Sinai Province. latitude: 31 deg. 00 min. N. longitude: 34 deg. 00 min. E. remarks: Fruits large. Local type. Cooked for dessert with milk and sugar. Primitive Cultivar. Seed.
- PI 525181 donor id: 241. origin: Egypt. local name: Eskanderani. collected: May 23, 1985. collector: Q.P. Vander Meer, S. Youssef. collector id: 241. locality: Horticulture Res. Institute, Giza. latitude: 30 deg. 00 min. N. longitude: 31 deg. 00 min. E. Cultivar. Seed.
- PI 525182 donor id: 370. origin: Egypt. local name: Eskanderani from Niagara. collected: June 29, 1986. collector: Q.P. Vander Meer, S. Youssef. collector id: 370. locality: Seed shop, Faiyum. latitude: 29 deg. 30 min. N. longitude: 31 deg. 00 min. E. remarks: Supplier: Mr. Hassan Nassar, Egyptian Seed Company, Medan El Mahata. Primitive Cultivar. Seed.

PI 525183. *Avena sativa* L. POACEAE Common oat

Donated by: McMullen, M.S., Department of Crop and Weed Science, North Dakota State University, Fargo, North Dakota, United States. Received September 21, 1988.

PI 525183-continued

**donor id:** ND820603. **origin:** United States. **cultivar:** VALLEY. **pedigree:** Froker/RL3038//Hudson/3/Porter.  
**remarks:** Maturity very late. Stems medium, glabrous, yellow. Panicle equilateral, 25cm long. Straw strength exceptionally good. Kernels off-white or ivory. Grain yield good in environments with high yield potential. Suited for areas with high yield potential and intensive management where straw strength is important. **disease resistance:** Good to crown and stem rust. Some tolerance to BYDV. Spring Annual. Cultivated. Seed.

PI 525184. *Solanum tuberosum* L. SOLANACEAE Potato

**Donated by:** Mix, G., Inst. fur Pflanzenbau & Pflanzenzuchtung, Bundesforschungsanstalt fur Landwirt., D-3300 Braunschweig, Federal Repub. of Germany. Received June 28, 1910.

**donor id:** BGRC-031 240. **origin:** Germany, Federal Rep of. **cultivar:** BONA. **other id:** Q26246. Cultivar. Tissue Culture.

PI 525185 to 525191. *Hordeum vulgare* L. POACEAE Barley

**Donated by:** Salo, Y., Department of Plant Breeding, Agricultural Research Centre, SF-31600 Jokioinen, Finland. Received August 09, 1988.

PI 525185 **origin:** Finland. **cultivar:** ARRA. **pedigree:** Varde/Otra. **remarks:** Feed type. Maturity 88 days. Plants 82cm tall, productive. Protein yield high. Hectolitre weight high. Kernels large, 37.1g/1000. Lysine yield highest of all barleys. Cultivar. Seed.

PI 525186 **origin:** Finland. **cultivar:** ETU. **pedigree:** Bonus/Varde. **remarks:** Feed and enzyme malting type. Maturity 90 days. Plants 59cm tall, productive. Straw short and stiff, resistant to lodging. Protein content high. Kernels small, 37.3g/1000. Hectolitre weight good. Performs well on moist, fine sandy and fertile soils. Tolerant of soil acidity. Cultivar. Seed.

PI 525187 **origin:** Finland. **cultivar:** KILTA. **pedigree:** Voitlo/Vega//Bonus. **remarks:** Malting type. Maturity early, 89 days. Plants 78cm tall, productive. Protein yield very high. Lysine yield best of all recommended list varieties. Kernels large, 37.7g/1000. Hectolitre weight good. Used as enzyme malt and feed barley. Cultivar. Seed.

PI 525185 to 525191-continued

PI 525188 **origin:** Finland. **cultivar:** NIINA. **pedigree:** Varde/Otra. **remarks:** Fodder type. Maturity 85 days. Plants 85cm tall. Outyields most other Finnish varieties. Protein yield high. Straw long. Lodging resistance average. Hectolitre weight highest among several rowed barleys cultivated in Finland. Kernels large, 37.2g/1000. Protein content average. Cultivar. Seed.

PI 525189 **origin:** Finland. **cultivar:** POMO. **pedigree:** Voitlo/Vega//Bonus. **remarks:** Feed and enzyme malting type. Maturity late, 92 days. Plants 84cm tall, productive. Several rowed. Straw long, stiff. Some lodging resistance. Kernels large, heavy, 38g/1000. Hectolitre weight good. Protein content low. Cultivar. Seed.

PI 525190 **origin:** Finland. **cultivar:** LUJA. **pedigree:** Svenno//Hopea/Tammi. **remarks:** Maturity early, 103 days. Plants 83cm tall. Straw short, sturdy with superior stiffness. Kernels small, 32g/1000. Protein percentage 14.5. Spring Annual. Cultivar. Seed.

PI 525191 **origin:** Finland. **cultivar:** TAHTI. **pedigree:** Karni//Aurore/Pika. **remarks:** Maturity late, 112 days. Plants 95cm tall. Straw long, stiff. Yield medium. Kernels medium, 34g/1000. Hectolitre weight high. Protein and baking quality excellent. **disease resistance:** Good to loose smut and rusts. Moderate to mildew. Some to Septoria. Spring Annual. Cultivar. Seed.

PI 525192. *Hordeum vulgare* L. POACEAE Barley

**Donated by:** Shugar, L., W.G. Thompson and Sons, Ltd., Blenheim, Ontario, Canada. **remarks:** Received through M.A. Brinkman, Dept. of Agronomy, Univ. of Wisconsin, Madison. Received September 12, 1988.

**donor id:** TB79202. **origin:** Canada. **cultivar:** BOUNTY. **remarks:** Six rowed, feed type. Maturity midseason. Awns smooth. High in weight per kernel. Yield potential high. **disease resistance:** Good to powdery mildew. Spring Annual. Cultivar. Seed.

PI 525193. *Hordeum vulgare* L. POACEAE Barley

**Donated by:** Brinkman, M.A., Dept. of Agronomy, University of Wisconsin, 1575 Linden Drive, Madison, Wisconsin, United States. Received September 12, 1988.



PI 525193-continued

donor id: WI2860-3. origin: United States. cultivar: CHOPPER. pedigree: Butte/SD-698. remarks: Two rowed, forage type. Heading late. Height medium. Spikes noded at maturity. Awns rough. Aleurone white. Susceptible to lodging during three week period immediately following heading. Forage and protein yeild high. disease resistance: Excellent to mildew and leaf rust. Spring Annual. Cultivar. Seed.

PI 525194 to 525195. *Hordeum vulgare* L. POACEAE Barley

Donated by: Australian Winter Cereals Collection, RMB 944, Tamworth, Australia. Received January 25, 1988.

PI 525194 donor id: 402713. origin: Australia. cultivar: MOONDYNE. Cultivar. Seed.

PI 525195 donor id: 402729. origin: Australia. cultivar: ULANDRA. Cultivar. Seed.

PI 525196 to 525198. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Australian Winter Cereals Collection, RMB 944, Tamworth, Australia. Received January 25, 1988.

PI 525196 donor id: 23719. origin: Australia. cultivar: OWLET. Cultivar. Seed.

PI 525197 donor id: 23754. origin: Australia. cultivar: MUIR. Cultivar. Seed.

PI 525198 donor id: 23824. origin: Australia. cultivar: DOLLARBIRD. Cultivar. Seed.

PI 525199 to 525202. *Hordeum vulgare* L. POACEAE Barley

Donated by: Laboratoire de L'Orge, Station D'Amelioraton Des Plantes, I.N.R.A. Domaine de Crouelle, F-63039, Clermont Ferrand, Cedex, France. Received January 17, 1988.

PI 525199 origin: France. cultivar: BEATRICE. Cultivar. Seed.

PI 525200 origin: France. cultivar: CLERIX. Cultivar. Seed.

PI 525201 origin: France. cultivar: CYTRIS. Cultivar. Seed.

PI 525202 origin: France. cultivar: THEMIS. Cultivar. Seed.

PI 525203 to 525207. *Secale cereale* L. POACEAE Rye

Donated by: Guarino, L., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 09, 1987.

- PI 525203 donor id: 1241. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1241. locality: Ait Oudinar, 20km N of Boumalne. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 1700m. remarks: Contaminant in 1240. Wild. Seed.
- PI 525204 donor id: 1279. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1279. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1600m. remarks: Only grown in area a few years. Wild. Seed.
- PI 525205 donor id: 1284. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1284. locality: Poor crop on rocky slope. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 2300m. Wild. Seed.
- PI 525206 donor id: 1370. origin: Morocco. collected: July 16, 1985. collector: L. Guarino. collector id: 1370. locality: Sea side, River valley between M'ter and Bou Ahmed. latitude: 35 deg. N. longitude: 5 deg. W. elevation: 100m. Wild. Seed.
- PI 525207 donor id: 1374. origin: Morocco. collected: July 16, 1985. collector: L. Guarino. collector id: 1374. locality: Hill by sea, near Sebta. latitude: 35 deg. 5 min. N. longitude: 5 deg. 5 min. W. elevation: 50m. Wild. Seed.

PI 525208 to 525332. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Guarino, L., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 09, 1987.

- PI 525208 donor id: 1002. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1002. locality: Harvested stacks just outside Bou-Izakarn. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 500m. Wild. Seed.
- PI 525209 donor id: 1003. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1003. locality: Field, INRA Station, Taggant. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 500m. remarks: Contaminant in barley. Wild. Seed.

PI 525208 to 525332-continued

- PI 525210 donor id: 1004a. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1004a. locality: Field, Guelmine. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 200m. Wild. Seed.
- PI 525211 donor id: 1004b. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1004b. locality: Field, Guelmine. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 200m. Wild. Seed.
- PI 525212 donor id: 1004c. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1004c. locality: Field, Guelmine. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 200m. remarks: Mixture. Wild. Seed.
- PI 525213 donor id: 1006. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1006. locality: Village stack, near Asrir. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 200m. Wild. Seed.
- PI 525214 donor id: 1010. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1010. locality: Field, 2-3km S of Fask. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 300m. Wild. Seed.
- PI 525215 donor id: 1011a. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1011a. locality: Flood plan, loam, 5km S of Guelmine. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 200m. remarks: Lax, awnless. Wild. Seed.
- PI 525216 donor id: 1012a. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1012a. locality: Village stack, Tanghgigt oasis. latitude: 29 deg. N. longitude: 9 deg. W. elevation: 500m. remarks: Contaminant in barley. Wild. Seed.
- PI 525217 donor id: 1012b. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1012b. locality: Village stack, Tanghgigt oasis. latitude: 29 deg. N. longitude: 9 deg. W. elevation: 500m. remarks: Heads compact. Club type. Wild. Seed.
- PI 525218 donor id: 1015a. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1015a. locality: Two fields, Aguerd oasis. latitude: 29 deg. N. longitude: 9 deg. W. elevation: 600m. remarks: Club type. Wild. Seed.

PI 525208 to 525332-continued

- PI 525219 donor id: 1018b. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1018b. locality: Village stack, Oua-Belli oasis. latitude: 29 deg. N. longitude: 9 deg. W. elevation: 450m. remarks: Club type. Wild. Seed.
- PI 525220 donor id: 1018c. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1018c. locality: Village stack, Oua-Belli oasis. latitude: 29 deg. N. longitude: 9 deg. W. elevation: 450m. remarks: Very lax. Wild. Seed.
- PI 525221 donor id: 1018d. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1018d. locality: Village stack, Oua-Belli oasis. latitude: 29 deg. N. longitude: 9 deg. W. elevation: 450m. remarks: Mixture. Wild. Seed.
- PI 525222 donor id: 1019a. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1019a. locality: Small, isolated field, 10km S of Tiggan. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 500m. remarks: Mixture. Wild. Seed.
- PI 525223 donor id: 1019b. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1019b. locality: Small, isolated field, 10km S of Tiggan. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 500m. Wild. Seed.
- PI 525224 donor id: 1021. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1021. locality: Village stack, Tigane oasis. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 500m. remarks: Spikes thin, lax. Wild. Seed.
- PI 525225 donor id: 1023. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1023. locality: Village stack, outside Azzargazzane, Tougria oasis. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 600m. Wild. Seed.
- PI 525226 donor id: 1028a. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1028a. locality: Village stack, Tata main oasis. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 700m. remarks: Mixture. Wild. Seed.

PI 525208 to 525332-continued

- PI 525227 donor id: 1028b. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1028b. locality: Village stack, Tata main oasis. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 700m. remarks: Mixture. Wild. Seed.
- PI 525228 donor id: 1031a. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1031a. locality: Village stack, Akka-Iguiren oasis. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 600m. remarks: Two spikes only. Contaminant in barley. Wild. Seed.
- PI 525229 donor id: 1033. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1033. locality: Village stack, Kasba-ej-joua oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 600m. remarks: Club type. Wild. Seed.
- PI 525230 donor id: 1035b. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1035b. locality: Village stacks, Trhite oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 600m. remarks: Club type. Wild. Seed.
- PI 525231 donor id: 1035c. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1035c. locality: Village stacks, Trhite oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 600m. remarks: Very lax type. Wild. Seed.
- PI 525232 donor id: 1035d. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1035d. locality: Village stacks, Trhite oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 600m. remarks: Mixture. Wild. Seed.
- PI 525233 donor id: 1037a. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1037a. locality: Field in Tamarix thicket, with saline deposit on soil surface, Oued Mellah. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 450m. remarks: Club type. Wild. Seed.
- PI 525234 donor id: 1037c. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1037c. locality: Field in Tamarix thicket, with saline deposit on soil surface, Oued Mellah. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 450m. remarks: Compact, awned type. Wild. Seed.

PI 525208 to 525332-continued

- PI 525235 donor id: 1037d. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1037d. locality: Field in Tamarix thicket, with saline deposit on soil surface, Oued Mellah. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 450m. remarks: Compact, awnless. Wild. Seed.
- PI 525236 donor id: 1037e. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1037e. locality: Field in Tamarix thicket, with saline deposit on soil surface, Oued Mellah. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 450m. remarks: Lax type. Wild. Seed.
- PI 525237 donor id: 1040a. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1040a. locality: Foum-Zguid oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 550m. remarks: Club type. Wild. Seed.
- PI 525238 donor id: 1040c. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1040c. locality: Foum-Zguid oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 550m. remarks: Mixture. Wild. Seed.
- PI 525239 donor id: 1040d. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1040d. locality: Foum-Zguid oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 550m. Wild. Seed.
- PI 525240 donor id: 1043. origin: Morocco. collected: May 06, 1985. collector: L. Guarino. collector id: 1043. locality: Near Oued, Dar Laharss. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 1200m. remarks: Spikes large, compact. Wild. Seed.
- PI 525241 donor id: 1049. origin: Morocco. collected: May 06, 1985. collector: L. Guarino. collector id: 1049. locality: Farm stack, 20km W of Zagora, near Douar, Bayad. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 900m. remarks: Club type. Wild. Seed.
- PI 525242 donor id: 1050. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1050. locality: Village stack, Oued Draa, near Amzrou, Sert. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 700m. remarks: Club type. Wild. Seed.

PI 525208 to 525332-continued

- PI 525243 donor id: 1053a. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1053a. locality: Village stack, Oued Draa, Tamgrout. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 600m. remarks: Club type. Wild. Seed.
- PI 525244 donor id: 1053b. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1053b. locality: Village stack, Oued Draa, Tamgrout. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 600m. remarks: Spikes linear, lax. Wild. Seed.
- PI 525245 donor id: 1053c. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1053c. locality: Village stack, Oued Draa, Tamgrout. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 600m. remarks: Mixture. Wild. Seed.
- PI 525246 donor id: 1054a. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1054a. locality: Oued Oraa, Tagounite. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 600m. remarks: Club type, green. Wild. Seed.
- PI 525247 donor id: 1054b. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1054b. locality: Oued Oraa, Tagounite. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 600m. remarks: Spikes linear, lax, green. Wild. Seed.
- PI 525248 donor id: 1056. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1056. locality: 15km N of Mhamid, Oued Draa, Ouled Driss. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 600m. remarks: Mixture. Wild. Seed.
- PI 525249 donor id: 1059. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1059. locality: 90km N of Mhamid, Zaouia. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 600m. remarks: Club type. Wild. Seed.
- PI 525250 donor id: 1060. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1060. locality: Village stack, Amzrou. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 700m. remarks: Club type. Wild. Seed.

PI 525208 to 525332-continued

- PI 525251 donor id: 1062. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1062. locality: Village stacks, 3km N of Zagora, Asrir. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 700m. remarks: Club type. Wild. Seed.
- PI 525252 donor id: 1064. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1064. locality: Village stacks, 30km NW of Zagora, Tarzout. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 700m. remarks: Club type. Wild. Seed.
- PI 525253 donor id: 1066. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1066. locality: Village stacks, Oued Draa, Tinzoulina. latitude: 30 deg. N. longitude: 6 deg. W. elevation: 800m. remarks: Mixture. Wild. Seed.
- PI 525254 donor id: 1068a. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1068a. locality: Village stacks, Oued Draa, Duled Slimane. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 800m. remarks: Compact type. Wild. Seed.
- PI 525255 donor id: 1068b. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1068b. locality: Village stacks, Oued Draa, Duled Slimane. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 800m. remarks: Lax type. Wild. Seed.
- PI 525256 donor id: 1070a. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1070a. locality: Village stacks, Oued Draa, Tanskit. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 850m. Wild. Seed.
- PI 525257 donor id: 1070b. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1070b. locality: Village stacks, Oued Draa, Tanskit. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 850m. Wild. Seed.
- PI 525258 donor id: 1070c. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1070c. locality: Village stacks, Oued Draa, Tanskit. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 850m. remarks: Spikes lax, awnless. Wild. Seed.



PI 525208 to 525332-continued

- PI 525259 donor id: 1073a. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1073a. locality: Village stacks, Oued Draa, Ouriz. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 900m. remarks: Club type. Wild. Seed.
- PI 525260 donor id: 1076. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1076. locality: Village stacks, 15km W of Skoura, Ait Lisan. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 1150m. Wild. Seed.
- PI 525261 donor id: 1080. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1080. locality: 5km E of Imiter, Timadriouine. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 1300m. remarks: Contaminant in barley. Wild. Seed.
- PI 525262 donor id: 1083a. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1083a. locality: Sandy soil, field W of Tinejdad. latitude: 31 deg. N. longitude: 5 deg. W. elevation: 900m. remarks: Club type. Wild. Seed.
- PI 525263 donor id: 1086a. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1086a. locality: Sandy soil, 10km E of Tinejdad. latitude: 31 deg. N. longitude: 5 deg. W. elevation: 900m. remarks: Mixture of non-club types. Wild. Seed.
- PI 525264 donor id: 1086b. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1086b. locality: Sandy soil, 10km E of Tinejdad. latitude: 31 deg. N. longitude: 5 deg. W. elevation: 900m. remarks: Club type. Wild. Seed.
- PI 525265 donor id: 1089a. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1089a. locality: Sandy soil, field, Mellab. latitude: 31 deg. N. longitude: 5 deg. W. elevation: 800m. remarks: Club type, compact. Wild. Seed.
- PI 525266 donor id: 1093. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1093. locality: Large set of stacks, Fezna oasis. latitude: 31 deg. N. longitude: 4 deg. W. elevation: 740m. remarks: Club type. Wild. Seed.

PI 525208 to 525332-continued

- PI 525267 donor id: 1097. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1097. locality: Large set of stacks, Jorf oasis. latitude: 31 deg. N. longitude: 4 deg. W. elevation: 750m. Wild. Seed.
- PI 525268 donor id: 1100a. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1100a. locality: Sifa oasis, S of Erfoud, Oued Ziz. latitude: 31 deg. N. longitude: 4 deg. W. elevation: 700m. remarks: Spikes, linear, awned. Wild. Seed.
- PI 525269 donor id: 1100b. origin: Morocco. collected: August 05, 1985. collector: L. Guarino. collector id: 1100b. locality: Sifa oasis, S of Erfoud, Oued Ziz. latitude: 31 deg. N. longitude: 4 deg. W. elevation: 700m. remarks: Spikes, linear, awned. Wild. Seed.
- PI 525270 donor id: 1100c. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1100c. locality: Sifa oasis, S of Erfoud, Oued Ziz. latitude: 31 deg. N. longitude: 4 deg. W. elevation: 700m. remarks: Spikes, linear, awnless. Wild. Seed.
- PI 525271 donor id: 1104. origin: Morocco. collected: May 09, 1985. collector: L. Guarino. collector id: 1104. locality: Large set of stacks, Aofus oasis. latitude: 32 deg. N. longitude: 4 deg. W. elevation: 800m. Wild. Seed.
- PI 525272 donor id: 1107. origin: Morocco. collected: May 12, 1985. collector: L. Guarino. collector id: 1107. locality: Large field belonging to King, near Merchouch. latitude: 34 deg. N. longitude: 7 deg. W. elevation: 450m. remarks: Awnless. Wild. Seed.
- PI 525273 donor id: 1110. origin: Morocco. collected: May 12, 1985. collector: L. Guarino. collector id: 1110. locality: Field. latitude: 33 deg. N. longitude: 7 deg. W. elevation: 400m. Wild. Seed.
- PI 525274 donor id: 1113. origin: Morocco. collected: May 12, 1985. collector: L. Guarino. collector id: 1113. locality: Near Boulaouana. latitude: 33 deg. N. longitude: 8 deg. W. elevation: 150m. remarks: Mixture. Wild. Seed.
- PI 525275 donor id: 1114. origin: Morocco. collected: May 12, 1985. collector: L. Guarino. collector id: 1114. locality: Near Boulaouana. latitude: 33 deg. N. longitude: 8 deg. W. elevation: 150m. remarks: Mixture. Wild. Seed.

PI 525208 to 525332-continued

- PI 525276 donor id: 1117. origin: Morocco. collected: May 12, 1985. collector: L. Guarino. collector id: 1117. locality: Near Had-Bkhati. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 100m. remarks: Mixture. Wild. Seed.
- PI 525277 donor id: 1118. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1118. locality: Sea coast, Rhozia. latitude: 32 deg. N. longitude: 9 deg. W. Wild. Seed.
- PI 525278 donor id: 1120. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1120. locality: Sea coast, Oulad Bouzid Sahel. latitude: 32 deg. N. longitude: 9 deg. W. Wild. Seed.
- PI 525279 donor id: 1122. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1122. locality: 5km N of Talmest. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 100m. Wild. Seed.
- PI 525280 donor id: 1127. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1127. locality: 2km S of Ain el Hajer. latitude: 32 deg. N. longitude: 9 deg. W. Wild. Seed.
- PI 525281 donor id: 1128. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1128. locality: Forest area, Smimou, Argania. latitude: 31 deg. N. longitude: 10 deg. W. elevation: 200m. Wild. Seed.
- PI 525282 donor id: 1130. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1130. locality: Near Tnine. latitude: 31 deg. N. longitude: 10 deg. W. elevation: 350m. remarks: Awnless. Wild. Seed.
- PI 525283 donor id: 1137. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1137. locality: 15km W of Chichaoua. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 350m. remarks: Mixture. Wild. Seed.
- PI 525284 donor id: 1139. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1139. locality: Chichaoua. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 300m. remarks: Mixture. Wild. Seed.

PI 525208 to 525332-continued

- PI 525285 donor id: 1140. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1140. locality: 15km N of Chichaoua. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 200m. Wild. Seed.
- PI 525286 donor id: 1144. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1144. locality: 25km S of Chemaia. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 200m. Wild. Seed.
- PI 525287 donor id: 1145. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1145. locality: 25km S of Chemaia. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 200m. remarks: Spikes red. Wild. Seed.
- PI 525288 donor id: 1148. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1148. locality: 50km S of Borouj. latitude: 32 deg. N. longitude: 7 deg. W. elevation: 300m. remarks: Evidence of strong drought stress. Wild. Seed.
- PI 525289 donor id: 1152. origin: Morocco. collected: May 15, 1985. collector: L. Guarino. collector id: 1152. locality: Near Tiddas. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 550m. Wild. Seed.
- PI 525290 donor id: 1153. origin: Morocco. collected: May 15, 1985. collector: L. Guarino. collector id: 1153. locality: 2km S of Tiddas. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 600m. Wild. Seed.
- PI 525291 donor id: 1154. origin: Morocco. collected: May 15, 1985. collector: L. Guarino. collector id: 1154. locality: 30km NW of Kheni Fra. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 900m. remarks: Awnless. Wild. Seed.
- PI 525292 donor id: 1155. origin: Morocco. collected: May 15, 1985. collector: L. Guarino. collector id: 1155. locality: 30km NW of Kheni Fra. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 900m. Wild. Seed.
- PI 525293 donor id: 1157. origin: Morocco. collected: May 15, 1985. collector: L. Guarino. collector id: 1157. locality: Boudnib oasis. latitude: 32 deg. N. longitude: 4 deg. W. elevation: 900m. Wild. Seed.

PI 525208 to 525332-continued

- PI 525294 donor id: 1159. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1159. locality: Large set of stacks, Boudnib. latitude: 32 deg. N. longitude: 4 deg. W. elevation: 900m. Wild. Seed.
- PI 525295 donor id: 1162. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1162. locality: Field, Sahli. latitude: 32 deg. N. longitude: 3 deg. W. elevation: 850m. remarks: Club type. Wild. Seed.
- PI 525296 donor id: 1163. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1163. locality: Field, Sahli. latitude: 32 deg. N. longitude: 3 deg. W. elevation: 850m. remarks: Spikes linear. Wild. Seed.
- PI 525297 donor id: 1164. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1164. locality: Large set of stacks, near Sahli. latitude: 32 deg. N. longitude: 3 deg. W. elevation: 900m. remarks: Spikes linear. Wild. Seed.
- PI 525298 donor id: 1165. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1165. locality: Large set of stacks, near Sahli. latitude: 32 deg. N. longitude: 3 deg. W. elevation: 900m. remarks: Club type. Wild. Seed.
- PI 525299 donor id: 1170. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1170. locality: Oasis, 12km W of Bounane, Sidi Almed. latitude: 32 deg. N. longitude: 3 deg. W. elevation: 800m. remarks: Spikes lax. Wild. Seed.
- PI 525300 donor id: 1171. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1171. locality: Oasis, 12km W of Bounane, Sidi Almed. latitude: 32 deg. N. longitude: 3 deg. W. elevation: 800m. remarks: Club type. Wild. Seed.
- PI 525301 donor id: 1173. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1173. locality: 10km W of Ain Chair, Wadi Bed. latitude: 32 deg. N. longitude: 3 deg. W. elevation: 800m. remarks: Spikes linear. Awnes short or awnless. Wild. Seed.

PI 525208 to 525332-continued

- PI 525302 donor id: 1181. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1181. locality: Figuig oasis. latitude: 32 deg. N. longitude: 1 deg. W. elevation: 800m. remarks: Lax, awned. Wild. Seed.
- PI 525303 donor id: 1184. origin: Morocco. collected: May 17, 1985. collector: L. Guarino. collector id: 1184. locality: 3-4km S of Guenfouda. latitude: 34 deg. N. longitude: 2 deg. W. elevation: 850m. Wild. Seed.
- PI 525304 donor id: 1189. origin: Morocco. collected: May 17, 1985. collector: L. Guarino. collector id: 1189. locality: Near Berkane. latitude: 35 deg. N. longitude: 2 deg. W. elevation: 50m. Wild. Seed.
- PI 525305 donor id: 1191. origin: Morocco. collected: May 18, 1985. collector: L. Guarino. collector id: 1191. locality: Taounata. latitude: 35 deg. N. longitude: 5 deg. W. elevation: 650m. remarks: Awnless. Wild. Seed.
- PI 525306 donor id: 1196. origin: Morocco. collected: July 05, 1985. collector: L. Guarino. collector id: 1196. locality: Market, Ida-ou-Gnidf. latitude: 30 deg. N. longitude: 9 deg. W. elevation: 1100m. remarks: Volunteer in barley field. Wild. Seed.
- PI 525307 donor id: 1197. origin: Morocco. collected: July 05, 1985. collector: L. Guarino. collector id: 1197. locality: Market, Ida-ou-Gnidf. latitude: 30 deg. N. longitude: 9 deg. W. elevation: 1100m. remarks: Volunteer in barley field. Spikes linear. Wild. Seed.
- PI 525308 donor id: 1209. origin: Morocco. collected: July 06, 1985. collector: L. Guarino. collector id: 1209. locality: Iminougri, near Tailouina, bu oued. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 800m. remarks: Volunteer in barley field. Spikes linear. Wild. Seed.
- PI 525309 donor id: 1213. origin: Morocco. collected: July 06, 1985. collector: L. Guarino. collector id: 1213. locality: Farm store, W of Aoulouz, Dulda Berrehil. latitude: 31 deg. N. longitude: 8 deg. W. elevation: 500m. Wild. Seed.
- PI 525310 donor id: 1229. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1229. locality: Field, Oued. latitude: 31 deg. N. longitude: 7 deg. W. elevation: 2100m. remarks: Plants tall. Spikes large, lax. Wild. Seed.

PI 525208 to 525332-continued

- PI 525311 donor id: 1232. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1232. locality: Oued Dades valley, Amerzagane. latitude: 31 deg. N. longitude: 7 deg. W. elevation: 1400m. remarks: Club type. Wild. Seed.
- PI 525312 donor id: 1234. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1234. locality: 7km NW of Ourzazate, Isfoutelil oasis. latitude: 31 deg. N. longitude: 7 deg. W. elevation: 1300m. Wild. Seed.
- PI 525313 donor id: 1237. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1237. locality: 5km SW of Boumalne. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 1600m. remarks: Club type. Wild. Seed.
- PI 525314 donor id: 1245. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1245. locality: Valley bottom, 5km S of Ait Hani. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1900m. Wild. Seed.
- PI 525315 donor id: 1247. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1247. locality: Flat valley bottom, Ait Hani. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 2000m. remarks: Awnless. Wild. Seed.
- PI 525316 donor id: 1248. origin: Morocco. local name: Helics. collected: July 08, 1985. collector: L. Guarino. collector id: 1248. locality: Flat valley bottom, Ait Hani. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 2000m. Wild. Seed.
- PI 525317 donor id: 1250. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1250. locality: Flat valley bottom, Ait Hani. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 2000m. remarks: Spikes thin, lax, awned. Local type. Wild. Seed.
- PI 525318 donor id: 1254. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1254. locality: Oak scrub area, 16km N of Imilchil. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 2000m. remarks: Awns black. Wild. Seed.

PI 525208 to 525332-continued

- PI 525319 donor id: 1271. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1271. locality: 25km N of Tiloguite. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1850m. remarks: Moderately lax, awned. Wild. Seed.
- PI 525320 donor id: 1278. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1278. locality: Forest clearing by brook, just N of Zaouia. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1600m. Wild. Seed.
- PI 525321 donor id: 1282. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1282. locality: Brookside, Zaouia. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1500m. Wild. Seed.
- PI 525322 donor id: 1286. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1286. locality: Rocky slope. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 3200m. remarks: Awnless. Wild. Seed.
- PI 525323 donor id: 1308. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1308. locality: Large heterogeneous field, steep NW-facing slope, Ouelmes. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 1100m. Wild. Seed.
- PI 525324 donor id: 1339. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1339. locality: Near Tizi Ousli. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1300m. Wild. Seed.
- PI 525325 donor id: 1342. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1342. locality: Almond orchard by stream, N of Aknoul. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1200m. Wild. Seed.
- PI 525326 donor id: 1359. origin: Morocco. collected: July 16, 1985. collector: L. Guarino. collector id: 1359. locality: Valley side, 5km N of Taounate, Imarzen. latitude: 35 deg. N. longitude: 5 deg. W. elevation: 600m. remarks: Awnless. Wild. Seed.
- PI 525327 donor id: 1361. origin: Morocco. collected: July 16, 1985. collector: L. Guarino. collector id: 1361. locality: Hillside, El Lbabr. latitude: 35 deg. N. longitude: 5 deg. W. elevation: 900m. remarks: Awnless. Wild. Seed.



PI 525208 to 525332-continued

- PI 525328 donor id: 1364. origin: Morocco. collected: July 16, 1985. collector: L. Guarino. collector id: 1364. locality: Top of rocky mountain side, near Ketama. latitude: 35 deg. N. longitude: 5 deg. W. elevation: 1600m. Wild. Seed.
- PI 525329 donor id: 1377. origin: Morocco. collected: July 17, 1985. collector: L. Guarino. collector id: 1377. locality: Hillside by sea, 10km W of Sebta, Chicha. latitude: 36 deg. N. longitude: 5 deg. 5 min. W. elevation: 200m. Wild. Seed.
- PI 525330 donor id: 1380. origin: Morocco. collected: July 17, 1985. collector: L. Guarino. collector id: 1380. latitude: 36 deg. N. longitude: 5 deg. 5 min. W. Wild. Seed.
- PI 525331 donor id: 1383. origin: Morocco. collected: July 17, 1985. collector: L. Guarino. collector id: 1383. locality: Hillside by sea, near Ksar Shrir. latitude: 36 deg. N. longitude: 5 deg. 5 min. W. Wild. Seed.
- PI 525332 donor id: 1384. origin: Morocco. collected: July 17, 1985. collector: L. Guarino. collector id: 1384. locality: Valley side of sea, 5km W of Ksar Shrir. latitude: 36 deg. N. longitude: 5 deg. 5 min. W. Wild. Seed.

PI 525333 to 525438. *Triticum durum* Desf. POACEAE Durum wheat

Donated by: Guarino, L., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 09, 1987.

- PI 525333 donor id: 1005. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1005. locality: Field, Guelmine. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 200m. Wild. Seed.
- PI 525334 donor id: 1008. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1008. locality: Village stack, near Asrir. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 200m. Wild. Seed.
- PI 525335 donor id: 1011b. origin: Morocco. collected: May 03, 1985. collector: L. Guarino. collector id: 1011b. locality: Flood plain loam, 5km S of Guelmine. latitude: 29 deg. N. longitude: 10 deg. W. elevation: 200m. Wild. Seed.

PI 525333 to 525438-continued

- PI 525336 donor id: 1013. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1013. locality: Village stack, Taghgigt oasis. latitude: 29 deg. N. longitude: 9 deg. W. elevation: 500m. Wild. Seed.
- PI 525337 donor id: 1015b. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1015b. locality: Two fields, Agued oasis. latitude: 29 deg. N. longitude: 9 deg. W. elevation: 600m. remarks: Three spikes. Wild. Seed.
- PI 525338 donor id: 1018a. origin: Morocco. collected: May 04, 1985. collector: L. Guarino. collector id: 1018a. locality: Village stack, Ouz-Belli oasis. latitude: 29 deg. N. longitude: 9 deg. W. elevation: 450m. remarks: Early type. Wild. Seed.
- PI 525339 donor id: 1029. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1029. locality: Village stack, Tata main oasis. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 700m. Wild. Seed.
- PI 525340 donor id: 1031b. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1031b. locality: Village stack, Akka-Iguiren oasis. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 600m. remarks: Two spikes. Wild. Seed.
- PI 525341 donor id: 1034. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1034. locality: Village stack, Kasba-ej-joua oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 600m. remarks: Two spikes. Wild. Seed.
- PI 525342 donor id: 1035a. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1035a. locality: Village stacks, Trhite oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 600m. remarks: Spikes large. Awns black. Wild. Seed.
- PI 525343 donor id: 1037b. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1037b. locality: Field in Tamarix thicket, with saline deposit on soil surface, Oued Mellah. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 450m. remarks: Awns compact, black. Wild. Seed.

PI 525333 to 525438-continued

- PI 525344 donor id: 1040b. origin: Morocco. collected: May 05, 1985. collector: L. Guarino. collector id: 1040b. locality: Foum-Zguid oasis. latitude: 30 deg. N. longitude: 7 deg. W. elevation: 550m. remarks: Awned, compact, black. Wild. Seed.
- PI 525345 donor id: 1072. origin: Morocco. collected: May 07, 1985. collector: L. Guarino. collector id: 1072. locality: Village stacks, Tanskit, Oued Draa. latitude: 31 deg. N. longitude: 6 deg. W. elevation: 850m. Wild. Seed.
- PI 525346 donor id: 1083c. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1083c. locality: Sandy soil, field, W of Tinejdad. latitude: 31 deg. N. longitude: 5 deg. W. elevation: 900m. remarks: Awned black. Wild. Seed.
- PI 525347 donor id: 1084. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1084. locality: Sandy soil, field, W of Tinejdad. latitude: 31 deg. N. longitude: 5 deg. W. elevation: 900m. Wild. Seed.
- PI 525348 donor id: 1087. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1087. locality: Sandy soil, 10km E of Tinejdad. latitude: 31 deg. N. longitude: 5 deg. W. elevation: 900m. Wild. Seed.
- PI 525349 donor id: 1090. origin: Morocco. collected: August 05, 1985. collector: L. Guarino. collector id: 1090. locality: Sandy soil, field, Mellab. latitude: 31 deg. N. longitude: 5 deg. W. elevation: 800m. Wild. Seed.
- PI 525350 donor id: 1094. origin: Morocco. collected: May 08, 1985. collector: L. Guarino. collector id: 1094. locality: Large set of stacks, Fezna oasis. latitude: 31 deg. N. longitude: 4 deg. W. elevation: 750m. remarks: Club types. Wild. Seed.
- PI 525351 donor id: 1102. origin: Morocco. collected: May 09, 1985. collector: L. Guarino. collector id: 1102. locality: Field stack outside main oasis, 3km S of Aofus. latitude: 32 deg. N. longitude: 4 deg. W. elevation: 750m. Wild. Seed.
- PI 525352 donor id: 1112. origin: Morocco. collected: May 12, 1985. collector: L. Guarino. collector id: 1112. locality: 5km E of Boulaouane. latitude: 33 deg. N. longitude: 8 deg. W. elevation: 150m. Wild. Seed.

PI 525333 to 525438-continued

- PI 525353 donor id: 1115. origin: Morocco. collected: May 12, 1985. collector: L. Guarino. collector id: 1115. locality: 15km W of Sidi Bennour. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 100m. Wild. Seed.
- PI 525354 donor id: 1116. origin: Morocco. collected: May 12, 1985. collector: L. Guarino. collector id: 1116. locality: 15km W of Sidi Bennour. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 100m. Wild. Seed.
- PI 525355 donor id: 1121. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1121. locality: Coast, near Jorf-el-Yhoudi. latitude: 32 deg. N. longitude: 9 deg. W. Wild. Seed.
- PI 525356 donor id: 1124. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1124. locality: Near Akermoud. latitude: 32 deg. N. longitude: 9 deg. W. Wild. Seed.
- PI 525357 donor id: 1125. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1125. locality: Sandy soil, near Akermoud, Ain el Hajer. latitude: 32 deg. N. longitude: 9 deg. W. Wild. Seed.
- PI 525358 donor id: 1126. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1126. locality: Sandy soil, near Akermoud, Ain el Hajer. latitude: 32 deg. N. longitude: 9 deg. W. remarks: Spikes compact. Wild. Seed.
- PI 525359 donor id: 1129. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1129. locality: 2km E of Argania forest area, Smimou. latitude: 31 deg. N. longitude: 10 deg. W. elevation: 300m. Wild. Seed.
- PI 525360 donor id: 1132. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1132. locality: Near Tnine. latitude: 31 deg. N. longitude: 10 deg. W. elevation: 400m. Wild. Seed.
- PI 525361 donor id: 1134. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1134. locality: Near Tnine. latitude: 31 deg. N. longitude: 10 deg. W. elevation: 300m. Wild. Seed.
- PI 525362 donor id: 1135. origin: Morocco. collected: May 13, 1985. collector: L. Guarino. collector id: 1135. locality: Near Ounara. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 150m. Wild. Seed.

PI 525333 to 525438-continued

- PI 525363 donor id: 1141. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1141. locality: 15km N of Chichaoua. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 200m. Wild. Seed.
- PI 525364 donor id: 1143. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1143. locality: 30km S of Chemaia. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 200m. Wild. Seed.
- PI 525365 donor id: 1146. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1146. locality: Near Chemaia. latitude: 32 deg. N. longitude: 9 deg. W. elevation: 300m. remarks: Mixture. Wild. Seed.
- PI 525366 donor id: 1147. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1147. locality: 10km W of Ben Guerir. latitude: 32 deg. N. longitude: 8 deg. W. elevation: 400m. remarks: Mixture. Wild. Seed.
- PI 525367 donor id: 1149. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1149. locality: 50km S of Borouj. latitude: 32 deg. N. longitude: 7 deg. W. elevation: 300m. remarks: Mixture. Wild. Seed.
- PI 525368 donor id: 1150. origin: Morocco. collected: May 14, 1985. collector: L. Guarino. collector id: 1150. locality: 20km N of Oued Zem. latitude: 32 deg. N. longitude: 7 deg. W. elevation: 750m. Wild. Seed.
- PI 525369 donor id: 1156. origin: Morocco. collected: May 15, 1985. collector: L. Guarino. collector id: 1156. locality: Near El-Kbab. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 900m. Wild. Seed.
- PI 525370 donor id: 1176. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1176. locality: Near Mengoub. latitude: 32 deg. N. longitude: 3 deg. W. elevation: 900m. Wild. Seed.
- PI 525371 donor id: 1182. origin: Morocco. collected: May 16, 1985. collector: L. Guarino. collector id: 1182. locality: Figuig oasis. latitude: 32 deg. N. longitude: 1 deg. W. elevation: 800m. remarks: Mixture. Wild. Seed.

PI 525333 to 525438-continued

- PI 525372 donor id: 1186. origin: Morocco. collected: May 17, 1985. collector: L. Guarino. collector id: 1186. locality: Near Ahfir. latitude: 35 deg. N. longitude: 2 deg. W. elevation: 200m. Wild. Seed.
- PI 525373 donor id: 1190. origin: Morocco. collected: May 17, 1985. collector: L. Guarino. collector id: 1190. locality: Market, near Zaio. latitude: 35 deg. N. longitude: 3 deg. W. elevation: 150m. Wild. Seed.
- PI 525374 donor id: 1208. origin: Morocco. collected: July 06, 1985. collector: L. Guarino. collector id: 1208. locality: Iminougri, near Tailouina, Bu Oued. latitude: 30 deg. N. longitude: 8 deg. W. elevation: 800m. Wild. Seed.
- PI 525375 donor id: 1211. origin: Morocco. collected: July 06, 1985. collector: L. Guarino. collector id: 1211. locality: West of Aoulouz, Oulda Berrehil. latitude: 31 deg. N. longitude: 8 deg. W. elevation: 500m. Wild. Seed.
- PI 525376 donor id: 1212. origin: Morocco. collected: July 06, 1985. collector: L. Guarino. collector id: 1212. locality: Farm store, W of Aoulouz, Dulda Berrehil. latitude: 31 deg. N. longitude: 8 deg. W. elevation: 500m. Wild. Seed.
- PI 525377 donor id: 1214. origin: Morocco. collected: July 06, 1985. collector: L. Guarino. collector id: 1214. locality: West of Aoulouz, Oulda Berrehil. latitude: 31 deg. N. longitude: 8 deg. W. elevation: 500m. Wild. Seed.
- PI 525378 donor id: 1217. origin: Morocco. collected: July 06, 1985. collector: L. Guarino. collector id: 1217. locality: Irrigated valley bottom farm, 10km SW of Ijoukak. latitude: 31 deg. N. longitude: 8 deg. W. elevation: 1400m. Wild. Seed.
- PI 525379 donor id: 1221. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1221. locality: Market, near Toufilat, Ait Barka. latitude: 31 deg. N. longitude: 7 deg. W. elevation: 1400m. Wild. Seed.
- PI 525380 donor id: 1224. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1224. locality: Farm terraces at bottom of steep sided valley, 15km N of Taddert. latitude: 31 deg. N. longitude: 7 deg. W. elevation: 1400m. remarks: Awns black. Wild. Seed.

PI 525333 to 525438-continued

- PI 525381 donor id: 1225. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1225. locality: Farm terraces at bottom of steep sided valley, 15km N of Taddert. latitude: 31 deg. N. longitude: 7 deg. W. elevation: 1400m. remarks: Awns white. Wild. Seed.
- PI 525382 donor id: 1227. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1227. locality: Farm terraces at bottom of steep sided valley, 15km N of Taddert. latitude: 31 deg. N. longitude: 7 deg. W. elevation: 1500m. remarks: Awns black. Wild. Seed.
- PI 525383 donor id: 1230. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1230. locality: Mixed field, Oued. latitude: 31 deg. N. longitude: 7 deg. W. elevation: 2100m. remarks: Awns black. Wild. Seed.
- PI 525384 donor id: 1235. origin: Morocco. collected: July 07, 1985. collector: L. Guarino. collector id: 1235. locality: 7km NW of Ourzazate, Isfoutelil oasis. latitude: 31 deg. N. longitude: 7 deg. W. elevation: 1300m. Wild. Seed.
- PI 525385 donor id: 1244. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1244. locality: Valley bottom, 5km S of Ait Hani. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1900m. Wild. Seed.
- PI 525386 donor id: 1253. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1253. locality: Oak scrub area, 16km N of Imilchil. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 2000m. Wild. Seed.
- PI 525387 donor id: 1255. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1255. locality: Protected forest area, by stream, 16km N of Imilchil. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1900m. remarks: Mixture of black and white awned types. Wild. Seed.
- PI 525388 donor id: 1257. origin: Morocco. collected: August 07, 1985. collector: L. Guarino. collector id: 1257. locality: Large valley-bottom field, 5km N of Imilchil. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1600m. Wild. Seed.

PI 525333 to 525438-continued

- PI 525389 donor id: 1259. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1259. locality: Terra Rossa area, N side of Haut Atlas, Arhbala. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1700m. Wild. Seed.
- PI 525390 donor id: 1260. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1260. locality: Clearing in oak forest, 20km W of Arhbala. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1700m. Wild. Seed.
- PI 525391 donor id: 1261. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1261. locality: Clearing in oak forest, El-Ksiba. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1400m. remarks: Awns white. Wild. Seed.
- PI 525392 donor id: 1262. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1262. locality: Terra Rossa, S-facing slope, near Ouaouizarht. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1300m. Wild. Seed.
- PI 525393 donor id: 1263. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1263. locality: South of Ouaouizarht. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1000m. remarks: Intercropped with olives. Wild. Seed.
- PI 525394 donor id: 1264. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1264. locality: South of Ouaouizarht. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1000m. remarks: Mixture. Wild. Seed.
- PI 525395 donor id: 1268. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1268. locality: Valley side, steep facing slope, Ait Simour. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1650m. Wild. Seed.
- PI 525396 donor id: 1270. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1270. locality: Plateau, 25km N of Tilogguite. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1850m. Wild. Seed.



PI 525333 to 525438-continued

- PI 525397 donor id: 1273. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1273. locality: Steep E-facing slope, Tilougitte. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1400m. Wild. Seed.
- PI 525398 donor id: 1274. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1274. locality: Stream, 10km N of Zaouia-Ahansal. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1200m. Wild. Seed.
- PI 525399 donor id: 1275. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1275. locality: Clearing in pine/oak forest, 2km W of Zaouia-Ahansal. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1300m. Wild. Seed.
- PI 525400 donor id: 1277. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1277. locality: Clearing by brook, N of Zaouia. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1600m. Wild. Seed.
- PI 525401 donor id: 1281. origin: Morocco. collected: July 09, 1985. collector: L. Guarino. collector id: 1281. locality: Brookside, Zaouia. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1500m. remarks: Mixture. Wild. Seed.
- PI 525402 donor id: 1288. origin: Morocco. collected: July 10, 1985. collector: L. Guarino. collector id: 1288. locality: Hilly terrain near Azilal. latitude: 32 deg. N. longitude: 7 deg. W. elevation: 1400m. Wild. Seed.
- PI 525403 donor id: 1289. origin: Morocco. collected: July 10, 1985. collector: L. Guarino. collector id: 1289. locality: Ait-Taguella. latitude: 32 deg. N. longitude: 7 deg. W. elevation: 1200m. remarks: Intercropped with olives and almonds. Wild. Seed.
- PI 525404 donor id: 1291. origin: Morocco. collected: July 10, 1985. collector: L. Guarino. collector id: 1291. locality: Ouzoud. latitude: 32 deg. N. longitude: 7 deg. W. elevation: 900m. Wild. Seed.
- PI 525405 donor id: 1292. origin: Morocco. collected: July 10, 1985. collector: L. Guarino. collector id: 1292. locality: East of Tannant. latitude: 32 deg. N. longitude: 7 deg. W. elevation: 1200m. Wild. Seed.

PI 525333 to 525438-continued

- PI 525406 donor id: 1296. origin: Morocco. collected: July 10, 1985. collector: L. Guarino. collector id: 1296. locality: Near Ait-Ourir. latitude: 31 deg. N. longitude: 8 deg. W. elevation: 700m. remarks: Mixture. Wild. Seed.
- PI 525407 donor id: 1297. origin: Morocco. collected: July 10, 1985. collector: L. Guarino. collector id: 1297. locality: Jamait Aghmait. latitude: 31 deg. N. longitude: 8 deg. W. elevation: 1000m. remarks: Mixture. Wild. Seed.
- PI 525408 donor id: 1301. origin: Morocco. collected: July 10, 1985. collector: L. Guarino. collector id: 1301. locality: Marrakech oasis, Ouriki. latitude: 31 deg. N. longitude: 8 deg. W. elevation: 900m. Wild. Seed.
- PI 525409 donor id: 1303. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1303. locality: Hillside, Sidi Abbou. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 800m. Wild. Seed.
- PI 525410 donor id: 1306. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1306. locality: Steep NW-facing slope, large heterogeneous field, Ouelmes. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 1100m. Wild. Seed.
- PI 525411 donor id: 1307. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1307. locality: Steep NW-facing slope, large heterogeneous field, Ouelmes. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 1100m. Wild. Seed.
- PI 525412 donor id: 1309. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1309. locality: 30km SE of Ouelmes, Aguelmous. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 1200m. Wild. Seed.
- PI 525413 donor id: 1311. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1311. locality: 15km NW of Khenifra, near Ziar. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 1000m. Wild. Seed.
- PI 525414 donor id: 1312. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1312. locality: 15km NW of Khenifra, near Ziar. latitude: 33 deg. N. longitude: 6 deg. W. elevation: 1000m. remarks: Awns white. Wild. Seed.

PI 525333 to 525438-continued

- PI 525415 donor id: 1313. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1313. locality: Oak forest, 25km E of Khenifra. latitude: 33 deg. N. longitude: 5 deg. W. elevation: 1400m. Wild. Seed.
- PI 525416 donor id: 1315. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1315. locality: Oak forest, 25km E of Khenifra. latitude: 33 deg. N. longitude: 5 deg. W. elevation: 1400m. Wild. Seed.
- PI 525417 donor id: 1317. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1317. locality: 2-3km E of 1315, Ain Roubea. latitude: 33 deg. N. longitude: 5 deg. W. elevation: 1400m. Wild. Seed.
- PI 525418 donor id: 1319. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1319. locality: Forested valley, past Aguelmane springs. latitude: 33 deg. N. longitude: 5 deg. W. elevation: 1400m. Wild. Seed.
- PI 525419 donor id: 1321. origin: Morocco. collected: July 13, 1985. collector: L. Guarino. collector id: 1321. locality: 15km S of Ain Leuh. latitude: 33 deg. N. longitude: 5 deg. W. elevation: 1700m. Wild. Seed.
- PI 525420 donor id: 1324. origin: Morocco. collected: July 14, 1985. collector: L. Guarino. collector id: 1324. locality: Large area of cultivation on plateau, near Boulmane. latitude: 33 deg. N. longitude: 5 deg. W. elevation: 1700m. remarks: Awns white. Severe frost damage. Wild. Seed.
- PI 525421 donor id: 1325. origin: Morocco. collected: July 14, 1985. collector: L. Guarino. collector id: 1325. locality: Steep E-facing slope, near Ifkern. latitude: 33 deg. N. longitude: 4 deg. W. elevation: 1750m. Wild. Seed.
- PI 525422 donor id: 1332. origin: Morocco. collected: July 14, 1985. collector: L. Guarino. collector id: 1332. locality: Teggout oasis, S of Moyen Atlas. latitude: 33 deg. N. longitude: 4 deg. W. elevation: 800m. Wild. Seed.
- PI 525423 donor id: 1334. origin: Morocco. collected: July 14, 1985. collector: L. Guarino. collector id: 1334. locality: Taddint oasis, 25km SW of Oulad el Haj. latitude: 33 deg. N. longitude: 4 deg. W. elevation: 700m. Wild. Seed.

PI 525333 to 525438-continued

- PI 525424 donor id: 1336. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1336. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1000m. remarks: Mixture of black and white awned types. Wild. Seed.
- PI 525425 donor id: 1337. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1337. locality: By stream, Tizi Ousli. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1300m. Wild. Seed.
- PI 525426 donor id: 1338. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1338. locality: Near Tizi Ousli. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1300m. remarks: Mixture. Wild. Seed.
- PI 525427 donor id: 1341. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1341. locality: Almond orchard by stream, N of Aknoul. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1200m. Wild. Seed.
- PI 525428 donor id: 1345. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1345. locality: Hillside, near Boured. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1400m. Wild. Seed.
- PI 525429 donor id: 1349. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1349. locality: Between Boured and Tahar Souk, Nahnach. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1100m. remarks: Mixture of black and white awned types. Wild. Seed.
- PI 525430 donor id: 1350. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1350. locality: Hillside, between Boured and Tahar Souk. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1000m. Wild. Seed.
- PI 525431 donor id: 1352. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1352. locality: Hilltop, near Tahar Souk, Ain Benda. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1100m. Wild. Seed.
- PI 525432 donor id: 1356. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1356. locality: Extensive valley bottom, 15km W of Tahar Souk. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 500m. Wild. Seed.

PI 525333 to 525438-continued

- PI 525433 donor id: 1358. origin: Morocco. collected: July 16, 1985. collector: L. Guarino. collector id: 1358. locality: Valley side, 5km N of Taounate, Imarzen. latitude: 35 deg. N. longitude: 5 deg. W. elevation: 600m. Wild. Seed.
- PI 525434 donor id: 1372. origin: Morocco. collected: July 16, 1985. collector: L. Guarino. collector id: 1372. locality: River flood plain, Bou Ahmed. latitude: 35 deg. N. longitude: 5 deg. W. Wild. Seed.
- PI 525435 donor id: 1376. origin: Morocco. collected: July 17, 1985. collector: L. Guarino. collector id: 1376. locality: Hill by sea, near Sebta. latitude: 36 deg. N. longitude: 5 deg. 5 min. W. elevation: 100m. Wild. Seed.
- PI 525436 donor id: 1378. origin: Morocco. collected: July 17, 1985. collector: L. Guarino. collector id: 1378. locality: Hillside by sea, 10km W of Sebta, Chicha. latitude: 36 deg. N. longitude: 5 deg. 5 min. W. elevation: 200m. remarks: Awns black. Wild. Seed.
- PI 525437 donor id: 1381. origin: Morocco. collected: July 17, 1985. collector: L. Guarino. collector id: 1381. locality: Hillside by sea, near Ksar Shrir. latitude: 36 deg. N. longitude: 5 deg. 5 min. W. Wild. Seed.
- PI 525438 donor id: 1385. origin: Morocco. collected: July 17, 1985. collector: L. Guarino. collector id: 1385. locality: Valley by sea, 5km W of Ksar Shrir. latitude: 36 deg. N. longitude: 5 deg. 5 min. W. Wild. Seed.

PI 525439 to 525446. *Hordeum vulgare* L. POACEAE Barley

Donated by: Guarino, L., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 09, 1987.

- PI 525439 donor id: 1183b. origin: Morocco. collected: May 17, 1985. collector: L. Guarino. collector id: 1183b. locality: Irrigated, *Stipa tenacissima* steppe zone, Ain-Beni-Mathar. latitude: 34 deg. N. longitude: 2 deg. W. elevation: 900m. Wild. Seed.
- PI 525440 donor id: 1198a. origin: Morocco. collected: July 05, 1985. collector: L. Guarino. collector id: 1198a. locality: Large stacks, Khar-Fifilo. latitude: 30 deg. N. longitude: 9 deg. W. elevation: 1400m. Wild. Seed.

PI 525439 to 525446-continued

- PI 525441 donor id: 1198b. origin: Morocco. collected: July 05, 1985. collector: L. Guarino. collector id: 1198b. locality: Large stacks, Khar-Fifilo. latitude: 30 deg. N. longitude: 9 deg. W. elevation: 1400m. Wild. Seed.
- PI 525442 donor id: 1258. origin: Morocco. collected: July 08, 1985. collector: L. Guarino. collector id: 1258. locality: Large valley-bottom field, 5km N of Imilchil. latitude: 32 deg. N. longitude: 6 deg. W. elevation: 1600m. Wild. Seed.
- PI 525443 donor id: 1326. origin: Morocco. collected: July 14, 1985. collector: L. Guarino. collector id: 1326. locality: Stipa tenacissima steppe zone, Ait Rhami. latitude: 33 deg. N. longitude: 4 deg. W. elevation: 1600m. Wild. Seed.
- PI 525444 donor id: 1328. origin: Morocco. collected: July 14, 1985. collector: L. Guarino. collector id: 1328. locality: Irrigated valley bottom, Ait Makhlouf. latitude: 33 deg. N. longitude: 4 deg. W. elevation: 1400m. Wild. Seed.
- PI 525445 donor id: 1330. origin: Morocco. collected: July 14, 1985. collector: L. Guarino. collector id: 1330. locality: Large flat shallow valley, Almis. latitude: 33 deg. N. longitude: 4 deg. W. elevation: 1700m. Wild. Seed.
- PI 525446 donor id: 1343. origin: Morocco. collected: July 15, 1985. collector: L. Guarino. collector id: 1343. locality: Almond orchard by stream, N of Aknoul. latitude: 35 deg. N. longitude: 4 deg. W. elevation: 1200m. Wild. Seed.

PI 525447. *Capsicum annuum* L. SOLANACEAE Bell pepper

Donated by: Koyama, T., The New York Botanical Garden, Bronx Park, Bronx, New York, United States. Received June 03, 1988.

origin: Sri Lanka. collector: T. Koyama. other id: Mii 205. Cultivated. Seed.

PI 525448. *Hibiscus furcatus* Willd. MALVACEAE

Donated by: Koyama, T., The New York Botanical Garden, Bronx Park, Bronx, New York, United States. Received June 03, 1988.

PI 525448-continued

**donor id:** K15993. **origin:** Sri Lanka. **collector:** T. Koyama. **other id:** Mii 49. **received as:** *H. falcatus*. Cultivated. Seed.

PI 525449. *Ricinus communis* L. EUPHORBIACEAE Castorbean

**Donated by:** Koyama, T., The New York Botanical Garden, Bronx Park, Bronx, New York, United States. Received June 03, 1988.

**donor id:** K 16058. **origin:** Sri Lanka. **collected:** April 03, 1985. **collector:** T. Koyama. **other id:** Mii 246. Cultivated. Seed.

PI 525450. *Triticum aestivum* L. POACEAE Common wheat

**Donated by:** Scharen, A.L., USDA-ARS, Department of Plant Pathology, Montana State University, Bozeman, Montana, United States. **remarks:** Joint release by ARS-USDA and the Montana Agricultural Experiment Station. Received October 11, 1988.

**origin:** United States. **pedigree:** Vona/72-52 X1. **other id:** GP-313. **group:** CSR-WHEAT. **remarks:** Bulk of progeny from six x-ray treated lines. Plants 100cm tall. Yield 3.4 T/ha. Test weight 67kg/hl. Hard, red type. **disease resistance:** Useful levels to *Septoria nodorum* & *S. tritici*. Winter Annual. Breeding Material. Seed.

PI 525451. *Triticum aestivum* L. POACEAE Common wheat

**Donated by:** Alexander, W.L., Sigco Research Inc., Box 289, Breckenridge, Minnesota, United States; and Cook, A.E.; Hockett, E.A., USDA-ARS, Plant and Soil Science Dept., Montana State University, Bozeman, Montana, United States. Received October 14, 1988.

**donor id:** MTMSSF-88. **origin:** United States. **pedigree:** Crosses of solid stemmed spring wheats Glenman, Fortuna, Leader, Rescue, BW559, and MT7810 to male sterile plants. **other id:** GP-293. **group:** CSR-WHEAT. **remarks:** Montana male-sterile sawfly. Diverse phenotypes. Maturity early to late. Height semi-dwarf to tall. Chaff white to brown. Heads long and short. Awned and awnletted. Kernels small to large. Stems mostly solid. **insect resistance:** Wheat Stem Sawfly. Spring Annual. Breeding Material. Seed.

PI 525452. *Triticum aestivum* L. POACEAE Common wheat

**Donated by:** Whelan, E.D.P.; Conner, R.L., Agriculture Canada Research Station, Lethbridge, Alberta, Canada. Received October 14, 1988.

**donor id:** LRS-7-50. **origin:** Canada. **pedigree:** Rescue/Rescue monosomic for chromosomes 6D and 6Ag. **other id:** GP-294. **group:** CSR-WHEAT. **other id:** Rescue:6 Dg.6Agp(trans.design). **other id:** CN 18127. **remarks:** F2 generation plants 26.7% homozygous for resistance to mite colonization. Mite vector of wheat streak mosaic virus and the wheat spot mosaic agent. **insect resistance:** Colonization by *Eriophyes tulipae*. **Breeding Material.** Seed.

PI 525453. *Glycine max* (L.) Merr. FABACEAE Soybean

**Donated by:** Fehr, W.R., Dept. of Agronomy, Iowa State University, Ames, Iowa, United States. **remarks:** Cooperative development by the Iowa Agriculture and Home Economics Experiment Station and the Puerto Rico Agricultural Experiment Station. Received October 14, 1988.

**origin:** United States. **cultivar:** CONRAD. **pedigree:** A3127/Charger (Tri-Valley). **other id:** CV-232. **group:** CSR-SOYBEAN. **remarks:** Maturity Group II. Best adapted to 41 to 43 deg. latitude. Flowers purple. Pubescence tawny. Pods tan at maturity. Seeds dull-yellow with brown hila. Superior yield to public cultivars of similar maturity. Susceptible to *Phytophthora* rot, brown stem rot, bacterial tan spot and soybean mosaic virus. **disease resistance:** Moderate to purple stain (*Cercospora kikuchii*). **Cultivar.** Seed.

PI 525454. *Glycine max* (L.) Merr. FABACEAE Soybean

**Donated by:** Wilcox, J.R., USDA-ARS, Dept. of Agronomy, Purdue University, West Lafayette, Indiana, United States; and Roach, M.T., Pioneer Hi-Bred International Inc., P.O. Box 30, Redwood Falls, Minnesota, United States; and Abney, T.S., USDA-ARS, Dept. of Botany and Plant Pathology, Purdue University, West Lafayette, Indiana, United States. Received October 14, 1988.

**donor id:** C1653. **origin:** United States. **cultivar:** SPENCER. **pedigree:** A75-305022/Century. **other id:** CV-233. **group:** CSR-SOYBEAN. **remarks:** Maturity Group IV. Growth habit indeterminate. Flowers white. Pubescence tawny. Pods brown at maturity. Seeds dull yellow with brown hila. Excellent yield potential and resistance to lodging as compared to previously released Maturity Group IV cultivars. **Cultivar.** Seed.



PI 525455. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Melton, B., Dept. of Agronomy and Horticulture, New Mexico State University, Las Cruces, New Mexico, United States.  
**Received** October 14, 1988.

**donor id:** P-3. **origin:** United States. **pedigree:** Developed from Wilson 11%, Dona Ana 11%, 75-189 11%, NM Common 6%, Rincon 6%, WL 312 17%, Apollo 20%, Vernal 17%, parentage by three cycles of recurrent phenotypic selection, based on phosphorus concentration in the top growth. **other id:** GP-213. **group:** CSR-ALFALFA. **remarks:** Possesses 39% higher phosphorus concentration than in unselected check populations. Higher leaf/stem ratio, higher percentage of water soluble phosphorus, same percentage of water insoluble phosphorus and a higher rate of phosphorus uptake than check populations. Non-target mineral concentrations not affected adversely. Forage yield and fall dormancy similar to Mesilla. Susceptible to anthracnose. **disease resistance:** Bacterial and fusarium wilts. Moderate to root rot. **insect resistance:** Pea and spotted alfalfa aphids. Breeding Material. Seed.

PI 525456. *Triticum aestivum* L. POACEAE Common wheat

**Donated by:** Mundel, H.H., Agriculture Canada Research Station, Lethbridge, AB T1J 4B1, Canada. **Received** October 14, 1988.

**donor id:** BW 597. **origin:** Canada. **pedigree:** Ciano S/Chester. **other id:** GP-295. **group:** CSR-WHEAT. **other id:** 7451-5. **remarks:** Good yield potential. Susceptible to lodging. Milling and baking qualities very good. Acceptable alpha-amylase content (low). Seeds medium red, midsize to large. **disease resistance:** Many prevalent races of bunt and stem rust. Moderate to loose smut and leaf rust. **insect resistance:** Wheat Stem Sawfly. Spring Annual. Breeding Material. Seed.

PI 525457 to 525458. *Carthamus tinctorius* L. ASTERACEAE Safflower

**Donated by:** Bergman, J.W., Eastern Agric. Research Center, Montana Agric. Exp. Station, Sidney, Montana, United States. **Received** October 14, 1988.

PI 525457 to 525458-continued

PI 525457 donor id: 81B6078. origin: United States. cultivar: GIRARD. pedigree: Cargill 1653/Sidney Selection 87-42-3//Sidney Selection 88-74-2/Boswell 671///S-541. other id: CV-14. group: CSR-SAFFLOWER. remarks: Plants spiny with spines on leaf tips, leaf margins, and involucre bracts. Maturity 120 days. Flowers yellow, orange when dried. Seeds with grey-stripe hull. Test weight 30.6kg/ hl. Seed yield 3,033 kg/ha. Oil percentage 42.4. Iodine number 147. Linoleic acid content 82%. disease resistance: Alternaria leaf spot, Pseudomonas bacterial blight. Sclerotinea head rot. Cultivar. Seed.

PI 525458 origin: United States. cultivar: FINCH. pedigree: Rio//Royal/Sidney Selection 87-42-3. other id: CV-15. group: CSR-SAFFLOWER. remarks: Plants spiny with spines on leaf tips, leaf margins, and involucre bracts. Flowers yellow. Height about 51.3cm under dryland conditions. Seeds with white normal hull (95%). Birdseed type. Sclerenchyma reduction variable, (appears blotchy) mostly under high moisture conditions. Test weight high 32.9kg/ha. Oil content 41.3%. Iodine number 147. Linoleic acid content 80%. disease resistance: Alternaria leaf spot, Pseudomonas bacterial blight. Intermediate for Sclerotinia head rot, some to head rot. Cultivar. Seed.

PI 525459. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by: Meyer, W.A., Pure-Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon, United States. remarks: Cooperative efforts of Pure-Seed Testing, Seed Research of Oregon, Inc., and the New Jersey Agricultural Experiment Station. Received October 14, 1988.

origin: United States. cultivar: SR-4000. pedigree: Selection from maternal progenies of 11 clones. other id: CV-115. group: CSR-OTHER GRASSES. remarks: Plants attractive, leafy, persistent, turf type, with medium fine texture, medium high density, and bright, dark green color. Produces moderately low-growing turf with improved mowing qualities, good winterhardiness, very good summer performance and excellent wear tolerance. Seedling vigor good. disease resistance: Good to most present races of crown rust, stem rust. Winter net blotch & large brown patch disease. insect resistance: Enhanced to billbugs, many lepidopterous sp. of sod webworms. Cultivar. Seed.

PI 525460. *Festuca longifolia* Thuill. POACEAE

**Donated by:** Robinson, M.F., Seed Research of Oregon, Inc., 644 SW 13th Street, Corvallis, Oregon, United States. **remarks:** Cooperative efforts of Seed Research of Oregon, Inc., and the New Jersey Agricultural Experiment Station. Received October 14, 1988.

**origin:** United States. **cultivar:** SR-3000. **pedigree:** Selection of polycross progenies of five clones which contain an endophyte (*Acremonium* sp.). **other id:** CV-37. **group:** CSR-FESCUE. **remarks:** Moderately aggressive, persistent, turf type. Leaves fine, bright, medium dark green. Produces attractive low-growing turf with little or no supplemental irrigation. Shade tolerance good. Good winter hardiness. Improved summer performance. Good on infertile, acid and droughty soils. **disease resistance:** Good to prevalent races of powdery mildew, anthracnose. Net blotch and red thread. **insect resistance:** Enhanced to chinch bugs, billbugs and greenbug. Cultivar. Seed.

PI 525461 to 525469. *Gossypium hirsutum* L. MALVACEAE Cotton

**Donated by:** Gannaway, J.R., Texas Agricultural Experiment Station, Lubbock, Texas, United States. **remarks:** Selections for increased fiber length and tensile strength. Received October 14, 1988.

PI 525461 **donor id:** CA-3001. **origin:** United States. **pedigree:** Single plant selection out of CA-1056 derived from Del Cerro/CA-398//AZ 6024-11-1. **other id:** GP-365. **group:** CSR-COTTON. **remarks:** Bolls larger, and fibers longer and stronger than check cultivars. Breeding Material. Seed.

PI 525462 **donor id:** CA-3002. **origin:** United States. **pedigree:** Single plant selection out of CA-2266 derived from El Paso Source Material (EPSM)/CA-1056. **other id:** GP-366. **group:** CSR-COTTON. **remarks:** Fibers long, strong and exhibit a micronaire value less than check cultivars. Breeding Material. Seed.

PI 525463 **donor id:** CA-3003. **origin:** United States. **pedigree:** Sib selection out of CA-2153 from Lambright 28//CA-491/Pima (*G. barbadense*). **other id:** GP-367. **group:** CSR-COTTON. **remarks:** Fibers longer and stronger than check cultivars. Breeding Material. Seed.

PI 525464 **donor id:** CA-3004. **origin:** United States. **pedigree:** Sib selection out of CA-2153 from Lambright 28//CA-491/Pima (*G. barbadense*). **other id:** GP-368. **group:** CSR-COTTON. **remarks:** Fibers longer and stronger than check cultivars. Breeding Material. Seed.

PI 525461 to 525469-continued

- PI 525465 donor id: CA-3005. origin: United States. pedigree: Sib selection out of CA-2153 from Lambright 28//CA-491/Pima (G. barbadense). other id: GP-369. group: CSR-COTTON. remarks: Fibers longer and stronger than check cultivars. Breeding Material. Seed.
- PI 525466 donor id: CA-3006. origin: United States. pedigree: Sib selection out of CA-2153 from Lambright 28//CA-491/Pima (G. barbadense). other id: GP-370. group: CSR-COTTON. remarks: Shortest fibers, highest length uniformity ratio and highest micronaire value of five lines (3003-3007, PI 525463 -PI 525467). Breeding Material. Seed.
- PI 525467 donor id: CA-3007. origin: United States. pedigree: Sib selection out of CA-2153 from Lambright 28//CA-491/Pima (G. barbadense). other id: GP-371. group: CSR-COTTON. remarks: Fibers longer and stronger than check cultivars. Breeding Material. Seed.
- PI 525468 donor id: CA-3012. origin: United States. pedigree: Bulk selection out of CA-2153. other id: GP-372. group: CSR-COTTON. remarks: Tensile strength 265.9, lowest of the nine lines. Breeding Material. Seed.
- PI 525469 donor id: CA-3013. origin: United States. pedigree: Single plant selection out of CA-2135 from CA-1056/Auburn 623A RNR. other id: GP-373. group: CSR-COTTON. remarks: Bolls smaller but fibers longer and stronger than check cultivars. Breeding Material. Seed.

PI 525470 to 525481. *Gossypium hirsutum* L. MALVACEAE Cotton

Donated by: Gannaway, J.R., Texas Agric. Exp. Station, Lubbock, Texas, United States. remarks: Selection for unique combination of various fiber properties needed by some segments of the textile industry. Received October 14, 1988.

- PI 525470 donor id: CA-3008. origin: United States. pedigree: Individual plant selection from El Paso Source Materials (EPSM). other id: GP-382. group: CSR-COTTON. remarks: Bolls larger than check cultivars. Boll conformation similar to Paymaster 303. Segregating for seed fuzz density. Fiber properties generally better than check cultivars. Micronaire value in premium range. Breeding Material. Seed.

PI 525470 to 525481-continued

- PI 525471 donor id: CA-3009. origin: United States. pedigree: Individual plant selection from El Paso Source Materials (EPSM). other id: GP-383. group: CSR-COTTON. remarks: Bolls larger than check cultivars. Segregating for seed fuzz density. Fiber properties generally better than check cultivars. Boll type similar to Acala SJ5. Breeding Material. Seed.
- PI 525472 donor id: CA-3010. origin: United States. pedigree: Individual plant selection from El Paso Source Materials (EPSM). other id: GP-384. group: CSR-COTTON. remarks: Bolls comparable to check cultivars. Segregating for seed fuzz density. Fiber properties generally better than check cultivars. Micronaire value in premium range. Boll type similar to Acala SJ5. Breeding Material. Seed.
- PI 525473 donor id: CA-3011. origin: United States. pedigree: Individual plant selection from El Paso Source Materials (EPSM). other id: GP-385. group: CSR-COTTON. remarks: Bolls comparable to check cultivars. Boll conformation similar to Paymaster 303. Segregating for seed fuzz density. Fiber properties generally better than check cultivars. Micronaire value in premium range. Breeding Material. Seed.
- PI 525474 donor id: CA-3014. origin: United States. pedigree: Individual plant selection from El Paso Source Materials (EPSM). other id: GP-386. group: CSR-COTTON. remarks: Bolls larger than check cultivars. Normal seed fuzz density. Fiber properties generally better than check cultivars. Micronaire in premium range. Boll type similar to Acala SJ5. Breeding Material. Seed.
- PI 525475 donor id: CA-3015. origin: United States. pedigree: Individual plant selection from El Paso Source Materials (EPSM). other id: GP-387. group: CSR-COTTON. remarks: Bolls small. Normal seed fuzz density. Fiber properties generally better than check cultivars. Micronaire value below 3.5. Boll type similar to Acala SJ5. Breeding Material. Seed.
- PI 525476 donor id: CA-3016. origin: United States. pedigree: Individual plant selection from El Paso Source Materials (EPSM). other id: GP-388. group: CSR-COTTON. remarks: Bolls small. Normal seed fuzz density. Fiber properties generally better than check cultivars. Micronaire value in premium range. Boll type similar to Acala SJ5. Breeding Material. Seed.

PI 525470 to 525481-continued

- PI 525477 **donor id:** CA-3017. **origin:** United States. **pedigree:** Individual plant selection from El Paso Source Materials (EPSM). **other id:** GP-389. **group:** CSR-COTTON. **remarks:** Bolls small. Normal seed fuzz density. Fiber properties generally better than check cultivars. Micronaire value below 3.5. Boll type similar to Acala SJ5. Breeding Material. Seed.
- PI 525478 **donor id:** CA-3018. **origin:** United States. **pedigree:** Individual plant selection from El Paso Source Materials (EPSM). **other id:** GP-390. **group:** CSR-COTTON. **remarks:** Bolls small. Normal seed fuzz density. Fiber properties generally better than check cultivars. Micronaire value below 3.5. Boll type similar to Acala SJ5. Breeding Material. Seed.
- PI 525479 **donor id:** CA-3019. **origin:** United States. **pedigree:** Individual plant selection from El Paso Source Materials (EPSM). **other id:** GP-391. **group:** CSR-COTTON. **remarks:** Bolls small. Reduced seed fuzz density. Fiber properties generally better than check cultivars. Micronaire value below 3.5. Boll type similar to Acala SJ5. Breeding Material. Seed.
- PI 525480 **donor id:** CA-3020. **origin:** United States. **pedigree:** Individual plant selection from El Paso Source Materials (EPSM). **other id:** GP-392. **group:** CSR-COTTON. **remarks:** Bolls small. Normal seed fuzz density. Fiber properties generally better than check cultivars. Micronaire value in premium range. Boll type similar to Acala SJ5. Breeding Material. Seed.
- PI 525481 **donor id:** CA-3021. **origin:** United States. **pedigree:** Individual plant selection from El Paso Source Materials (EPSM). **other id:** GP-393. **group:** CSR-COTTON. **remarks:** Bolls small. Normal seed fuzz density. Fiber length did not exceed that of longest check cultivars. Micronaire value in premium range. Boll type similar to Acala SJ5. Breeding Material. Seed.

PI 525482 to 525489. *Gossypium hirsutum* L. MALVACEAE Cotton

**Donated by:** Gannaway, J.R., Texas Agric. Exp. Station, Lubbock, Texas, United States. **remarks:** Selection for increased fiber length and tensile strength. Original germplasm used by the late P.J. Lyerly. Received October 14, 1988.

PI 525482 to 525489-continued

- PI 525482 donor id: CA-3022. origin: United States. other id: GP-374. group: CSR-COTTON. remarks: Lint percentage low (28%) as compared to check cultivars. Bolls small. Seed fuzz density segregating. Fiber length and tensile strength exceeds check cultivars. Micronaire value in premium range. Breeding Material. Seed.
- PI 525483 donor id: CA-3023. origin: United States. other id: GP-375. group: CSR-COTTON. remarks: Lint percentage moderate (31-33%) as compared to check cultivars. Boll size comparable to commercial checks. Seed fuzz density normal. Fiber length and tensile strength exceeds check cultivars. Micronaire value in premium range. Breeding Material. Seed.
- PI 525484 donor id: CA-3024. origin: United States. other id: GP-376. group: CSR-COTTON. remarks: Lint percentage moderate (31-33%) as compared to check cultivars. Boll size comparable to commercial checks. Seed fuzz density normal. Fiber length and tensile strength exceeds check cultivars. Micronaire value in premium range. Breeding Material. Seed.
- PI 525485 donor id: CA-3025. origin: United States. other id: GP-377. group: CSR-COTTON. remarks: Lint percentage moderate (31-33%) as compared to check cultivars. Boll size comparable to commercial checks. Seed fuzz density normal. Fiber length and tensile strength exceeds check cultivars. Micronaire value in premium range. Breeding Material. Seed.
- PI 525486 donor id: CA-3026. origin: United States. other id: GP-378. group: CSR-COTTON. remarks: Lint percentage moderate (31-33%) as compared to check cultivars. Boll size comparable to commercial checks. Conformation similar to Paymaster 303. Seed fuzz density segregating. Fiber length and tensile strength exceeds check cultivars. Micronaire value in premium range. Breeding Material. Seed.
- PI 525487 donor id: CA-3027. origin: United States. other id: GP-379. group: CSR-COTTON. remarks: Lint percentage moderate (31-33%) as compared to check cultivars. Boll size comparable to commercial checks. Seed fuzz density normal. Fiber length and tensile strength exceeds check cultivars. Micronaire value in premium range. Breeding Material. Seed.

PI 525482 to 525489-continued

PI 525488 donor id: CA-3028. origin: United States. other id: GP-380. group: CSR-COTTON. remarks: Lint percentage moderate (31-33%) as compared to check cultivars. Boll size comparable to commercial checks. Seed fuzz density segregating. Fiber length and tensile strength exceeds check cultivars. Micronaire value in premium range. Breeding Material. Seed.

PI 525489 donor id: CA-3029. origin: United States. other id: GP-381. group: CSR-COTTON. remarks: Lint percentage moderate (31-33%) as compared to check cultivars. Boll size comparable to commercial checks. Seed fuzz density normal. Fiber length and tensile strength exceeds check cultivars. Micronaire value in premium range. Breeding Material. Seed.

PI 525490 to 525491. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Castillo, T.N.; Montoya, C.; Munoz, V., Northwest Agriculture Research Station, Cd. Obregon, Sonora, Mexico. Received October 14, 1988.

PI 525490 donor id: II-S105-6-M. origin: Mexico. cultivar: BATUC 86. pedigree: Mayo 80//Hood/Sel. Lee. other id: CV-230. group: CSR-SOYBEAN. remarks: Maturity Group VI. Growth habit determinate. Flowers about 52 days after planting and reaches physiological maturity 130 days after planting. Height 95cm. Flowers purple. Pubescence tawny. Seeds yellow with black or grey hila. Seed weight 13.5g/100 seeds. Seed protein 40.8%. Oil content 20.0%. Lodging and shattering resistant. Cultivar. Seed.

PI 525491 donor id: II-S49-19-M. origin: Mexico. cultivar: SUAQUI 86. pedigree: RAD/Cajeme//Tetabiate/Cajeme. other id: CV-231. group: CSR-SOYBEAN. remarks: Maturity Group VI. Growth habit determinate. Flowers 46 days after planting and reaches physiological maturity 120 days after planting. Height 90cm. Flowers purple. Pubescence tawny. Seeds yellow with black or grey hila. Seed weight 13.3g per 100 seeds. Protein content averages 39.7%. Oil content averages 20.5%. Moderately resistant to lodging and shattering. Cultivar. Seed.

PI 525492. Glycine max (L.) Merr. FABACEAE Soybean

Donated by: Bower, R.C., 524 Arden Drive, Indianapolis, Indiana, United States. Received September 21, 1988.

donor id: BWB. origin: United States. remarks: Grown in Ohio garden for over 60 years. Cultivated. Seed.



PI 525493 to 525494. *Capsicum annuum* L. SOLANACEAE Bell pepper

**Donated by:** Guo, Zhenhua, Dept. of Germplasm Resources, Vegetable Res. Institute, CAAS, 30 Baishigiao Road, Beijing, Peoples Repub. of China. **remarks:** Received through the Northeastern Regional Plant Introduction Station, Geneva, New York. Received October 18, 1988.

PI 525493 **origin:** China, Peoples Repub of. **cultivar:** ZHONG ZIAO NO. 2. **disease resistance:** Tolerant to cucumber mosaic virus. **Cultivar. Seed.**

PI 525494 **origin:** China, Peoples Repub of. **cultivar:** SHUANG FENG. **disease resistance:** Tolerant to cucumber mosaic virus. **Cultivar. Seed.**

PI 525495. *Solanum melongena* L. SOLANACEAE Eggplant

**Donated by:** Guo, Zhenhua, Dept. of Germplasm Resources, Vegetable Res. Institute, CAAS, 30 Baishigiao Road, Beijing, Peoples Repub. of China. **remarks:** Received through the Northeastern Regional Plant Introduction Station, Geneva, New York. Received October 18, 1988.

**origin:** China, Peoples Repub of. **cultivar:** LIU YIE QIE. **remarks:** Maturity very early. **Cultivar. Seed.**

PI 525496. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Chang, W.M., Grassland Research Institute, Huhehot, Peoples Repub. of China. **remarks:** Received through J.R. Carlson, USDA-SCS, Portland, Oregon, and M.D. Rumbaugh, USDA-ARS, Logan, Utah. Received September 22, 1988.

**origin:** China, Peoples Repub of. **collected:** September 09, 1980. **locality:** Chabei, Hebei Province. **Cultivated. Seed.**

PI 525497. *Oxytropis riparia* Litv. FABACEAE

**Donated by:** Solum, D., Plant and Soil Science Dept., Montana State University, Bozeman, Montana, United States. Received October 31, 1988.

**origin:** United States. **collected:** October 22, 1987. **collector:** D. Solum, R. Lockerman, L. Wiesner. **locality:** Clearing, N of gravel county road, 2.4km E of Silver Star (SE 1/4, Section 6, Township 2S, Range 5W), Madison County. **latitude:** 45 deg. 41 min. N. **longitude:** 112 deg. 15 min. W. **elevation:** 1371m. **remarks:** Herb. Growth indeterminate. Leaves opposite, acute, 1-3cm long. Stems prostrate. Taproot long. Flowers small, papilionaceous. Perennial. Wild. **Seed.**

PI 525498. *Amaranthus cruentus* L. AMARANTHACEAE

Donated by: Schaeffer, J.R., Department of Plant and Soil Science, Montana State University, Bozeman, Montana, United States. Received September 6, 1988.

donor id: Montana-5. origin: United States. pedigree: Single plant selection from RRC-425 (Rodale Research Center). other id: GP-2. remarks: Flowers green. Seed white. Main central panicle with erect to drooping, finger-like branches. Uniform dry-down in progeny with evidence for genetic inheritance. Good source of dry-down trait for breeding programs. Breeding Material. Seed.

PI 525499 to 526153. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Clement, J., O.R.S.T.O.M., Paris, France; and LeBlanc, J.M., O.R.S.T.O.M., Paris, France. remarks: Received through IBPGR, Rome, Italy. Received August 1982.

PI 525499 donor id: Sg. 4506. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 03. other id: NSL 168289. locality: Massala village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.

PI 525500 donor id: Sg. 4507. origin: Mali. local name: Kende Yenko. collected: 1978. collector id: MI 04. other id: NSL 168290. locality: Massala village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.

PI 525501 donor id: Sg. 4508. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 05. other id: NSL 168291. locality: Massala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525502 donor id: Sg. 4509. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 06. other id: NSL 168292. locality: Massala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525503 donor id: Sg. 4510. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 08. other id: NSL 168293. locality: Massala village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.

PI 525504 donor id: Sg. 4513. origin: Mali. local name: Kende Ba. collected: 1978. collector id: MI 12. other id: NSL 168294. locality: Koula village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525505 donor id: Sg. 4514. origin: Mali. local name: Baboukoula. collected: 1978. collector id: MI 13. other id: NSL 168295. locality: Koula village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525506 donor id: Sg. 4515. origin: Mali. local name: Kende Dakari. collected: 1978. collector id: MI 15. other id: NSL 168296. locality: Koula village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525507 donor id: Sg. 4516. origin: Mali. local name: Nionifi. collected: 1978. collector id: MI 17. other id: NSL 168297. locality: Koula village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525508 donor id: Sg. 4517. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 21. other id: NSL 168298. locality: Koula village. remarks: Growing cycle 160-180 days. Race Guinea. Cultivated. Seed.
- PI 525509 donor id: Sg. 4518. origin: Mali. local name: Dereni. collected: 1978. collector id: MI 22. other id: NSL 168299. locality: Koula village. remarks: Growing cycle 150-160 days. Race Guinea. Cultivated. Seed.
- PI 525510 donor id: Sg. 4519. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 23. other id: NSL 167404. locality: Koula village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 525511 donor id: Sg. 4520. origin: Mali. local name: Keninke. Teli. collected: 1978. collector id: MI 24. other id: NSL 168300. locality: Koula village. remarks: Growing cycle 75-95 days. Race Guinea. Cultivated. Seed.
- PI 525512 donor id: Sg. 4521. origin: Mali. local name: Tiemarifing. collected: 1978. collector id: MI 25. other id: NSL 168301. locality: Koula village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525513 donor id: Sg. 4522. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 26. other id: NSL 168302. locality: Koula village. remarks: Growing cycle 150-160 days. Race Guinea. Cultivated. Seed.
- PI 525514 donor id: Sg. 4523. origin: Mali. local name: Nienifing. collected: 1978. collector id: MI 29. other id: NSL 168303. locality: Sirakorola village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525515 donor id: Sg. 4524. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 29bis. other id: NSL 168304. locality: Sirakorola village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525516 donor id: Sg. 4526. origin: Mali. local name: Kende Ble. collected: 1978. collector id: MI 31bis. other id: NSL 168305. locality: Sirakorola village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525517 donor id: Sg. 4527. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 36. other id: NSL 168306. locality: Dlana village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525518 donor id: Sg. 4528. origin: Mali. local name: Kende Baboukouka. collected: 1978. collector id: MI 37. other id: NSL 168307. locality: Tougouni village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525519 donor id: Sg. 4530. origin: Mali. local name: N'Tiabanio. collected: 1978. collector id: MI 40. other id: NSL 168308. locality: Tougouni village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525520 donor id: Sg. 4532. origin: Mali. local name: Sanamaninke. collected: 1978. collector id: MI 42. other id: NSL 168309. locality: Tougouni village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525521 donor id: Sg. 4533. origin: Mali. local name: Keninke Niteli. collected: 1978. collector id: MI 48. other id: NSL 168310. locality: Niamina village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525522 donor id: Sg. 4534. origin: Mali. local name: Kende Ble. collected: 1978. collector id: MI 49. other id: NSL 168311. locality: Niamina village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525523 donor id: Sg. 4535. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 53. other id: NSL 167405. locality: Doumoukolo village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525524 donor id: Sg. 4536. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 54. other id: NSL 168312. locality: Doumoukolo village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525525 donor id: Sg. 4539. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 60. other id: NSL 168313. locality: Toukouroba village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525526 donor id: Sg. 4540. origin: Mali. local name: Kende. collected: 1978. collector id: MI 61. other id: NSL 168314. locality: Toukouroba village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525527 donor id: Sg. 4542. origin: Mali. local name: Kassabane. collected: 1978. collector id: MI 63. other id: NSL 167406. locality: Toukouroba village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 525528 donor id: Sg. 4543. origin: Mali. local name: Mankala Ba. collected: 1978. collector id: MI 65. other id: NSL 169227. locality: Toukouroba village. remarks: Growing cycle 120-130 days. Race Guinea x Bicolor. Cultivated. Seed.
- PI 525529 donor id: Sg. 4545. origin: Mali. local name: Mankala Le. collected: 1978. collector id: MI 67. other id: NSL 169253. locality: Toukouroba village. remarks: Growing cycle 80-90 days. Race Guinea x Bicolor. Cultivated. Seed.
- PI 525530 donor id: Sg. 4547. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 71. other id: NSL 168315. locality: Kiban village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525531 donor id: Sg. 4548. origin: Mali. local name: Manganie. collected: 1978. collector id: MI 72. other id: NSL 167407. locality: Kiban village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525532 donor id: Sg. 4549. origin: Mali. local name: Keninke Niteli. collected: 1978. collector id: MI 73. other id: NSL 168316. locality: Kiban village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525533 donor id: Sg. 4550. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 78. other id: NSL 168317. locality: Toubakouro village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525534 donor id: Sg. 4551. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 79. other id: NSL 167408. locality: Toubakouro village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525535 donor id: Sg. 4552. origin: Mali. local name: Kello. collected: 1978. collector id: MI 81. other id: NSL 168318. locality: Toubakouro village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525536 donor id: Sg. 4553. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 87. other id: NSL 167409. locality: Boro village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 525537 donor id: Sg. 4554. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 88. other id: NSL 168319. locality: Boro village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525538 donor id: Sg. 4555. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 89. other id: NSL 167410. locality: Boro village. remarks: Growing cycle 100-110 days. Race Durra. Cultivated. Seed.
- PI 525539 donor id: Sg. 4558. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 96. other id: NSL 169280. locality: Mourdhia village. remarks: Growing cycle 90-100 days. Race Durra/Guinea. Cultivated. Seed.
- PI 525540 donor id: Sg. 4559. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 97. other id: NSL 167411. locality: Mourdhia village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 525541 donor id: Sg. 4561. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 99. other id: NSL 168320. locality: Mourdhia village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525542 donor id: Sg. 4563. origin: Mali. local name: Gadiaba Teli. collected: 1978. collector id: MI 102. other id: NSL 167412. locality: Kouloumba village. remarks: Growing cycle 80-90 days. Race Durra. Cultivated. Seed.
- PI 525543 donor id: Sg. 4565. origin: Mali. local name: Maidam. collected: 1978. collector id: MI 106. other id: NSL 167413. locality: Konronga village. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525544 donor id: Sg. 4566. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 107. other id: NSL 167414. locality: Konronga village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525545 donor id: Sg. 4567. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 111. other id: NSL 167415. locality: Nara village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525546 donor id: Sg. 4570. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 116. other id: NSL 168321. locality: Segue village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525547 donor id: Sg. 4574. origin: Mali. local name: Bichine. collected: 1978. collector id: MI 122. other id: NSL 167416. locality: Akor village. remarks: Growing cycle 100-110 days. Race Durra. Cultivated. Seed.
- PI 525548 donor id: Sg. 4576. origin: Mali. local name: Bichine. collected: 1978. collector id: MI 126. other id: NSL 167417. locality: Douadi village. remarks: Growing cycle 100-110 days. Race Durra. Cultivated. Seed.
- PI 525549 donor id: Sg. 4577. origin: Mali. local name: Kende. collected: 1978. collector id: MI 131. other id: NSL 168322. locality: Famabougou village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525550 donor id: Sg. 4578. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 132. other id: NSL 168323. locality: Famabougou village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525551 donor id: Sg. 4579. origin: Mali. local name: Timikala. collected: 1978. collector id: MI 133. other id: NSL 169623. locality: Famabougou village. remarks: Growing cycle 90 days. Race Guinea Bicolor. Cultivated. Seed.
- PI 525552 donor id: Sg. 4580. origin: Mali. local name: Djebana. collected: 1978. collector id: MI 134. other id: NSL 167418. locality: Famabougou village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525553 donor id: Sg. 4582. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 137. other id: NSL 167419. locality: Dilly village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525554 donor id: Sg. 4583. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 138. other id: NSL 168324. locality: Dilly village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525555 donor id: Sg. 4585. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 144. other id: NSL 168325. locality: Sampaka village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525556 donor id: Sg. 4586. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 145. other id: NSL 167420. locality: Sampaka village. remarks: Growing cycle 130-150 days. Race Durra. Cultivated. Seed.
- PI 525557 donor id: Sg. 4587. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 146. other id: NSL 167421. locality: Sampaka village. remarks: Growing cycle 100-110 days. Race Durra. Cultivated. Seed.
- PI 525558 donor id: Sg. 4589. origin: Mali. local name: Nieniko Taine. collected: 1978. collector id: MI 151. other id: NSL 168326. locality: Balle village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525559 donor id: Sg. 4590. origin: Mali. local name: Nieniko Kore. collected: 1978. collector id: MI 152. other id: NSL 168327. locality: Balle village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525560 donor id: Sg. 4592. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 155. other id: NSL 168328. locality: Korena Kore village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525561 donor id: Sg. 4594. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 159. other id: NSL 167422. locality: Assaman village. remarks: Growing cycle 130-150 days. Race Durra. Cultivated. Seed.
- PI 525562 donor id: Sg. 4595. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 160. other id: NSL 167423. locality: Assaman village. remarks: Growing cycle 110-120 days. Race Durra. Cultivated. Seed.
- PI 525563 donor id: Sg. 4596. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 161. other id: NSL 168329. locality: Assaman village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.



PI 525499 to 526153-continued

- PI 525564 donor id: Sg. 4597. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 164. other id: NSL 168330. locality: Nioro Tougoune village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525565 donor id: Sg. 4600. origin: Mali. local name: Keninkie. collected: 1978. collector id: MI 169. other id: NSL 168331. locality: Falou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525566 donor id: Sg. 4601. origin: Mali. local name: Magankoule. collected: 1978. collector id: MI 170. other id: NSL 169281. locality: Falou village. remarks: Growing cycle 120-130 days. Race Guinea x Durra. Cultivated. Seed.
- PI 525567 donor id: Sg. 4602. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 171. other id: NSL 167424. locality: Falou village. remarks: Growing cycle 130-150 days. Race Durra. Cultivated. Seed.
- PI 525568 donor id: Sg. 4604. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 174. other id: NSL 167425. locality: Doubala village. remarks: Growing cycle 130-150 days. Race Durra. Cultivated. Seed.
- PI 525569 donor id: Sg. 4605. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 175. other id: NSL 167426. locality: Doubala village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 525570 donor id: Sg. 4606. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 177bis. other id: NSL 167427. locality: Simbibougou village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.
- PI 525571 donor id: Sg. 4608. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 177. other id: NSL 167428. locality: Boula village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 525572 donor id: Sg. 4609. origin: Mali. local name: Manganie. collected: 1978. collector id: MI 180. other id: NSL 167429. locality: Beilliat village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 525573 donor id: Sg. 4610. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 181. other id: NSL 168332. locality: Beilliat village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525574 donor id: Sg. 4611. origin: Mali. local name: Manganie Kitipo. collected: 1978. collector id: MI 182. other id: NSL 167430. locality: Beilliat village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.
- PI 525575 donor id: Sg. 4614. origin: Mali. local name: Sampa. collected: 1978. collector id: MI 189. other id: NSL 168009. locality: Sirakoro village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525576 donor id: Sg. 4615. origin: Mali. local name: Amadi Boulou. collected: 1978. collector id: MI 190. other id: NSL 167431. locality: Sirakoro village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.
- PI 525577 donor id: Sg. 4616. origin: Mali. local name: Nio ba. collected: 1978. collector id: MI 191. other id: NSL 168333. locality: Sirakoro village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525578 donor id: Sg. 4617. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 192. other id: NSL 167432. locality: Sirakoro village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.
- PI 525579 donor id: Sg. 4618. origin: Mali. local name: Kourounienie. collected: 1978. collector id: MI 193. other id: NSL 167433. locality: Sirakoro village. remarks: Growing cycle 75-80 days. Race Durra. Cultivated. Seed.
- PI 525580 donor id: Sg. 4619. origin: Mali. local name: Kello. collected: 1978. collector id: MI 194. other id: NSL 168334. locality: Sirakoro village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525581 donor id: Sg. 4621. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 198. other id: NSL 167434. locality: Simbi village. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525582 donor id: Sg. 4622. origin: Mali. local name: Manganie. collected: 1978. collector id: MI 199. other id: NSL 167435. locality: Simbi village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.
- PI 525583 donor id: Sg. 4623. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 200. other id: NSL 167436. locality: Simbi village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525584 donor id: Sg. 4624. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 201. other id: NSL 168335. locality: Simbi village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525585 donor id: Sg. 4627. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 205. other id: NSL 168336. locality: Guemou village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525586 donor id: Sg. 4628. origin: Mali. local name: Diansa. collected: 1978. collector id: MI 206. other id: NSL 168337. locality: Lakamane village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525587 donor id: Sg. 4629. origin: Mali. local name: Diansa Ba. collected: 1978. collector id: MI 207. other id: NSL 168338. locality: Lakamane village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525588 donor id: Sg. 4630. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 208. other id: NSL 167437. locality: Lakamane village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525589 donor id: Sg. 4631. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 209. other id: NSL 167438. locality: Lakamane village. remarks: Growing cycle 110-120 days. Race Durra. Cultivated. Seed.
- PI 525590 donor id: Sg. 4632. origin: Mali. local name: Bimbiri. collected: 1978. collector id: MI 210. other id: NSL 168339. locality: Bianga village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525591 donor id: Sg. 4634. origin: Mali. local name: Gadiaba Ba. collected: 1978. collector id: MI 212. other id: NSL 167439. locality: Bianga village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525592 donor id: Sg. 4635. origin: Mali. local name: Manganie. collected: 1978. collector id: MI 216. other id: NSL 167440. locality: Diankoute village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525593 donor id: Sg. 4638. origin: Mali. local name: Magankoule. collected: 1978. collector id: MI 219. other id: NSL 167441. locality: Diankoute village. remarks: Growing cycle 130 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525594 donor id: Sg. 4639. origin: Mali. local name: Samonko. collected: 1978. collector id: MI 220. other id: NSL 168340. locality: Diankoute village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525595 donor id: Sg. 4641. origin: Mali. local name: Nio Die. collected: 1978. collector id: MI 222. other id: NSL 168341. locality: Diankoute village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525596 donor id: Sg. 4642. origin: Mali. local name: Gadiaba Die. collected: 1978. collector id: MI 224. other id: NSL 167442. locality: Diankoute village. remarks: Growing cycle 100 days. Race Durra. Cultivated. Seed.
- PI 525597 donor id: Sg. 4643. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 226. other id: NSL 168342. locality: Bema village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525598 donor id: Sg. 4644. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 227. other id: NSL 167443. locality: Bema village. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525599 donor id: Sg. 4645. origin: Mali. local name: Nio Ba. collected: 1978. collector id: MI 228. other id: NSL 168343. locality: Bema village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525600 donor id: Sg. 4647. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 231. other id: NSL 167444. locality: Bouli Bani. remarks: Growing cycle 110-120 days. Race Durra. Cultivated. Seed.
- PI 525601 donor id: Sg. 4648. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 232. other id: NSL 168344. locality: Bouli Bani. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525602 donor id: Sg. 4649. origin: Mali. local name: Nieniko Taile. collected: 1978. collector id: MI 236. other id: NSL 168345. locality: Diema. remarks: Growing cycle 75-85 days. Race Guinea. Cultivated. Seed.
- PI 525603 donor id: Sg. 4650. origin: Mali. local name: Sampa. collected: 1978. collector id: MI 237. other id: NSL 168346. locality: Diema. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525604 donor id: Sg. 4651. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 238. other id: NSL 167445. locality: Diema. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525605 donor id: Sg. 4652. origin: Mali. local name: Amadi Boubou. collected: 1978. collector id: MI 239. other id: NSL 167446. locality: Diema. remarks: Growing cycle 130 days. Race Durra. Cultivated. Seed.
- PI 525606 donor id: Sg. 4654. origin: Mali. local name: Kello. collected: 1978. collector id: MI 241. other id: NSL 168347. locality: Diema. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525607 donor id: Sg. 4655. origin: Mali. local name: Nieniko Kore. collected: 1978. collector id: MI 244. other id: NSL 168348. locality: Youri. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525608 donor id: Sg. 4656. origin: Mali. local name: Wala. collected: 1978. collector id: MI 245. other id: NSL 168349. locality: Youri. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525609 donor id: Sg. 4657. origin: Mali. local name: Darne. collected: 1978. collector id: MI 246. other id: NSL 168350. locality: Youri. remarks: Growing cycle 75-80 days. Race Guinea. Cultivated. Seed.
- PI 525610 donor id: Sg. 4658. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 247. other id: NSL 167447. locality: Youri. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525611 donor id: Sg. 4660. origin: Mali. local name: Kello. collected: 1978. collector id: MI 249. other id: NSL 168351. locality: Youri. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525612 donor id: Sg. 4661. origin: Mali. local name: Manganie. collected: 1978. collector id: MI 250. other id: NSL 167448. locality: Youri. remarks: Growing cycle 110-120 days. Race Durra. Cultivated. Seed.
- PI 525613 donor id: Sg. 4662. origin: Mali. local name: Manga Doumbe. collected: 1978. collector id: MI 251. other id: NSL 167449. locality: Youri. remarks: Growing cycle 100-110 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525614 donor id: Sg. 4663. origin: Mali. local name: Nieniko Niteli. collected: 1978. collector id: MI 254. other id: NSL 168352. locality: Dioka. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525615 donor id: Sg. 4664. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 255. other id: NSL 167450. locality: Dioka. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525616 donor id: Sg. 4665. origin: Mali. local name: Gadiaba Blema. collected: 1978. collector id: MI 256. other id: NSL 167451. locality: Dioka. remarks: Growing cycle 110-120 days. Race Durra. Cultivated. Seed.
- PI 525617 donor id: Sg. 4666. origin: Mali. local name: Bagui Niteli. collected: 1978. collector id: MI 257. other id: NSL 168353. locality: Dioka. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525618 donor id: Sg. 4668. origin: Mali. local name: Bagui Niteli. collected: 1978. collector id: MI 260. other id: NSL 168354. locality: Sandare. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525619 donor id: Sg. 4669. origin: Mali. local name: Massere. collected: 1978. collector id: MI 261. other id: NSL 168355. locality: Sandare. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525620 donor id: Sg. 4670. origin: Mali. local name: Gadiaba Blema. collected: 1978. collector id: MI 262. other id: NSL 167452. locality: Sandare. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525621 donor id: Sg. 4671. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 270. other id: NSL 167453. locality: Sandare. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525622 donor id: Sg. 4672. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 264. other id: NSL 167454. locality: Marana. remarks: Growing cycle 130-140 days. Race Durra. Cultivated. Seed.
- PI 525623 donor id: Sg. 4673. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 265. other id: NSL 168356. locality: Marana. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525624 donor id: Sg. 4674. origin: Mali. local name: Kende. collected: 1978. collector id: MI 266. other id: NSL 168357. locality: Marana. remarks: Growing cycle 130 days. Race Guinea. Cultivated. Seed.
- PI 525625 donor id: Sg. 4675. origin: Mali. local name: Gadiaba Blema. collected: 1978. collector id: MI 267. other id: NSL 167455. locality: Marana. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525626 donor id: Sg. 4676. origin: Mali. local name: Gadiaba Ba. collected: 1978. collector id: MI 273. other id: NSL 167456. locality: Marena. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525627 donor id: Sg. 4677. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 274. other id: NSL 168358. locality: Marena village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525628 donor id: Sg. 4678. origin: Mali. local name: Gadiaba Niteli. collected: 1978. collector id: MI 275. other id: NSL 167457. locality: Marena village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 525629 donor id: Sg. 4679. origin: Mali. local name: Amadi Boulou. collected: 1978. collector id: MI 276. other id: NSL 167458. locality: Marena village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.
- PI 525630 donor id: Sg. 4680. origin: Mali. local name: Nieniko Tiema. collected: 1978. collector id: MI 277. other id: NSL 168359. locality: Segala village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525631 donor id: Sg. 4681. origin: Mali. local name: Darne. collected: 1978. collector id: MI 279. other id: NSL 168360. locality: Mandeha village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525632 donor id: Sg. 4682. origin: Mali. local name: Manganie. collected: 1978. collector id: MI 280. other id: NSL 167459. locality: Mandeha village. remarks: Growing cycle 130 days-150 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525633 donor id: Sg. 4683. origin: Mali. local name: Sampa Nieri. collected: 1978. collector id: MI 281. other id: NSL 168361. locality: Mandeha village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525634 donor id: Sg. 4684. origin: Mali. local name: Darne. collected: 1978. collector id: MI 283. other id: NSL 168362. locality: Kirane village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525635 donor id: Sg. 4686. origin: Mali. local name: Souatra. collected: 1978. collector id: MI 285. other id: NSL 167460. locality: Kirane village. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525636 donor id: Sg. 4687. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 286. other id: NSL 167461. locality: Kirane village. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525637 donor id: Sg. 4688. origin: Mali. local name: Kello. collected: 1978. collector id: MI 287. other id: NSL 168363. locality: Kirane village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525638 donor id: Sg. 4690. origin: Mali. local name: Sampa Nieri. collected: 1978. collector id: MI 289. other id: NSL 168364. locality: Kirane village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525639 donor id: Sg. 4691. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 290. other id: NSL 168365. locality: Yelimane village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525640 donor id: Sg. 4693. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 292. other id: NSL 167462. locality: Yelimane village. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525641 donor id: Sg. 4694. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 294. other id: NSL 168366. locality: Kouloum village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525642 donor id: Sg. 4695. origin: Mali. local name: Toura N'Dikouo. collected: 1978. collector id: MI 297. other id: NSL 168367. locality: Diamou village. remarks: Growing cycle 130-140 days. Race Guinea. Cultivated. Seed.



PI 525499 to 526153-continued

- PI 525643 donor id: Sg. 4698. origin: Mali. local name: Nieniko Dagafara. collected: 1978. collector id: MI 301. other id: NSL 168368. locality: Diamou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525644 donor id: Sg. 4699. origin: Mali. local name: Gadiaba Niteli. collected: 1978. collector id: MI 303. other id: NSL 167463. locality: Same village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 525645 donor id: Sg. 4700. origin: Mali. local name: Demba Ile. collected: 1978. collector id: MI 304. other id: NSL 168369. locality: Same village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525646 donor id: Sg. 4701. origin: Mali. local name: Nio Nitelli. collected: 1978. collector id: MI 305. other id: NSL 168370. locality: Same village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525647 donor id: Sg. 4702. origin: Mali. local name: Kinti. collected: 1978. collector id: MI 306. other id: NSL 168371. locality: Same village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525648 donor id: Sg. 4703. origin: Mali. local name: Nieniko Ba. collected: 1978. collector id: MI 307. other id: NSL 168372. locality: Same village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525649 donor id: Sg. 4704. origin: Mali. local name: Gadiaba Ba. collected: 1978. collector id: MI 308. other id: NSL 167464. locality: Same village. remarks: Growing cycle 160-170 days. Race Durra. Cultivated. Seed.
- PI 525650 donor id: Sg. 4705. origin: Mali. local name: Nieniko Niteli. collected: 1978. collector id: MI 311. other id: NSL 168373. locality: Ambidedi village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525651 donor id: Sg. 4706. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 312. other id: NSL 167465. locality: Ambidedi village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525652 donor id: Sg. 4707. origin: Mali. local name: Kinti. collected: 1978. collector id: MI 313. other id: NSL 168374. locality: Ambidedi village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525653 donor id: Sg. 4708. origin: Mali. local name: Nieniko Dagafara. collected: 1978. collector id: MI 314. other id: NSL 168375. locality: Ambidedi village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.
- PI 525654 donor id: Sg. 4709. origin: Mali. local name: Nieniko Dagafara. collected: 1978. collector id: MI 316. other id: NSL 168376. locality: Takoutala village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.
- PI 525655 donor id: Sg. 4710. origin: Mali. local name: Nieniko Ba. collected: 1978. collector id: MI 317. other id: NSL 168377. locality: Takoutala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525656 donor id: Sg. 4711. origin: Mali. local name: Gadiaba Ba. collected: 1978. collector id: MI 318. other id: NSL 167466. locality: Takoutala village. remarks: Growing cycle 160-170 days. Race Durra. Cultivated. Seed.
- PI 525657 donor id: Sg. 4713. origin: Mali. local name: Kende. collected: 1978. collector id: MI 322. other id: NSL 168378. locality: Marena Gouka village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525658 donor id: Sg. 4714. origin: Mali. local name: Sambanieri. collected: 1978. collector id: MI 323. other id: NSL 168379. locality: Marena Gouka village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525659 donor id: Sg. 4715. origin: Mali. local name: Bimberi Teli. collected: 1978. collector id: MI 325. other id: NSL 168380. locality: Babala village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525660 donor id: Sg. 4719. origin: Mali. local name: Kende. collected: 1978. collector id: MI 330. other id: NSL 168381. locality: Sadiola village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525661 donor id: Sg. 4722. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 332bis. other id: NSL 168382. locality: Koussane village. remarks: Growing cycle 120 days. Rice Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525662 donor id: Sg. 4723. origin: Mali. local name: Nagbane. collected: 1978. collector id: MI 333. other id: NSL 167467. locality: Koussane village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.
- PI 525663 donor id: Sg. 4724. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 334. other id: NSL 168383. locality: Kantela village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525664 donor id: Sg. 4725. origin: Mali. local name: Djombassi. collected: 1978. collector id: MI 335. other id: NSL 168384. locality: Kantela village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525665 donor id: Sg. 4726. origin: Mali. local name: Demba Ile. collected: 1978. collector id: MI 336. other id: NSL 168385. locality: Kantela village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525666 donor id: Sg. 4727. origin: Mali. local name: Soussa Badianka. collected: 1978. collector id: MI 337. other id: NSL 168386. locality: Kantela village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525667 donor id: Sg. 4728. origin: Mali. local name: Demba Ile. collected: 1978. collector id: MI 339. other id: NSL 168387. locality: Dag-Dag village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525668 donor id: Sg. 4729. origin: Mali. local name: Demba. collected: 1978. collector id: MI 340. other id: NSL 168388. locality: Dag-Dag village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525669 donor id: Sg. 4730. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 341. other id: NSL 167468. locality: Dag-Dag village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525670 donor id: Sg. 4731. origin: Mali. local name: Sambanieri. collected: 1978. collector id: MI 344. other id: NSL 168389. locality: Aourou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525671 donor id: Sg. 4732. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 345. other id: NSL 169545. locality: Aourou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525672 donor id: Sg. 4733. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 345bis. other id: NSL 167469. locality: Aourou village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525673 donor id: Sg. 4734. origin: Mali. local name: Kello. collected: 1978. collector id: MI 346. other id: NSL 168390. locality: Aourou village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525674 donor id: Sg. 4735. origin: Mali. local name: Demba Ile. collected: 1978. collector id: MI 347. other id: NSL 168391. locality: Aourou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525675 donor id: Sg. 4737. origin: Mali. local name: Bellissi. collected: 1978. collector id: MI 349. other id: NSL 168392. locality: Bilikouate village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525676 donor id: Sg. 4738. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 350. other id: NSL 167470. locality: Bilikouate village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525677 donor id: Sg. 4739. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 351. other id: NSL 168393. locality: Bremassou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525678 donor id: Sg. 4741. origin: Mali. local name: Kinto. collected: 1978. collector id: MI 353. other id: NSL 168394. locality: Bremassou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525679 donor id: Sg. 4742. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 355. other id: NSL 168395. locality: Bremassou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525680 donor id: Sg. 4743. origin: Mali. local name: Patekounda. collected: 1978. collector id: MI 356. other id: NSL 168396. locality: Bremassou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525681 donor id: Sg. 4745. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 360. other id: NSL 168397. locality: Diokeba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525682 donor id: Sg. 4749. origin: Mali. local name: Kinto. collected: 1978. collector id: MI 367. other id: NSL 168398. locality: Dialafara village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525683 donor id: Sg. 4750. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 365bis. other id: NSL 168399. locality: Keniebandi village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525684 donor id: Sg. 4753. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 368bis. other id: NSL 168400. locality: Keniebandi village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525685 donor id: Sg. 4754. origin: Mali. local name: Kinto. collected: 1978. collector id: MI 369bis. other id: NSL 168401. locality: Keniebandi village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525686 donor id: Sg. 4755. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 370bis. other id: NSL 167471. locality: Keniebandi village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525687 donor id: Sg. 4757. origin: Mali. local name: Kinti oule. collected: 1978. collector id: MI 369. other id: NSL 168402. locality: Sitikali village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525688 donor id: Sg. 4758. origin: Mali. local name: Nioli khyo. collected: 1978. collector id: MI 370. other id: NSL 168403. locality: Sitikali village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525689 donor id: Sg. 4761. origin: Mali. local name: Kinto. collected: 1978. collector id: MI 373bis. other id: NSL 168404. locality: Sanogo village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525690 donor id: Sg. 4762. origin: Mali. local name: Nio. collected: 1978. collector id: MI 374bis. other id: NSL 168405. locality: Sanogo village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.
- PI 525691 donor id: Sg. 4763. origin: Mali. local name: Keran. collected: 1978. collector id: MI 375bis. other id: NSL 169557. locality: Sanogo village. remarks: Growing cycle 120 days. Race Guinea Bicolor. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525692 donor id: Sg. 4764. origin: Mali. local name: Nio Ba. collected: 1978. collector id: MI 377. other id: NSL 168406. locality: Dabia village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525693 donor id: Sg. 4765. origin: Mali. local name: Kinto. collected: 1978. collector id: MI 379. other id: NSL 168407. locality: Dabia village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525694 donor id: Sg. 4766. origin: Mali. local name: Nio Teli. collected: 1978. collector id: MI 380. other id: NSL 168408. locality: Dabia village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525695 donor id: Sg. 4767. origin: Mali. local name: Kinto Oule. collected: 1978. collector id: MI 383. other id: NSL 168409. locality: Faraba village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525696 donor id: Sg. 4768. origin: Mali. local name: Nio Ba. collected: 1978. collector id: MI 384. other id: NSL 168410. locality: Faraba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525697 donor id: Sg. 4769. origin: Mali. local name: M'Bayeri. collected: 1978. collector id: MI 386. other id: NSL 168411. locality: Tiankoun village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525698 donor id: Sg. 4770. origin: Mali. local name: M'Bayeri Seoun'Di. collected: 1978. collector id: MI 387. other id: NSL 168412. locality: Tiankoun village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525699 donor id: Sg. 4771. origin: Mali. local name: Nio Ba. collected: 1978. collector id: MI 390. other id: NSL 168413. locality: Tououkoto village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525700 donor id: Sg. 4772. origin: Mali. local name: Kinti. collected: 1978. collector id: MI 391. other id: NSL 168414. locality: Tououkoto village. remarks: Growing cycle 90-110 days. Race Guinea. Cultivated. Seed.
- PI 525701 donor id: Sg. 4773. origin: Mali. local name: Nio Ba. collected: 1978. collector id: MI 395. other id: NSL 168415. locality: Farina village. remarks: Growing cycle 150. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525702 donor id: Sg. 4774. origin: Mali. local name: Kinto Oule. collected: 1978. collector id: MI 396. other id: NSL 168416. locality: Farina village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525703 donor id: Sg. 4776. origin: Mali. local name: Kinto. collected: 1978. collector id: MI 400. other id: NSL 168417. locality: Solo village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525704 donor id: Sg. 4777. origin: Mali. local name: Nio Ba. collected: 1978. collector id: MI 401. other id: NSL 168418. locality: Solo village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525705 donor id: Sg. 4778. origin: Mali. local name: Kinto Oule. collected: 1978. collector id: MI 403. other id: NSL 168419. locality: Mantila village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525706 donor id: Sg. 4780. origin: Mali. local name: Kinti Teli. collected: 1978. collector id: MI 408. other id: NSL 168420. locality: Kabada village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525707 donor id: Sg. 4782. origin: Mali. local name: Nio Ba. collected: 1978. collector id: MI 410. other id: NSL 168421. locality: Kabada village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525708 donor id: Sg. 4783. origin: Mali. local name: Kinti Tourakou. collected: 1978. collector id: MI 411. other id: NSL 168422. locality: Kabada village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525709 donor id: Sg. 4785. origin: Mali. local name: Kinti. collected: 1978. collector id: MI 414. other id: NSL 168423. locality: Baye village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525710 donor id: Sg. 4787. origin: Mali. local name: Nioli Khyo. collected: 1978. collector id: MI 416. other id: NSL 168424. locality: Fatia village. remarks: Growing cycle 150-160 days. Race Guinea. Cultivated. Seed.
- PI 525711 donor id: Sg. 4789. origin: Mali. local name: Kinto Oule. collected: 1978. collector id: MI 421. other id: NSL 168425. locality: Wallia village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525712 donor id: Sg. 4790. origin: Mali. local name: Kinto Kolma. collected: 1978. collector id: MI 422. other id: NSL 168426. locality: Wallia village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525713 donor id: Sg. 4791. origin: Mali. local name: Nio Ba. collected: 1978. collector id: MI 423. other id: NSL 168427. locality: Wallia village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525714 donor id: Sg. 4793. origin: Mali. local name: Kinto Oule. collected: 1978. collector id: MI 428. other id: NSL 168428. locality: Kale village. remarks: Growing cycle 130-140 days. Race Guinea. Cultivated. Seed.
- PI 525715 donor id: Sg. 4794. origin: Mali. local name: Kinto Godi. collected: 1978. collector id: MI 429. other id: NSL 168429. locality: Kale village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525716 donor id: Sg. 4795. origin: Mali. local name: Diansa Samokon. collected: 1978. collector id: MI 430. other id: NSL 168430. locality: Kale village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525717 donor id: Sg. 4796. origin: Mali. local name: Kinto fing. collected: 1978. collector id: MI 431. other id: NSL 168431. locality: Madibaya village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525718 donor id: Sg. 4797. origin: Mali. local name: Kinto Oule. collected: 1978. collector id: MI 432. other id: NSL 168432. locality: Madibaya village. remarks: Growing cycle 130 days. Race Guinea. Cultivated. Seed.
- PI 525719 donor id: Sg. 4798. origin: Mali. local name: Diansa Dagafara. collected: 1978. collector id: MI 433. other id: NSL 168433. locality: Madibaya village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525720 donor id: Sg. 4799. origin: Mali. local name: Gadjan Koulou. collected: 1978. collector id: MI 434. other id: NSL 167472. locality: Madibaya village. remarks: Growing cycle 160-170 days. Race Durra. Cultivated. Seed.
- PI 525721 donor id: Sg. 4800. origin: Mali. local name: Gadiaba Mello. collected: 1978. collector id: MI 435. other id: NSL 167473. locality: Madibaya village. remarks: Growing cycle 180 days. Race Durra. Cultivated. Seed.



PI 525499 to 526153-continued

- PI 525722 donor id: Sg. 4801. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 437. other id: NSL 168434. locality: Madibaya village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525723 donor id: Sg. 4802. origin: Mali. local name: Diansa. collected: 1978. collector id: MI 438. other id: NSL 168435. locality: Sanga village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525724 donor id: Sg. 4803. origin: Mali. local name: Kinto Oule. collected: 1978. collector id: MI 440. other id: NSL 168436. locality: Sanga village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525725 donor id: Sg. 4804. origin: Mali. local name: Diansa Seguetene. collected: 1978. collector id: MI 441. other id: NSL 168437. locality: Oussoumbidiana. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525726 donor id: Sg. 4805. origin: Mali. local name: Gadiaba Mello. collected: 1978. collector id: MI 442. other id: NSL 167474. locality: Oussoumbidiana. remarks: Growing cycle 180 days. Race Durra. Cultivated. Seed.
- PI 525727 donor id: Sg. 4806. origin: Mali. local name: Gadiaba Ba. collected: 1978. collector id: MI 443. other id: NSL 167475. locality: Oussoumbidiana. remarks: Growing cycle 150-160 days. Race Durra. Cultivated. Seed.
- PI 525728 donor id: Sg. 4807. origin: Mali. local name: Diansa Dagafara. collected: 1978. collector id: MI 444. other id: NSL 168438. locality: Oussoumbidiana. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525729 donor id: Sg. 4808. origin: Mali. local name: Kinto Kolma. collected: 1978. collector id: MI 446. other id: NSL 168439. locality: Oussoumbidiana. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525730 donor id: Sg. 4809. origin: Mali. local name: Kinto Fing. collected: 1978. collector id: MI 447. other id: NSL 168440. locality: Oussoumbidiana. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525731 donor id: Sg. 4810. origin: Mali. local name: Ile Massire. collected: 1978. collector id: MI 449. other id: NSL 168441. locality: Diaba village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525732 donor id: Sg. 4811. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 450. other id: NSL 168442. locality: Diaba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525733 donor id: Sg. 4812. origin: Mali. local name: Kello. collected: 1978. collector id: MI 451. other id: NSL 168443. locality: Diaba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525734 donor id: Sg. 4813. origin: Mali. local name: Ile Misse. collected: 1978. collector id: MI 452. other id: NSL 168444. locality: Diaba village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525735 donor id: Sg. 4815. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 454. other id: NSL 168445. locality: Diaba village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525736 donor id: Sg. 4816. origin: Mali. local name: Somonko Teli. collected: 1978. collector id: MI 456. other id: NSL 168446. locality: Sefeto village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525737 donor id: Sg. 4817. origin: Mali. local name: Somonko Ba. collected: 1978. collector id: MI 457. other id: NSL 168447. locality: Sefeto village. remarks: Growing cycle 130 days. Race Guinea. Cultivated. Seed.
- PI 525738 donor id: Sg. 4818. origin: Mali. local name: Kinti. collected: 1978. collector id: MI 458. other id: NSL 168448. locality: Sefeto village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525739 donor id: Sg. 4820. origin: Mali. local name: Doronko. collected: 1978. collector id: MI 461. other id: NSL 168449. locality: Sefeto village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525740 donor id: Sg. 4821. origin: Mali. local name: Nio Teli. collected: 1978. collector id: MI 463. other id: NSL 168450. locality: Dindanko village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525741 donor id: Sg. 4822. origin: Mali. local name: Doronko. collected: 1978. collector id: MI 464. other id: NSL 168451. locality: Dindanko village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525742 donor id: Sg. 4823. origin: Mali. local name: Gadiaba Sioli. collected: 1978. collector id: MI 465. other id: NSL 167476. locality: Dindanko village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525743 donor id: Sg. 4824. origin: Mali. local name: Kinti. collected: 1978. collector id: MI 466. other id: NSL 168452. locality: Kourouninkoto village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525744 donor id: Sg. 4825. origin: Mali. local name: Doronko. collected: 1978. collector id: MI 468. other id: NSL 168453. locality: Kourouninkoto village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525745 donor id: Sg. 4826. origin: Mali. local name: Nio Teli. collected: 1978. collector id: MI 469. other id: NSL 168454. locality: Kourouninkoto village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525746 donor id: Sg. 4827. origin: Mali. local name: Gadiaba Ba. collected: 1978. collector id: MI 470. other id: NSL 167477. locality: Kourouninkoto village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525747 donor id: Sg. 4828. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 473. other id: NSL 168455. locality: Mambiri village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525748 donor id: Sg. 4829. origin: Mali. local name: Badiouroudian. collected: 1978. collector id: MI 476. other id: NSL 168456. locality: Mambiri village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525749 donor id: Sg. 4831. origin: Mali. local name: Samonko. collected: 1978. collector id: MI 478. other id: NSL 168457. locality: Mambiri village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525750 donor id: Sg. 4832. origin: Mali. local name: Samonko. collected: 1978. collector id: MI 480. other id: NSL 168458. locality: Kenierouba village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525751 donor id: Sg. 4833. origin: Mali. local name: Badiouroudian. collected: 1978. collector id: MI 483. other id: NSL 168459. locality: Kenierouba village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525752 donor id: Sg. 4834. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 484. other id: NSL 168460. locality: Kenierouba village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525753 donor id: Sg. 4835. origin: Mali. local name: Guesse. collected: 1978. collector id: MI 486. other id: NSL 168461. locality: Sirakoro village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525754 donor id: Sg. 4836. origin: Mali. local name: Folomba Oule. collected: 1978. collector id: MI 487. other id: NSL 168462. locality: Sirakoro village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525755 donor id: Sg. 4837. origin: Mali. local name: Samonko. collected: 1978. collector id: MI 488. other id: NSL 168463. locality: Sirakoro village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525756 donor id: Sg. 4838. origin: Mali. local name: Samonko. collected: 1978. collector id: MI 492. other id: NSL 168464. locality: Sanko village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525757 donor id: Sg. 4839. origin: Mali. local name: Guesse. collected: 1978. collector id: MI 493. other id: NSL 168465. locality: Sanko village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525758 donor id: Sg. 4840. origin: Mali. local name: Nio Teli. collected: 1978. collector id: MI 495. other id: NSL 168466. locality: Keniedife village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525759 donor id: Sg. 4841. origin: Mali. local name: Kinto. collected: 1978. collector id: MI 496. other id: NSL 168467. locality: Keniedife village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525760 donor id: Sg. 4842. origin: Mali. local name: Gadjankoulou. collected: 1978. collector id: MI 497. other id: NSL 167478. locality: Keniedife village. remarks: Growing cycle 160 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525761 donor id: Sg. 4843. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 498. other id: NSL 168468. locality: Keniedife village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525762 donor id: Sg. 4847. origin: Mali. local name: Gon. collected: 1978. collector id: MI 504. other id: NSL 168469. locality: Toukouto village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525763 donor id: Sg. 4848. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 505. other id: NSL 168470. locality: Toukouto village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525764 donor id: Sg. 4849. origin: Mali. local name: Gadiaba Teli. collected: 1978. collector id: MI 506. other id: NSL 167479. locality: Toukouto village. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525765 donor id: Sg. 4850. origin: Mali. local name: Nio Teli. collected: 1978. collector id: MI 507. other id: NSL 168471. locality: Toukouto village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525766 donor id: Sg. 4851. origin: Mali. local name: Kinti. collected: 1978. collector id: MI 509. other id: NSL 168472. locality: Boulouli village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525767 donor id: Sg. 4852. origin: Mali. local name: Kende. collected: 1978. collector id: MI 511. other id: NSL 168473. locality: Madina village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.
- PI 525768 donor id: Sg. 4853. origin: Mali. local name: Kende. collected: 1978. collector id: MI 512. other id: NSL 168474. locality: Madina village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525769 donor id: Sg. 4854. origin: Mali. local name: Doronko. collected: 1978. collector id: MI 513. other id: NSL 169546. locality: Madina village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525770 donor id: Sg. 4855. origin: Mali. local name: Doronko Ba. collected: 1978. collector id: MI 516. other id: NSL 168475. locality: Moro Moro village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525771 donor id: Sg. 4856. origin: Mali. local name: Kende. collected: 1978. collector id: MI 517. other id: NSL 168476. locality: Moro Moro village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.
- PI 525772 donor id: Sg. 4857. origin: Mali. local name: Kende. collected: 1978. collector id: MI 518. other id: NSL 168477. locality: Moro Moro village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525773 donor id: Sg. 4859. origin: Mali. local name: Sonikoura Die. collected: 1978. collector id: MI 521. other id: NSL 168478. locality: Badinko village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525774 donor id: Sg. 4860. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 522. other id: NSL 168479. locality: Badinko village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525775 donor id: Sg. 4861. origin: Mali. local name: Kende Ble. collected: 1978. collector id: MI 523. other id: NSL 168480. locality: Badinko village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525776 donor id: Sg. 4862. origin: Mali. local name: Samonko. collected: 1978. collector id: MI 524. other id: NSL 168481. locality: Badinko village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525777 donor id: Sg. 4863. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 527. other id: NSL 168482. locality: Massala village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525778 donor id: Sg. 4864. origin: Mali. local name: Sampa. collected: 1978. collector id: MI 528. other id: NSL 168483. locality: Massala village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525779 donor id: Sg. 4865. origin: Mali. local name: Kinti Migue. collected: 1978. collector id: MI 531. other id: NSL 168484. locality: Kokofata village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525780 donor id: Sg. 4866. origin: Mali. local name: Kinti Sonkou. collected: 1978. collector id: MI 532. other id: NSL 168485. locality: Kokofata village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525781 donor id: Sg. 4867. origin: Mali. local name: Dorokon. collected: 1978. collector id: MI 533. other id: NSL 168486. locality: Kokofata village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525782 donor id: Sg. 4869. origin: Mali. local name: Dorokon. collected: 1978. collector id: MI 537. other id: NSL 168487. locality: Sagabari village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525783 donor id: Sg. 4870. origin: Mali. local name: Nienie Ble. collected: 1978. collector id: MI 539. other id: NSL 168488. locality: Kassaro village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525784 donor id: Sg. 4871. origin: Mali. local name: Nienie Oule. collected: 1978. collector id: MI 540. other id: NSL 168489. locality: Kassaro village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525785 donor id: Sg. 4872. origin: Mali. local name: Doronko. collected: 1978. collector id: MI 541. other id: NSL 168490. locality: Kassaro village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525786 donor id: Sg. 4873. origin: Mali. local name: Kende Sokou. collected: 1978. collector id: MI 544. other id: NSL 168491. locality: Kassaro village. remarks: Growing cycle 130-140 days. Race Guinea. Cultivated. Seed.
- PI 525787 donor id: Sg. 4874. origin: Mali. local name: Kende Dakari. collected: 1978. collector id: MI 545. other id: NSL 168492. locality: Kassaro village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525788 donor id: Sg. 4875. origin: Mali. local name: Doronko. collected: 1978. collector id: MI 546. other id: NSL 168493. locality: Negala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525789 donor id: Sg. 4876. origin: Mali. local name: Nienie Ble. collected: 1978. collector id: MI 547. other id: NSL 168494. locality: Negala village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525790 donor id: Sg. 4877. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 549. other id: NSL 168495. locality: Faladie village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525791 donor id: Sg. 4878. origin: Mali. local name: Nionifi. collected: 1978. collector id: MI 550. other id: NSL 168496. locality: Faladie village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525792 donor id: Sg. 4879. origin: Mali. local name: Doronko. collected: 1978. collector id: MI 552. other id: NSL 168497. locality: Faladie village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525793 donor id: Sg. 4880. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 553. other id: NSL 168498. locality: Faladie village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525794 donor id: Sg. 4881. origin: Mali. local name: Nionifi. collected: 1978. collector id: MI 554. other id: NSL 168499. locality: Fassa village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525795 donor id: Sg. 4882. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 555. other id: NSL 167480. locality: Fassa village. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525796 donor id: Sg. 4883. origin: Mali. local name: Sonikoura Oule. collected: 1978. collector id: MI 556. other id: NSL 168500. locality: Fassa village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525797 donor id: Sg. 4885. origin: Mali. local name: Dereni. collected: 1978. collector id: MI 558. other id: NSL 168501. locality: Fassa village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525798 donor id: Sg. 4886. origin: Mali. local name: Kende Dakari. collected: 1978. collector id: MI 559. other id: NSL 168502. locality: Fassa village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525799 donor id: Sg. 4887. origin: Mali. local name: Doronko. collected: 1978. collector id: MI 560. other id: NSL 168503. locality: Fassa village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525800 donor id: Sg. 4888. origin: Mali. local name: N'Guene Ba. collected: 1978. collector id: MI 567. other id: NSL 168504. locality: Segue village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.



PI 525499 to 526153-continued

- PI 525801 donor id: Sg. 4889. origin: Mali. local name: Gadiaba Ba. collected: 1978. collector id: MI 568. other id: NSL 167481. locality: Segue village. remarks: Growing cycle 130-150 days. Race Durra. Cultivated. Seed.
- PI 525802 donor id: Sg. 4890. origin: Mali. local name: Kende Ble. collected: 1978. collector id: MI 569. other id: NSL 168505. locality: Segue village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525803 donor id: Sg. 4892. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 574. other id: NSL 167482. locality: Doubabougou village. remarks: Growing cycle 130-150 days. Race Durra. Cultivated. Seed.
- PI 525804 donor id: Sg. 4893. origin: Mali. local name: Manganie. collected: 1978. collector id: MI 576. other id: NSL 167483. locality: Tiessemana village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 525805 donor id: Sg. 4894. origin: Mali. local name: Manganie. collected: 1978. collector id: MI 579. other id: NSL 167484. locality: Tiessemana village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 525806 donor id: Sg. 4895. origin: Mali. local name: Kello. collected: 1978. collector id: MI 581. other id: NSL 168506. locality: Tiessemana village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525807 donor id: Sg. 4896. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 582. other id: NSL 168507. locality: Tiessemana village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 525808 donor id: Sg. 4897. origin: Mali. local name: Kende Yenko. collected: 1978. collector id: MI 585. other id: NSL 168508. locality: Didieni village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525809 donor id: Sg. 4898. origin: Mali. local name: Gadiaba Ba. collected: 1978. collector id: MI 586. other id: NSL 167485. locality: Didieni village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525810 donor id: Sg. 4900. origin: Mali. local name: Gadiaba Teli. collected: 1978. collector id: MI 588. other id: NSL 167486. locality: Didieni village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525811 donor id: Sg. 4901. origin: Mali. local name: Kende Dakari. collected: 1978. collector id: MI 589. other id: NSL 168509. locality: Didieni village. remarks: Growing cycle 90-110 days. Race Guinea. Cultivated. Seed.
- PI 525812 donor id: Sg. 4902. origin: Mali. local name: Kende Siguikou. collected: 1978. collector id: MI 590. other id: NSL 168510. locality: Didieni village. remarks: Growing cycle 90-110 days. Race Guinea. Cultivated. Seed.
- PI 525813 donor id: Sg. 4903. origin: Mali. local name: Keninke Teli. collected: 1978. collector id: MI 591. other id: NSL 168511. locality: Didieni village. remarks: Growing cycle 75-80 days. Race Guinea. Cultivated. Seed.
- PI 525814 donor id: Sg. 4904. origin: Mali. local name: Dorokon Niokoutouni. collected: 1978. collector id: MI 592. other id: NSL 168512. locality: Didieni village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525815 donor id: Sg. 4905. origin: Mali. local name: Dorokon Niokoutouni. collected: 1978. collector id: MI 594bis. other id: NSL 168513. locality: Serado village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525816 donor id: Sg. 4906. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 585bis. other id: NSL 168514. locality: Serado village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525817 donor id: Sg. 4907. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 586bis. other id: NSL 167487. locality: Serado village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.
- PI 525818 donor id: Sg. 4908. origin: Mali. local name: Gadiaba Teli. collected: 1978. collector id: MI 587bis. other id: NSL 167488. locality: Serado village. remarks: Growing cycle 90 days. race Durra. Cultivated. Seed.
- PI 525819 donor id: Sg. 4909. origin: Mali. local name: Dorokon. collected: 1978. collector id: MI 590bis. other id: NSL 168515. locality: Kouloudjenhe village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525820 donor id: Sg. 4910. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 591bis. other id: NSL 167489. locality: Kouloudjenhe village. remarks: Growing cycle 120 days. Race Durra. Cultivated. Seed.
- PI 525821 donor id: Sg. 4911. origin: Mali. local name: Amadi Boubou. collected: 1978. collector id: MI 592bis. other id: NSL 167490. locality: Kouloudjenhe village. remarks: Growing cycle 150 days. Race Durra. Cultivated. Seed.
- PI 525822 donor id: Sg. 4912. origin: Mali. local name: Bimbiri Ba. collected: 1978. collector id: MI 594bis. other id: NSL 168516. locality: Dyoumara village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525823 donor id: Sg. 4913. origin: Mali. local name: Shanneba. collected: 1978. collector id: MI 595bis. other id: NSL 168517. locality: Dyoumara village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.
- PI 525824 donor id: Sg. 4914. origin: Mali. local name: Nionifi Teli. collected: 1978. collector id: MI 597. other id: NSL 168518. locality: Yagabougou village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 525825 donor id: Sg. 4915. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 599. other id: NSL 167491. locality: Yagabougou village. remarks: Growing cycle 130-150 days. Race Durra. Cultivated. Seed.
- PI 525826 donor id: Sg. 4916. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 600. other id: NSL 168519. locality: Yagabougou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525827 donor id: Sg. 4917. origin: Mali. local name: Samonko. collected: 1978. collector id: MI 601. other id: NSL 168520. locality: Yagabougou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525828 donor id: Sg. 4918. origin: Mali. local name: Kende Ble. collected: 1978. collector id: MI 602. other id: NSL 168521. locality: Yagabougou village. remarks: Growing cycle 110-120. Race Guinea. Cultivated. Seed.
- PI 525829 donor id: Sg. 4919. origin: Mali. local name: Kende Fing. collected: 1978. collector id: MI 603. other id: NSL 169547. locality: Yagabougou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525830 donor id: Sg. 4920. origin: Mali. local name: Sobene. collected: 1978. collector id: MI 604. other id: NSL 167492. locality: Yagabougou village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 525831 donor id: Sg. 4921. origin: Mali. local name: Nionifi Teli. collected: 1978. collector id: MI 606. other id: NSL 168522. locality: Missira village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525832 donor id: Sg. 4922. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 607. other id: NSL 168523. locality: Missira village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525833 donor id: Sg. 4923. origin: Mali. local name: Kende Yenko. collected: 1978. collector id: MI 608. other id: NSL 168524. locality: Missira village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525834 donor id: Sg. 4924. origin: Mali. local name: Kende Dakari. collected: 1978. collector id: MI 609. other id: NSL 168525. locality: Missira village. remarks: Growing cycle 90-110 days. Race Guinea. Cultivated. Seed.
- PI 525835 donor id: Sg. 4925. origin: Mali. local name: Nieniefi. collected: 1978. collector id: MI 612. other id: NSL 168526. locality: Massantola village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525836 donor id: Sg. 4926. origin: Mali. local name: Nienie Ble. collected: 1978. collector id: MI 613. other id: NSL 168527. locality: Massantola village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525837 donor id: Sg. 4928. origin: Mali. local name: Kende Yenko. collected: 1978. collector id: MI 615. other id: NSL 168528. locality: Massantola village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525838 donor id: Sg. 4929. origin: Mali. local name: Kende Sokou. collected: 1978. collector id: MI 616. other id: NSL 168529. locality: Massantola village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525839 donor id: Sg. 4930. origin: Mali. local name: Gadiaba Ble. collected: 1978. collector id: MI 617. other id: NSL 167493. locality: Massantola village. remarks: Growing cycle 110-120 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525840 donor id: Sg. 4931. origin: Mali. local name: Gadiaba Die. collected: 1978. collector id: MI 618. other id: NSL 167494. locality: Massantola village. remarks: Growing cycle 110 days. Race Durra. Cultivated. Seed.
- PI 525841 donor id: Sg. 4932. origin: Mali. collected: 1978. collector id: MI 619. other id: NSL 168858. locality: Massantola village. remarks: Growing cycle 90-100 days. Race Caudatum. Cultivated. Seed.
- PI 525842 donor id: Sg. 4934. origin: Mali. local name: Nieniefi. collected: 1978. collector id: MI 623. other id: NSL 168530. locality: Sirakoroba village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525843 donor id: Sg. 4935. origin: Mali. local name: Gadiaba Ble. collected: 1978. collector id: MI 624. other id: NSL 167495. locality: Sirakoroba village. remarks: Growing cycle 110-120 days. Race Durra. Cultivated. Seed.
- PI 525844 donor id: Sg. 4936. origin: Mali. collected: 1978. collector id: MI 625. other id: NSL 169559. locality: Sirakoroba village. remarks: Race Caudatum. Cultivated. Seed.
- PI 525845 donor id: Sg. 4937. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 626. other id: NSL 167496. locality: Sirakoroba village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 525846 donor id: Sg. 4939. origin: Mali. local name: Dereni. collected: 1978. collector id: MI 632. other id: NSL 168531. locality: Tioribougou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525847 donor id: Sg. 4940. origin: Mali. local name: Samargalaka. collected: 1978. collector id: MI 633. other id: NSL 168532. locality: Tioribougou village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525848 donor id: Sg. 4941. origin: Mali. local name: Derebleni. collected: 1978. collector id: MI 637. other id: NSL 168533. locality: Nossombougou village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525849 donor id: Sg. 4942. origin: Mali. local name: Nionifi Die. collected: 1978. collector id: MI 638. other id: NSL 168534. locality: Nossombougou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525850 donor id: Sg. 4943. origin: Mali. local name: Kende Fing. collected: 1978. collector id: MI 639. other id: NSL 168535. locality: Nossombougou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525851 donor id: Sg. 4944. origin: Mali. local name: Kende Yenko. collected: 1978. collector id: MI 640. other id: NSL 168536. locality: Nossombougou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525852 donor id: Sg. 4945. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 641. other id: NSL 168537. locality: Nossombougou village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525853 donor id: Sg. 4946. origin: Mali. local name: Gadiaba Teli. collected: 1978. collector id: MI 642. other id: NSL 167497. locality: Nossombougou village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 525854 donor id: Sg. 4947. origin: Mali. local name: Kende. collected: 1978. collector id: MI 645. other id: NSL 168538. locality: Sonitieni village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525855 donor id: Sg. 4948. origin: Mali. local name: Nionifi. collected: 1978. collector id: MI 646. other id: NSL 168539. locality: Sonitieni village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525856 donor id: Sg. 4949. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 647. other id: NSL 168540. locality: Sonitieni village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525857 donor id: Sg. 4950. origin: Mali. local name: Dorokon Teli. collected: 1978. collector id: MI 649. other id: NSL 168541. locality: Sibi village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525858 donor id: Sg. 4951. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 651. other id: NSL 168542. locality: Narena village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525859 donor id: Sg. 4952. origin: Mali. local name: Dorokon. collected: 1978. collector id: MI 652. other id: NSL 168543. locality: Narena village. remarks: Growing cycle 140-150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525860 donor id: Sg. 4953. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 654. other id: NSL 168544. locality: Kenyeba village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525861 donor id: Sg. 4954. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 655. other id: NSL 168545. locality: Kenyeba village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525862 donor id: Sg. 4955. origin: Mali. local name: Bimbiri. collected: 1978. collector id: MI 656. other id: NSL 168546. locality: Kenyeba village. remarks: Growing cycle 140-150 days. Race Guinea. Cultivated. Seed.
- PI 525863 donor id: Sg. 4956. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 659. other id: NSL 168547. locality: Kenyegoue village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525864 donor id: Sg. 4957. origin: Mali. local name: Kende Dakari. collected: 1978. collector id: MI 660. other id: NSL 168548. locality: Kenyegoue village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525865 donor id: Sg. 4958. origin: Mali. local name: Bimbiri Badie. collected: 1978. collector id: MI 661. other id: NSL 168549. locality: Kenyegoue village. remarks: Growing cycle 140-150 days. Race Guinea. Cultivated. Seed.
- PI 525866 donor id: Sg. 4959. origin: Mali. local name: Bimbiri Guesse. collected: 1978. collector id: MI 662. other id: NSL 168550. locality: Kenyegoue village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525867 donor id: Sg. 4960. origin: Mali. local name: Kende Dakari. collected: 1978. collector id: MI 665. other id: NSL 168551. locality: Kangaba village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525868 donor id: Sg. 4961. origin: Mali. local name: Bimbiri Guesse. collected: 1978. collector id: MI 666. other id: NSL 168552. locality: Kangaba village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525869 donor id: Sg. 4962. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 670. other id: NSL 168553. locality: Dyeliba village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525870 donor id: Sg. 4963. origin: Mali. local name: Tourokanio. collected: 1978. collector id: MI 671. other id: NSL 168554. locality: Dyeliba village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525871 donor id: Sg. 4964. origin: Mali. local name: Seguetena. collected: 1978. collector id: MI 672. other id: NSL 168555. locality: Dyeliba village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.
- PI 525872 donor id: Sg. 4965. origin: Mali. local name: Doronko. collected: 1978. collector id: MI 674. other id: NSL 168556. locality: Dyalakoroba village. remarks: Growing cycle 90-105 days. Race Guinea. Cultivated. Seed.
- PI 525873 donor id: Sg. 4966. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 675. other id: NSL 168557. locality: Dyalakoroba village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525874 donor id: Sg. 4967. origin: Mali. local name: Kitaka. collected: 1978. collector id: MI 676. other id: NSL 168558. locality: Dyalakoroba village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525875 donor id: Sg. 4968. origin: Mali. local name: Sakoika Ble. collected: 1978. collector id: MI 680. other id: NSL 168559. locality: Faraba village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525876 donor id: Sg. 4969. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 681. other id: NSL 168560. locality: Faraba village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525877 donor id: Sg. 4970. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 682. other id: NSL 168561. locality: Faraba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525878 donor id: Sg. 4971. origin: Mali. local name: Kende Bleni. collected: 1978. collector id: MI 683. other id: NSL 168562. locality: Faraba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.



PI 525499 to 526153-continued

- PI 525879 donor id: Sg. 4972. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 686. other id: NSL 168563. locality: Ouelessebougou village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525880 donor id: Sg. 4973. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 687. other id: NSL 168564. locality: Ouelessebougou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525881 donor id: Sg. 4974. origin: Mali. local name: Bimbiri Guesse. collected: 1978. collector id: MI 688. other id: NSL 168565. locality: Ouelessebougou village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525882 donor id: Sg. 4975. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 691. other id: NSL 168566. locality: Seliban village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525883 donor id: Sg. 4976. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 692. other id: NSL 168567. locality: Seliban village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525884 donor id: Sg. 4977. origin: Mali. local name: Keninke Gele. collected: 1978. collector id: MI 693. other id: NSL 168568. locality: Seliban village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525885 donor id: Sg. 4978. origin: Mali. local name: Bimbiri Ba. collected: 1978. collector id: MI 695. other id: NSL 168569. locality: Solo village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525886 donor id: Sg. 4979. origin: Mali. local name: Bimbiri Nikalou. collected: 1978. collector id: MI 696. other id: NSL 168570. locality: Solo village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525887 donor id: Sg. 4980. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 697. other id: NSL 168571. locality: Solo village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525888 donor id: Sg. 4981. origin: Mali. local name: Sakoika Ble. collected: 1978. collector id: MI 698. other id: NSL 168572. locality: Solo village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525889 donor id: Sg. 4982. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 699. other id: NSL 168573. locality: Solo village. remarks: Growing cycle 130 days. Race Guinea. Cultivated. Seed.
- PI 525890 donor id: Sg. 4983. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 701. other id: NSL 168574. locality: Meridyala village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525891 donor id: Sg. 4984. origin: Mali. local name: Nionifi. collected: 1978. collector id: MI 702. other id: NSL 168575. locality: Meridyala village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525892 donor id: Sg. 4985. origin: Mali. local name: Kende. collected: 1978. collector id: MI 704. other id: NSL 168576. locality: Meridyala village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525893 donor id: Sg. 4986. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 706. other id: NSL 168577. locality: Meridyala village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 525894 donor id: Sg. 4987. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 707. other id: NSL 168578. locality: Meridyala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525895 donor id: Sg. 4988. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 710. other id: NSL 168579. locality: Toba village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525896 donor id: Sg. 4989. origin: Mali. local name: Nionifi. collected: 1978. collector id: MI 711. other id: NSL 168580. locality: Toba village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525897 donor id: Sg. 4991. origin: Mali. local name: Kende Ble. collected: 1978. collector id: MI 713. other id: NSL 168581. locality: Toba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525898 donor id: Sg. 4992. origin: Mali. local name: Bimbiri Sara. collected: 1978. collector id: MI 714. other id: NSL 168582. locality: Toba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525899 donor id: Sg. 4993. origin: Mali. local name: Bimbiri Guesse. collected: 1978. collector id: MI 715. other id: NSL 168583. locality: Toba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525900 donor id: Sg. 4994. origin: Mali. local name: Kende. collected: 1978. collector id: MI 718. other id: NSL 168584. locality: Kokole village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525901 donor id: Sg. 4995. origin: Mali. local name: Bimbiri Sara. collected: 1978. collector id: MI 719. other id: NSL 168585. locality: Kokole village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525902 donor id: Sg. 4996. origin: Mali. local name: Kende. collected: 1978. collector id: MI 721. other id: NSL 168586. locality: Bounoukou village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525903 donor id: Sg. 4997. origin: Mali. local name: Bimbiri. collected: 1978. collector id: MI 722. other id: NSL 168587. locality: Bounoukou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525904 donor id: Sg. 4998. origin: Mali. local name: Bimbiri Sara. collected: 1978. collector id: MI 725. other id: NSL 168588. locality: Yorobougoula village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525905 donor id: Sg. 5000. origin: Mali. local name: Kende. collected: 1978. collector id: MI 728. other id: NSL 168589. locality: Yorobougoula village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525906 donor id: Sg. 5001. origin: Mali. local name: Kende Dakari. collected: 1978. collector id: MI 729. other id: NSL 168590. locality: Yorobougoula village. remarks: Growing cycle 90-110 days. Race Guinea. Cultivated. Seed.
- PI 525907 donor id: Sg. 5003. origin: Mali. local name: Kende. collected: 1978. collector id: MI 732. other id: NSL 168591. locality: Madina village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525908 donor id: Sg. 5005. origin: Mali. local name: Tiebougou. collected: 1978. collector id: MI 736. other id: NSL 168592. locality: Filamana village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525909 donor id: Sg. 5006. origin: Mali. local name: Bimbiri Sara. collected: 1978. collector id: MI 741. other id: NSL 168593. locality: Niassoumala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525910 donor id: Sg. 5007. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 742. other id: NSL 168594. locality: Niassoumala village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525911 donor id: Sg. 5008. origin: Mali. local name: Bimbiri Ba Die. collected: 1978. collector id: MI 744. other id: NSL 168595. locality: Badogo village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525912 donor id: Sg. 5009. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 745. other id: NSL 168596. locality: Badogo village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525913 donor id: Sg. 5010. origin: Mali. local name: Bimbiri Guesse. collected: 1978. collector id: MI 747. other id: NSL 168597. locality: Gouelinkoro village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 525914 donor id: Sg. 5011. origin: Mali. local name: Kende Samanogo. collected: 1978. collector id: MI 748. other id: NSL 168598. locality: Gouelinkoro village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525915 donor id: Sg. 5012. origin: Mali. local name: Kende N'Gou. collected: 1978. collector id: MI 749. other id: NSL 168599. locality: Gouelinkoro village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525916 donor id: Sg. 5013. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 750. other id: NSL 168600. locality: Gouelinkoro village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525917 donor id: Sg. 5014. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 755. other id: NSL 168601. locality: Siekorole village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525918 donor id: Sg. 5015. origin: Mali. local name: Kende N'Gou. collected: 1978. collector id: MI 756. other id: NSL 168602. locality: Siekorole village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525919 donor id: Sg. 5016. origin: Mali. local name: Bimbiri Sara. collected: 1978. collector id: MI 757. other id: NSL 168603. locality: Siekorole village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525920 donor id: Sg. 5017. origin: Mali. local name: Bimbiri Ba. collected: 1978. collector id: MI 758. other id: NSL 168604. locality: Siekorole village. remarks: Growing cycle 150-180 days. Race Guinea. Cultivated. Seed.
- PI 525921 donor id: Sg. 5018. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 761. other id: NSL 168605. locality: Dossola village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525922 donor id: Sg. 5019. origin: Mali. local name: Kende Massa. collected: 1978. collector id: MI 763. other id: NSL 168606. locality: Dossola village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525923 donor id: Sg. 5020. origin: Mali. local name: Bimbiri Sara. collected: 1978. collector id: MI 764. other id: NSL 168607. locality: Dossola village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525924 donor id: Sg. 5021. origin: Mali. local name: Bimbiri Guesse. collected: 1978. collector id: MI 765. other id: NSL 168608. locality: Dossola village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525925 donor id: Sg. 5022. origin: Mali. local name: Bimbiri Togo. collected: 1978. collector id: MI 766. other id: NSL 168609. locality: Dossola village. remarks: Growing cycle 150-180 days. Race Guinea. Cultivated. Seed.
- PI 525926 donor id: Sg. 5023. origin: Mali. local name: Bimbiri Guesse. collected: 1978. collector id: MI 769. other id: NSL 168610. locality: Tenintou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525927 donor id: Sg. 5024. origin: Mali. local name: Bimbiri Sara. collected: 1978. collector id: MI 770. other id: NSL 168611. locality: Tenintou village. remarks: Growing cycle 150-160 days. Race Guinea. Cultivated. Seed.
- PI 525928 donor id: Sg. 5025. origin: Mali. local name: Kende Oule. collected: 1978. collector id: MI 771. other id: NSL 168612. locality: Tenintou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525929 donor id: Sg. 5026. origin: Mali. local name: Kende. collected: 1978. collector id: MI 773. other id: NSL 168613. locality: Banko village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525930 donor id: Sg. 5027. origin: Mali. local name: Bimbiri Sara. collected: 1978. collector id: MI 774. other id: NSL 168614. locality: Banko village. remarks: Growing cycle 160-180 days. Race Guinea. Cultivated. Seed.
- PI 525931 donor id: Sg. 5028. origin: Mali. local name: Bimbiri Ba. collected: 1978. collector id: MI 777. other id: NSL 168615. locality: Foulalaba village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525932 donor id: Sg. 5029. origin: Mali. local name: Bimbiri Guesse. collected: 1978. collector id: MI 780. other id: NSL 168616. locality: Foulalaba village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525933 donor id: Sg. 5030. origin: Mali. local name: Bimbiri Ba. collected: 1978. collector id: MI 782. other id: NSL 168617. locality: Manankoro village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525934 donor id: Sg. 5031. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 783. other id: NSL 168618. locality: Manankoro village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525935 donor id: Sg. 5032. origin: Mali. local name: Bimbiri Oule. collected: 1978. collector id: MI 786. other id: NSL 168619. locality: Fakola village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525936 donor id: Sg. 5033. origin: Mali. local name: Bimbiri Sie. collected: 1978. collector id: MI 787. other id: NSL 168620. locality: Fakola village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525937 donor id: Sg. 5034. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 790. other id: NSL 168621. locality: Fakola village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525938 donor id: Sg. 5035. origin: Mali. local name: Kende Ble. collected: 1978. collector id: MI 793. other id: NSL 168622. locality: Zantoumala village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525939 donor id: Sg. 5036. origin: Mali. local name: Bimbiri Die. collected: 1978. collector id: MI 794. other id: NSL 168623. locality: Zantoumala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525940 donor id: Sg. 5037. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 798. other id: NSL 168624. locality: Kadiana village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525941 donor id: Sg. 5038. origin: Mali. local name: Kende Ble. collected: 1978. collector id: MI 799. other id: NSL 168625. locality: Kadiana village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525942 donor id: Sg. 5039. origin: Mali. local name: Bimbiri. collected: 1978. collector id: MI 800. other id: NSL 168626. locality: Kadiana village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.
- PI 525943 donor id: Sg. 5040. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 804. other id: NSL 168627. locality: Tienaga village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525944 donor id: Sg. 5041. origin: Mali. local name: Bimbiri. collected: 1978. collector id: MI 805. other id: NSL 168628. locality: Tienaga village. remarks: Growing cycle 130-150 days. Race Guinea. Cultivated. Seed.
- PI 525945 donor id: Sg. 5042. origin: Mali. local name: Kende Die. collected: 1978. collector id: MI 810. other id: NSL 168629. locality: Kebila village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525946 donor id: Sg. 5043. origin: Mali. local name: Bimbiri. collected: 1978. collector id: MI 811. other id: NSL 168630. locality: Kebila village. remarks: Growing cycle 130-140 days. Race Guinea. Cultivated. Seed.
- PI 525947 donor id: Sg. 5044. origin: Mali. local name: Bimbiri Ba. collected: 1978. collector id: MI 812. other id: NSL 168631. locality: Kebila village. remarks: Growing cycle 150-160 days. Race Guinea. Cultivated. Seed.
- PI 525948 donor id: Sg. 5045. origin: Mali. local name: Kende. collected: 1978. collector id: MI 816. other id: NSL 168632. locality: Zantiebougou village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525949 donor id: Sg. 5046. origin: Mali. local name: Nio Die. collected: 1978. collector id: MI 817. other id: NSL 168633. locality: Zantieboucou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525950 donor id: Sg. 5047. origin: Mali. local name: Bimbiri Ba. collected: 1978. collector id: MI 818. other id: NSL 168634. locality: Zantieboucou village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525951 donor id: Sg. 5048. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 821. other id: NSL 168635. locality: Massigui village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525952 donor id: Sg. 5049. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 822. other id: NSL 168636. locality: Massigui village. remarks: Growing cycle 130-140 days. Race Guinea. Cultivated. Seed.
- PI 525953 donor id: Sg. 5050. origin: Mali. local name: Keningue Ba. collected: 1978. collector id: MI 824. other id: NSL 168637. locality: Massigui village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525954 donor id: Sg. 5051. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 827. other id: NSL 168638. locality: Koumantou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525955 donor id: Sg. 5052. origin: Mali. local name: Sakoika. collected: 1978. collector id: MI 830. other id: NSL 168639. locality: Niena village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525956 donor id: Sg. 5053. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 831. other id: NSL 168640. locality: Niena village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525957 donor id: Sg. 5054. origin: Mali. local name: Bimbiri Ba. collected: 1978. collector id: MI 832. other id: NSL 168641. locality: Niena village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525958 donor id: Sg. 5055. origin: Mali. local name: Kalla Goue. collected: 1978. collector id: MI 836. other id: NSL 168642. locality: Danderesso village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.



PI 525499 to 526153-continued

- PI 525959 donor id: Sg. 5056. origin: Mali. local name: Seguetena. collected: 1978. collector id: MI 837. other id: NSL 168643. locality: Danderesso village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525960 donor id: Sg. 5057. origin: Mali. local name: Minianka Nio. collected: 1978. collector id: MI 838. other id: NSL 168644. locality: Danderesso village. remarks: Growing cycle 130-140 days. Race Guinea. Cultivated. Seed.
- PI 525961 donor id: Sg. 5058. origin: Mali. local name: Kalla Goue. collected: 1978. collector id: MI 841. other id: NSL 168645. locality: Tiere Sao village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525962 donor id: Sg. 5059. origin: Mali. local name: Seguetena. collected: 1978. collector id: MI 842. other id: NSL 168646. locality: Tiere Sao village. remarks: Growing cycle 140-150 days. Race Guinea. Cultivated. Seed.
- PI 525963 donor id: Sg. 5060. origin: Mali. local name: Minianka Nio. collected: 1978. collector id: MI 843. other id: NSL 168647. locality: Tiere Sao village. remarks: Growing cycle 130-140 days. Race Guinea. Cultivated. Seed.
- PI 525964 donor id: Sg. 5061. origin: Mali. local name: Kallaka. collected: 1978. collector id: MI 846. other id: NSL 168648. locality: Sangasso village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525965 donor id: Sg. 5062. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 847. other id: NSL 168649. locality: Sangasso village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525966 donor id: Sg. 5063. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 848. other id: NSL 168650. locality: Sangasso village. remarks: Growing cycle 160-180 days. Race Guinea. Cultivated. Seed.
- PI 525967 donor id: Sg. 5064. origin: Mali. local name: Kalla Ka. collected: 1978. collector id: MI 851. other id: NSL 168651. locality: Klela village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525968 donor id: Sg. 5065. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 852. other id: NSL 168652. locality: Kiela village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525969 donor id: Sg. 5066. origin: Mali. local name: Seguetena. collected: 1978. collector id: MI 853. other id: NSL 168653. locality: Klela village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525970 donor id: Sg. 5067. origin: Mali. local name: Kalla Goue. collected: 1978. collector id: MI 856. other id: NSL 168654. locality: Tierorobougou village. remarks: Growing cycle 150-160 days. Race Guinea. Cultivated. Seed.
- PI 525971 donor id: Sg. 5068. origin: Mali. local name: Seguetena. collected: 1978. collector id: MI 857. other id: NSL 168655. locality: Tierorobougou village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525972 donor id: Sg. 5069. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 858. other id: NSL 168656. locality: Loulouli village. remarks: Growing cycle 170-180 days. Race Guinea. Cultivated. Seed.
- PI 525973 donor id: Sg. 5070. origin: Mali. local name: Kende. collected: 1978. collector id: MI 860. other id: NSL 168657. locality: Loulouli village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525974 donor id: Sg. 5071. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 862. other id: NSL 168658. locality: Kadiola village. remarks: Growing cycle 160-180 days. Race Guinea. Cultivated. Seed.
- PI 525975 donor id: Sg. 5072. origin: Mali. local name: Kalla Wogo. collected: 1978. collector id: MI 863. other id: NSL 168659. locality: Kadiola village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525976 donor id: Sg. 5073. origin: Mali. local name: Kalla Kamoni. collected: 1978. collector id: MI 864. other id: NSL 168660. locality: Kadiola village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525977 donor id: Sg. 5074. origin: Mali. local name: Kalla Figue. collected: 1978. collector id: MI 869. other id: NSL 168661. locality: Fourou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525978 donor id: Sg. 5075. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 870. other id: NSL 168662. locality: Fourou village. remarks: Growing cycle 160-180 days. Race Guinea. Cultivated. Seed.
- PI 525979 donor id: Sg. 5076. origin: Mali. local name: Kalla Nieri. collected: 1978. collector id: MI 874. other id: NSL 168663. locality: Lobougoula village. remarks: Growing cycle 160-180 days. Race Guinea. Cultivated. Seed.
- PI 525980 donor id: Sg. 5077. origin: Mali. local name: Kalla Figue. collected: 1978. collector id: MI 876. other id: NSL 168664. locality: Gongasson village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525981 donor id: Sg. 5078. origin: Mali. local name: Kalla Wogo. collected: 1978. collector id: MI 877. other id: NSL 168665. locality: Gongasson village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525982 donor id: Sg. 5080. origin: Mali. local name: Zanganio. collected: 1978. collector id: MI 879. other id: NSL 168666. locality: Kignan village. remarks: Growing cycle 140-150 days. Race Guinea. Cultivated. Seed.
- PI 525983 donor id: Sg. 5081. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 881. other id: NSL 168667. locality: Kignan village. remarks: Growing cycle 130 days. Race Guinea. Cultivated. Seed.
- PI 525984 donor id: Sg. 5082. origin: Mali. local name: Keninke Timari. collected: 1978. collector id: MI 882. other id: NSL 168668. locality: Kignan village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525985 donor id: Sg. 5083. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 883. other id: NSL 168669. locality: Kignan village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525986 donor id: Sg. 5084. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 884. other id: NSL 168670. locality: Mena village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525987 donor id: Sg. 5085. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 885. other id: NSL 168671. locality: Mena village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525988 donor id: Sg. 5086. origin: Mali. local name: Dorokon. collected: 1978. collector id: MI 887. other id: NSL 168672. locality: Mena village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525989 donor id: Sg. 5087. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 891. other id: NSL 168673. locality: Beleko village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525990 donor id: Sg. 5088. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 892. other id: NSL 168674. locality: Beleko village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 525991 donor id: Sg. 5089. origin: Mali. local name: Keninke Bleni. collected: 1978. collector id: MI 894. other id: NSL 168675. locality: Beleko village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 525992 donor id: Sg. 5090. origin: Mali. local name: Bagui Bagul. collected: 1978. collector id: MI 901. other id: NSL 168676. locality: Nangala village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525993 donor id: Sg. 5091. origin: Mali. local name: Dere Ble. collected: 1978. collector id: MI 902. other id: NSL 168677. locality: Nangala village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 525994 donor id: Sg. 5092. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 903. other id: NSL 168678. locality: Nangala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 525995 donor id: Sg. 5093. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 904. other id: NSL 168679. locality: Nangala village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 525996 donor id: Sg. 5094. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 907. other id: NSL 168680. locality: Sanando village. remarks: Growing cycle 140-150 days. Race Guinea. Cultivated. Seed.
- PI 525997 donor id: Sg. 5095. origin: Mali. local name: Dere Ble. collected: 1978. collector id: MI 908. other id: NSL 168681. locality: Sanando village. remarks: Growing cycle 90-110 days. Race Guinea. Cultivated. Seed.
- PI 525998 donor id: Sg. 5096. origin: Mali. local name: Keninke Teli. collected: 1978. collector id: MI 909. other id: NSL 168682. locality: Sanando village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 525999 donor id: Sg. 5097. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 912. other id: NSL 168683. locality: Samene village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 526000 donor id: Sg. 5098. origin: Mali. local name: Dere Ble. collected: 1978. collector id: MI 913. other id: NSL 168684. locality: Samene village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526001 donor id: Sg. 5099. origin: Mali. local name: Bagui Bagui. collected: 1978. collector id: MI 915. other id: NSL 168685. locality: Samene village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526002 donor id: Sg. 5100. origin: Mali. local name: Nienifi. collected: 1978. collector id: MI 918. other id: NSL 168686. locality: Touna village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526003 donor id: Sg. 5101. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 919. other id: NSL 168687. locality: Touna village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526004 donor id: Sg. 5102. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 923. other id: NSL 168688. locality: Nkourala village. remarks: Growing cycle 160-180 days. Race Guinea. Cultivated. Seed.
- PI 526005 donor id: Sg. 5103. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 925. other id: NSL 168689. locality: Mebougou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526006 donor id: Sg. 5104. origin: Mali. local name: Bimbiri. collected: 1978. collector id: MI 926. other id: NSL 168690. locality: Mebougou village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526007 donor id: Sg. 5105. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 927. other id: NSL 168691. locality: Bla village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526008 donor id: Sg. 5106. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 930. other id: NSL 168692. locality: Niessoumana village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526009 donor id: Sg. 5107. origin: Mali. local name: N'Petorogo. collected: 1978. collector id: MI 931. other id: NSL 168693. locality: Niessoumana village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526010 donor id: Sg. 5108. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 933. other id: NSL 168694. locality: Molobala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526011 donor id: Sg. 5109. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 934. other id: NSL 168695. locality: Molobala village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526012 donor id: Sg. 5110. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 935. other id: NSL 168696. locality: Kouri village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526013 donor id: Sg. 5111. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 938. other id: NSL 168697. locality: Kouri village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526014 donor id: Sg. 5112. origin: Mali. local name: Kalla Nie Nie Ble. collected: 1978. collector id: MI 940. other id: NSL 168698. locality: Kouri village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526015 donor id: Sg. 5113. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 943. other id: NSL 168699. locality: Boura village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526016 donor id: Sg. 5114. origin: Mali. local name: Kalla Foulo. collected: 1978. collector id: MI 944. other id: NSL 168700. locality: Boura village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526017 donor id: Sg. 5115. origin: Mali. local name: Nie Nie Ble. collected: 1978. collector id: MI 945. other id: NSL 168701. locality: Boura village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526018 donor id: Sg. 5116. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 946. other id: NSL 168702. locality: Boura village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526019 donor id: Sg. 5117. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 949. other id: NSL 168703. locality: Yorofolo Village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526020 donor id: Sg. 5118. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 950. other id: NSL 168704. locality: Yorofolo Village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526021 donor id: Sg. 5119. origin: Mali. local name: Kalla Foulo. collected: 1978. collector id: MI 951. other id: NSL 168705. locality: Yorofolo Village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526022 donor id: Sg. 5120. origin: Mali. local name: Kalla Ka. collected: 1978. collector id: MI 953. other id: NSL 168706. locality: Zamlara village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526023 donor id: Sg. 5121. origin: Mali. local name: N'Petorogo. collected: 1978. collector id: MI 954. other id: NSL 168707. locality: Zamlara village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526024 donor id: Sg. 5122. origin: Mali. local name: Seguetena. collected: 1978. collector id: MI 955. other id: NSL 168708. locality: Zamlara village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526025 donor id: Sg. 5123. origin: Mali. local name: Tiossounou. collected: 1978. collector id: MI 957. other id: NSL 168709. locality: Beni village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 526026 donor id: Sg. 5124. origin: Mali. local name: Babatassi. collected: 1978. collector id: MI 958. other id: NSL 168710. locality: Beni village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526027 donor id: Sg. 5125. origin: Mali. local name: Mahouin. collected: 1978. collector id: MI 959. other id: NSL 168711. locality: Beni village. remarks: Growing cycle 160-180 days. Race Guinea. Cultivated. Seed.
- PI 526028 donor id: Sg. 5127. origin: Mali. local name: Tiossounou. collected: 1978. collector id: MI 963. other id: NSL 168712. locality: Mandjakui village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 526029 donor id: Sg. 5128. origin: Mali. local name: Tiossounou. collected: 1978. collector id: MI 968. other id: NSL 168713. locality: Koula village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 526030 donor id: Sg. 5129. origin: Mali. local name: Babatassi. collected: 1978. collector id: MI 969. other id: NSL 168714. locality: Koula village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526031 donor id: Sg. 5130. origin: Mali. local name: Babatassi. collected: 1978. collector id: MI 972. other id: NSL 168715. locality: Tominian village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526032 donor id: Sg. 5131. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 973. other id: NSL 168716. locality: Tominian village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526033 donor id: Sg. 5132. origin: Mali. local name: Tiossounou. collected: 1978. collector id: MI 974. other id: NSL 168717. locality: Tominian village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.



PI 525499 to 526153-continued

- PI 526034 donor id: Sg. 5133. origin: Mali. local name: Nemaka. collected: 1978. collector id: MI 975. other id: NSL 168718. locality: Tominian village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526035 donor id: Sg. 5134. origin: Mali. local name: Doumounou. collected: 1978. collector id: MI 978. other id: NSL 168719. locality: Bamandougou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526036 donor id: Sg. 5135. origin: Mali. local name: Werenou. collected: 1978. collector id: MI 979. other id: NSL 168720. locality: Bamandougou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526037 donor id: Sg. 5136. origin: Mali. local name: Habouro. collected: 1978. collector id: MI 980. other id: NSL 168721. locality: Bamandougou village. remarks: Growing cycle 130-140 days. Race Guinea. Cultivated. Seed.
- PI 526038 donor id: Sg. 5137. origin: Mali. local name: Nio Bleni. collected: 1978. collector id: MI 985. other id: NSL 168722. locality: Nyamana village. remarks: Growing cycle 150-160 days. Race Guinea. Cultivated. Seed.
- PI 526039 donor id: Sg. 5138. origin: Mali. local name: Nienifi. collected: 1978. collector id: MI 986. other id: NSL 168723. locality: Nyamana village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526040 donor id: Sg. 5139. origin: Mali. local name: Djoukoninke. collected: 1978. collector id: MI 990. other id: NSL 168724. locality: Konseguela village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526041 donor id: Sg. 5140. origin: Mali. local name: N'Petorogo. collected: 1978. collector id: MI 991. other id: NSL 168725. locality: Konseguela village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526042 donor id: Sg. 5141. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 992. other id: NSL 168726. locality: Konseguela village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526043 donor id: Sg. 5142. origin: Mali. local name: Kalla Ka. collected: 1978. collector id: MI 993. other id: NSL 168727. locality: Konseguela village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 526044 donor id: Sg. 5143. origin: Mali. local name: Djoukoninke. collected: 1978. collector id: MI 996. other id: NSL 168728. locality: Koumiana village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526045 donor id: Sg. 5144. origin: Mali. local name: Soumaninke. collected: 1978. collector id: MI 997. other id: NSL 168729. locality: Koumiana village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526046 donor id: Sg. 5145. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 998. other id: NSL 168730. locality: Koumiana village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526047 donor id: Sg. 5146. origin: Mali. local name: Kalla Niegue. collected: 1978. collector id: MI 999. other id: NSL 168731. locality: Koumiana village. remarks: Growing cycle 180 days. Race Guinea. Cultivated. Seed.
- PI 526048 donor id: Sg. 5147. origin: Mali. local name: N'Potorogo. collected: 1978. collector id: MI 1000. other id: NSL 168732. locality: Koumiana village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526049 donor id: Sg. 5148. origin: Mali. local name: N'Potorogo. collected: 1978. collector id: MI 1003. other id: NSL 168733. locality: Niorosso village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526050 donor id: Sg. 5149. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 1004. other id: NSL 168734. locality: Niorosso village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526051 donor id: Sg. 5150. origin: Mali. local name: Tiemarifing. collected: 1978. collector id: MI 1007. other id: NSL 168735. locality: Toura village. remarks: Growing cycle 130 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526052 donor id: Sg. 5151. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 1008. other id: NSL 168736. locality: Toura village. remarks: Growing cycle 130-140 days. Race Guinea. Cultivated. Seed.
- PI 526053 donor id: Sg. 5152. origin: Mali. local name: Doumounou. collected: 1978. collector id: MI 1010. other id: NSL 168737. locality: Wa village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526054 donor id: Sg. 5153. origin: Mali. local name: Seguetene. collected: 1978. collector id: MI 1011. other id: NSL 168738. locality: Wa village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526055 donor id: Sg. 5154. origin: Mali. local name: Werenou. collected: 1978. collector id: MI 1012. other id: NSL 168739. locality: Wa village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 526056 donor id: Sg. 5155. origin: Mali. local name: M'Bayeri. collected: 1978. collector id: MI 1015. other id: NSL 168740. locality: Djene village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526057 donor id: Sg. 5156. origin: Mali. local name: Keninke Teli. collected: 1978. collector id: MI 1016. other id: NSL 168741. locality: Sofara village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 526058 donor id: Sg. 5157. origin: Mali. local name: Keninke Ba. collected: 1978. collector id: MI 1019. other id: NSL 168742. locality: Sofara village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526059 donor id: Sg. 5158. origin: Mali. local name: Kende Ble. collected: 1978. collector id: MI 1021. other id: NSL 168743. locality: Somadougou village. remarks: Growing cycle 90-90 days. Race Guinea. Cultivated. Seed.
- PI 526060 donor id: Sg. 5159. origin: Mali. local name: Kenin e Guesse. collected: 1978. collector id: MI 1022. other id: NSL 168744. locality: Somadougou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526061 donor id: Sg. 5160. origin: Mali. local name: Keninke Goni. collected: 1978. collector id: MI 1023. other id: NSL 168745. locality: Somadougou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526062 donor id: Sg. 5161. origin: Mali. local name: M'Bayeri Kounori. collected: 1978. collector id: MI 1026. other id: NSL 168746. locality: Sampara village. remarks: Growing cycle 100-120 days. Race Guinea. Cultivated. Seed.
- PI 526063 donor id: Sg. 5162. origin: Mali. local name: M'Bayeri N'Dyaoundi. collected: 1978. collector id: MI 1028. other id: NSL 168747. locality: Sampara village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 526064 donor id: Sg. 5163. origin: Mali. local name: Kende Kou. collected: 1978. collector id: MI 1029. other id: NSL 168748. locality: Diambakourou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526065 donor id: Sg. 5164. origin: Mali. local name: Kende Tomo. collected: 1978. collector id: MI 1031. other id: NSL 169560. locality: Diambakourou village. remarks: Growing cycle 80-90 days. Race Durra Guinea. Cultivated. Seed.
- PI 526066 donor id: Sg. 5167. origin: Mali. local name: M'Bayeri Danieri. collected: 1978. collector id: MI 1035. other id: NSL 169624. locality: Konza village. remarks: Growing cycle 90 days. Race Durra Guinea. Cultivated. Seed.
- PI 526067 donor id: Sg. 5168. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 1040. other id: NSL 168749. locality: Amba village. remarks: Growing cycle 90-110 days. Race Guinea. Cultivated. Seed.
- PI 526068 donor id: Sg. 5169. origin: Mali. local name: M'Bayeri Kellori. collected: 1978. collector id: MI 1044. other id: NSL 168750. locality: Nyminyana village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526069 donor id: Sg. 5170. origin: Mali. local name: Sotari. collected: 1978. collector id: MI 1047. other id: NSL 168751. locality: Tanal village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526070 donor id: Sg. 5172. origin: Mali. local name: Sotari. collected: 1978. collector id: MI 1051. other id: NSL 168752. locality: Kamounie village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526071 donor id: Sg. 5174. origin: Mali. local name: Doundoukoumari. collected: 1978. collector id: MI 1053. other id: NSL 167498. locality: Kamounie village. remarks: Growing cycle 80-90 days. Race Durra. Cultivated. Seed.
- PI 526072 donor id: Sg. 5176. origin: Mali. local name: Doundoukoumari. collected: 1978. collector id: MI 1056. other id: NSL 167499. locality: Mauounde village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 526073 donor id: Sg. 5179. origin: Mali. local name: Sampa Sotari. collected: 1978. collector id: MI 1059. other id: NSL 168753. locality: Maounde village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 526074 donor id: Sg. 5180. origin: Mali. local name: M'Boyori. collected: 1978. collector id: MI 1061. other id: NSL 167500. locality: Boula village. remarks: Growing cycle 120-130 days. Race Durra. Cultivated. Seed.
- PI 526075 donor id: Sg. 5181. origin: Mali. local name: Sotari. collected: 1978. collector id: MI 1062. other id: NSL 167501. locality: Boula village. remarks: Growing cycle 80-90 days. Race Durra. Cultivated. Seed.
- PI 526076 donor id: Sg. 5185. origin: Mali. local name: Hombo Lata. collected: 1978. collector id: MI 1067. other id: NSL 167502. locality: Kikara village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 526077 donor id: Sg. 5186. origin: Mali. local name: Doundoukoumari. collected: 1978. collector id: MI 1068. other id: NSL 167503. locality: Kikara village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526078 donor id: Sg. 5190. origin: Mali. local name: Eme Na. collected: 1978. collector id: MI 1073. other id: NSL 169562. locality: Setaka village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526079 donor id: Sg. 5191. origin: Mali. local name: Eme Doumo. collected: 1978. collector id: MI 1074. other id: NSL 167504. locality: Setaka village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526080 donor id: Sg. 5193. origin: Mali. local name: Eme Titie. collected: 1978. collector id: MI 1076. other id: NSL 169563. locality: Setaka village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526081 donor id: Sg. 5196. origin: Mali. local name: M'Bayeri Moutieri. collected: 1978. collector id: MI 1080. other id: NSL 169564. locality: Nokara village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526082 donor id: Sg. 5197. origin: Mali. local name: M'Bayeri Natari. collected: 1978. collector id: MI 1081. other id: NSL 167505. locality: Nokara village. remarks: Growing cycle 100-110 days. Race Durra. Cultivated. Seed.
- PI 526083 donor id: Sg. 5198. origin: Mali. local name: M'Bayeri Natari. collected: 1978. collector id: MI 1083. other id: NSL 167506. locality: Ouronguerou village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526084 donor id: Sg. 5199. origin: Mali. local name: N'Guili Djala. collected: 1978. collector id: MI 1084. other id: NSL 169565. locality: Ouronguerou village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526085 donor id: Sg. 5200. origin: Mali. local name: Hamo Nato. collected: 1978. collector id: MI 1087. other id: NSL 167507. locality: Hombori village. remarks: Growing cycle 75-80 days. Race Durra. Cultivated. Seed.
- PI 526086 donor id: Sg. 5201. origin: Mali. local name: Hamo Bero. collected: 1978. collector id: MI 1088. other id: NSL 167508. locality: Hombori village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 526087 donor id: Sg. 5202. origin: Mali. local name: Toussou Garimi. collected: 1978. collector id: MI 1090. other id: NSL 167509. locality: Tounere village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 526088 donor id: Sg. 5203. origin: Mali. local name: Toussou Yiliyala. collected: 1978. collector id: MI 1091. other id: NSL 167510. locality: Tounere village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526089 donor id: Sg. 5204. origin: Mali. local name: Toussou Ba. collected: 1978. collector id: MI 1092. other id: NSL 167511. locality: Tounere village. remarks: Growing cycle 100-110 days. Race Durra. Cultivated. Seed.
- PI 526090 donor id: Sg. 5205. origin: Mali. local name: M'Bateri Natari. collected: 1978. collector id: MI 1094. other id: NSL 168754. locality: Dioumdourere. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 526091 donor id: Sg. 5206. origin: Mali. local name: Yiliyala. collected: 1978. collector id: MI 1095. other id: NSL 168755. locality: Dioumdourere. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526092 donor id: Sg. 5207. origin: Mali. local name: Heme Doumo. collected: 1978. collector id: MI 1098. other id: NSL 167512. locality: Diounouga village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526093 donor id: Sg. 5208. origin: Mali. local name: Heme Bane. collected: 1978. collector id: MI 1099. other id: NSL 167513. locality: Diounouga village. remarks: Growing cycle 100-110 days. Race Durra. Cultivated. Seed.
- PI 526094 donor id: Sg. 5210. origin: Mali. local name: Heme Na. collected: 1978. collector id: MI 1103. other id: NSL 168756. locality: Dinangourou village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526095 donor id: Sg. 5211. origin: Mali. local name: Heme Niam. collected: 1978. collector id: MI 1104. other id: NSL 168757. locality: Dinangourou village. remarks: Growing cycle 70-80 days. Race Guinea. Cultivated. Seed.
- PI 526096 donor id: Sg. 5212. origin: Mali. local name: Heme Doumo. collected: 1978. collector id: MI 1105. other id: NSL 167514. locality: Dinangourou village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526097 donor id: Sg. 5213. origin: Mali. local name: Heme Na. collected: 1978. collector id: MI 1107. other id: NSL 168758. locality: Homo village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526098 donor id: Sg. 5214. origin: Mali. local name: Heme Doumo. collected: 1978. collector id: MI 1108. other id: NSL 167515. locality: Homo village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526099 donor id: Sg. 5215. origin: Mali. local name: Heme Piri. collected: 1978. collector id: MI 1109. other id: NSL 167516. locality: Homo village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526100 donor id: Sg. 5216. origin: Mali. local name: Heme Na. collected: 1978. collector id: MI 1111. other id: NSL 168759. locality: Daidourou village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526101 donor id: Sg. 5217. origin: Mali. local name: Heme Doumo. collected: 1978. collector id: MI 1112. other id: NSL 167517. locality: Daidourou village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526102 donor id: Sg. 5218. origin: Mali. local name: Heme Doumo. collected: 1978. collector id: MI 1116. other id: NSL 167518. locality: Godon Ourou village. remarks: Growing cycle 100-120 days. Race Durra. Cultivated. Seed.
- PI 526103 donor id: Sg. 5219. origin: Mali. local name: Heme Niam. collected: 1978. collector id: MI 1117. other id: NSL 168760. locality: Godon Ourou village. remarks: Growing cycle 75-85 days. Race Guinea. Cultivated. Seed.
- PI 526104 donor id: Sg. 5220. origin: Mali. local name: Heme Na. collected: 1978. collector id: MI 1118. other id: NSL 167519. locality: Godon Ourou village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526105 donor id: Sg. 5223. origin: Mali. local name: Heme Doumo. collected: 1978. collector id: MI 1127. other id: NSL 167520. locality: Domnossogou village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526106 donor id: Sg. 5224. origin: Mali. local name: Heme Niam. collected: 1978. collector id: MI 1128. other id: NSL 168761. locality: Domnossogou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.



PI 525499 to 526153-continued

- PI 526107 donor id: Sg. 5225. origin: Mali. local name: Keninke Ble. collected: 1978. collector id: MI 1144. other id: NSL 168762. locality: Sokoura village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526108 donor id: Sg. 5226. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 1146. other id: NSL 168763. locality: Sokoura village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526109 donor id: Sg. 5227. origin: Mali. local name: Kende. collected: 1978. collector id: MI 1149. other id: NSL 168764. locality: Wouorokoui village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526110 donor id: Sg. 5228. origin: Mali. local name: Beloko. collected: 1978. collector id: MI 1152. other id: NSL 168765. locality: Libe village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526111 donor id: Sg. 5229. origin: Mali. local name: Kende Ba. collected: 1978. collector id: MI 1155. other id: NSL 168766. locality: Libe village. remarks: Growing cycle 150 days. Race Guinea. Cultivated. Seed.
- PI 526112 donor id: Sg. 5230. origin: Mali. local name: Heme Doumo. collected: 1978. collector id: MI 1159. other id: NSL 167521. locality: Pomorododiou village. remarks: Growing cycle 140 days. Race Durra. Cultivated. Seed.
- PI 526113 donor id: Sg. 5233. origin: Mali. local name: Heme Pilou. collected: 1978. collector id: MI 1165. other id: NSL 167522. locality: Pomorododiou village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526114 donor id: Sg. 5234. origin: Mali. local name: Periguemene. collected: 1978. collector id: MI 1167. other id: NSL 168767. locality: Dourou village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526115 donor id: Sg. 5235. origin: Mali. local name: Gouronbadiou. collected: 1978. collector id: MI 1168. other id: NSL 168768. locality: Dourou village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526116 donor id: Sg. 5236. origin: Mali. local name: Heme Doumo. collected: 1978. collector id: MI 1170. other id: NSL 167523. locality: Dourou village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526117 donor id: Sg. 5237. origin: Mali. local name: Heme Guenele. collected: 1978. collector id: MI 1174. other id: NSL 168769. locality: Sinkarmon village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526118 donor id: Sg. 5238. origin: Mali. local name: Heme. collected: 1978. collector id: MI 1175. other id: NSL 168770. locality: Sinkarmon village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526119 donor id: Sg. 5240. origin: Mali. local name: Heme Na. collected: 1978. collector id: MI 1178. other id: NSL 168771. locality: Sanga village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526120 donor id: Sg. 5242. origin: Mali. local name: Heme Pilou. collected: 1978. collector id: MI 1180. other id: NSL 168772. locality: Sanga village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526121 donor id: Sg. 5243. origin: Mali. local name: Heme Doumo. collected: 1978. collector id: MI 1184. other id: NSL 167524. locality: Nandoli village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526122 donor id: Sg. 5244. origin: Mali. local name: Heme Diguine. collected: 1978. collector id: MI 1185. other id: NSL 168773. locality: Nandoli village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526123 donor id: Sg. 5245. origin: Mali. local name: Heme Nakolo. collected: 1978. collector id: MI 1186. other id: NSL 168774. locality: Nandoli village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526124 donor id: Sg. 5246. origin: Mali. local name: Heme Pilou. collected: 1978. collector id: MI 1189. other id: NSL 168775. locality: Ningari village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526125 donor id: Sg. 5247. origin: Mali. local name: Heme Diguine. collected: 1978. collector id: MI 1190. other id: NSL 168776. locality: Ningari village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526126 donor id: Sg. 5248. origin: Mali. local name: Heme Gadou. collected: 1978. collector id: MI 1191. other id: NSL 168777. locality: Ningari village. remarks: Growing cycle 80-90 days. Race Guinea. Cultivated. Seed.
- PI 526127 donor id: Sg. 5249. origin: Mali. local name: Heme Na. collected: 1978. collector id: MI 1192. other id: NSL 168778. locality: Ningari village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526128 donor id: Sg. 5250. origin: Mali. local name: Heme Bane. collected: 1978. collector id: MI 1193. other id: NSL 167525. locality: Ningari village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526129 donor id: Sg. 5251. origin: Mali. local name: Heme Nakolo. collected: 1978. collector id: MI 1194. other id: NSL 167526. locality: Ningari village. remarks: Growing cycle 90 days. Race Durra. Cultivated. Seed.
- PI 526130 donor id: Sg. 5254. origin: Mali. local name: M'Bayeri. collected: 1978. collector id: MI 1197. other id: NSL 168779. locality: Kort Kori village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526131 donor id: Sg. 5255. origin: Mali. local name: M'Bassi. collected: 1978. collector id: MI 1201. other id: NSL 168780. locality: Deguimbere village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526132 donor id: Sg. 5256. origin: Mali. local name: Meme. collected: 1978. collector id: MI 1204. other id: NSL 168781. locality: Dialo village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526133 donor id: Sg. 5257. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 1208. other id: NSL 168782. locality: Dioura village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526134 donor id: Sg. 5258. origin: Mali. local name: Djebana. collected: 1978. collector id: MI 1209. other id: NSL 168783. locality: Dioura village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526135 donor id: Sg. 5259. origin: Mali. local name: Sameri. collected: 1978. collector id: MI 1211. other id: NSL 168784. locality: Toladie village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526136 donor id: Sg. 5260. origin: Mali. local name: M'Bayeri. collected: 1978. collector id: MI 1212. other id: NSL 168785. locality: Toladie village. remarks: Growing cycle 110-120 days. Race Guinea. Cultivated. Seed.
- PI 526137 donor id: Sg. 5262. origin: Mali. local name: Sameri. collected: 1978. collector id: MI 1215. other id: NSL 167527. locality: Toladie village. remarks: Growing cycle 100 days. Race Durra. Cultivated. Seed.
- PI 526138 donor id: Sg. 5263. origin: Mali. local name: Rahye. collected: 1978. collector id: MI 1217. other id: NSL 168786. locality: Tjili village. remarks: Growing cycle 100 days. Race Guinea. Cultivated. Seed.
- PI 526139 donor id: Sg. 5264. origin: Mali. local name: Nienifing. collected: 1978. collector id: MI 1219. other id: NSL 168787. locality: Gounado village. remarks: Growing cycle 100-110 days. Race Guinea. Cultivated. Seed.
- PI 526140 donor id: Sg. 5265. origin: Mali. local name: Keninke Die. collected: 1978. collector id: MI 1232. other id: NSL 168788. locality: Niaro village. remarks: Growing cycle 75-85 days. Race Guinea. Cultivated. Seed.
- PI 526141 donor id: Sg. 5266. origin: Mali. local name: Keninke Ble. collected: 1978. collector id: MI 1233. other id: NSL 168789. locality: Niaro village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526142 donor id: Sg. 5267. origin: Mali. local name: Haoussa Kalla. collected: 1978. collector id: MI 1234. other id: NSL 169568. locality: Niaro village. remarks: Growing cycle 100-110 days. Race Guinea x Bicolor. Cultivated. Seed.
- PI 526143 donor id: Sg. 5268. origin: Mali. local name: Djebana. collected: 1978. collector id: MI 1246. other id: NSL 167528. locality: Seguala village. remarks: Growing cycle 90-100 days. Race Durra. Cultivated. Seed.
- PI 526144 donor id: Sg. 5269. origin: Mali. collected: 1978. collector id: MI 1249. other id: NSL 169541. locality: Sonongo village. Cultivated. Seed.

PI 525499 to 526153-continued

- PI 526145 donor id: Sg. 5270. origin: Mali. local name: Keninke Niteli. collected: 1978. collector id: MI 1257. other id: NSL 168790. locality: Tibi village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526146 donor id: Sg. 5271. origin: Mali. local name: Keninke Niteli. collected: 1978. collector id: MI 1261. other id: NSL 168791. locality: Tia village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526147 donor id: Sg. 5272. origin: Mali. local name: Keninke Niteli. collected: 1978. collector id: MI 1266. other id: NSL 168792. locality: Tongue village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526148 donor id: Sg. 5274. origin: Mali. local name: Keninke Niteli. collected: 1978. collector id: MI 1270. other id: NSL 168793. locality: Sai village. remarks: Growing cycle 90 days. Race Guinea. Cultivated. Seed.
- PI 526149 donor id: Sg. 5279. origin: Mali. local name: Kinto. collected: 1978. collector id: MI 1281. other id: NSL 168794. locality: Segou village. remarks: Growing cycle 90-100 days. Race Guinea. Cultivated. Seed.
- PI 526150 donor id: Sg. 5280. origin: Mali. local name: Nioba. collected: 1978. collector id: MI 1297. other id: NSL 168795. locality: Konadimini village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 526151 donor id: Sg. 5281. origin: Mali. local name: Nioba. collected: 1978. collector id: MI 1285. other id: NSL 168796. locality: Fayera village. remarks: Growing cycle 120-130 days. Race Guinea. Cultivated. Seed.
- PI 526152 donor id: Sg. 5282. origin: Mali. local name: Nieniko. collected: 1978. collector id: MI 1289. other id: NSL 168797. locality: Zambougou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.
- PI 526153 donor id: Sg. 5283. origin: Mali. local name: Keninke. collected: 1978. collector id: MI 1291. other id: NSL 168798. locality: Konobougou village. remarks: Growing cycle 120 days. Race Guinea. Cultivated. Seed.

PI 526154 to 526220. Sorghum sp. POACEAE

Donated by: Clement, J., O.R.S.T.O.M., Paris, France; and LeBlanc, J.M., O.R.S.T.O.M., Paris, France. remarks: Received through IBPGR, Rome, Italy. Received August 1982.

PI 526154 to 526220-continued

- PI 526154 donor id: Sg. 4512. origin: Mali. local name: Korikorini. collected: 1978. collector id: MI 11. other id: NSL 169494. locality: Koula village. remarks: Growing cycle 80-90 days. Cultivated. Seed.
- PI 526155 donor id: Sg. 4541. origin: Mali. local name: Goessekele. collected: 1978. collector id: MI 62. other id: NSL 169622. locality: Toukouroba village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526156 donor id: Sg. 4557. origin: Mali. local name: Tiafouga. collected: 1978. collector id: MI 92. other id: NSL 169254. locality: Boro village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526157 donor id: Sg. 4560. origin: Mali. local name: Tiafouga. collected: 1978. collector id: MI 98. other id: NSL 169255. locality: Mourdhia village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526158 donor id: Sg. 4564. origin: Mali. local name: Rahaye. collected: 1978. collector id: MI 105. other id: NSL 169495. locality: Konronga village. remarks: Growing cycle 90 days. Cultivated. Seed.
- PI 526159 donor id: Sg. 4571. origin: Mali. local name: Manganie Taine. collected: 1978. collector id: MI 117. other id: NSL 169496. locality: Segue village. remarks: Growing cycle 90 days. Cultivated. Seed.
- PI 526160 donor id: Sg. 4572. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 118. other id: NSL 169497. locality: Segue village. remarks: Growing cycle 140-150 days. Cultivated. Seed.
- PI 526161 donor id: Sg. 4573. origin: Mali. local name: Rahaye. collected: 1978. collector id: MI 121. other id: NSL 169498. locality: Akor village. remarks: Growing cycle 90 days. Cultivated. Seed.
- PI 526162 donor id: Sg. 4575. origin: Mali. local name: Rahaye. collected: 1978. collector id: MI 125. other id: NSL 169499. locality: Douadi village. remarks: Growing cycle 90 days. Cultivated. Seed.
- PI 526163 donor id: Sg. 4581. origin: Mali. local name: Toubabounioni. collected: 1978. collector id: MI 135. other id: NSL 169500. locality: Famabougou village. remarks: Growing cycle 70-80 days. Cultivated. Seed.

PI 526154 to 526220-continued

- PI 526164 donor id: Sg. 4584. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 141. other id: NSL 169501. locality: Dali village. remarks: Growing cycle 120-130 days. Cultivated. Seed.
- PI 526165 donor id: Sg. 4588. origin: Mali. local name: Tiafouga. collected: 1978. collector id: MI 147. other id: NSL 169256. locality: Sampaka village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526166 donor id: Sg. 4593. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 156. other id: NSL 169502. locality: Korena Kore village. remarks: Growing cycle 130-150 days. Cultivated. Seed.
- PI 526167 donor id: Sg. 4598. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 165. other id: NSL 169503. locality: Nioro Tougoune village. remarks: Growing cycle 120 days. Cultivated. Seed.
- PI 526168 donor id: Sg. 4599. origin: Mali. local name: Kourounienie. collected: 1978. collector id: MI 166. other id: NSL 169504. locality: Nioro Tougoune village. remarks: Growing cycle 75-80 days. Cultivated. Seed.
- PI 526169 donor id: Sg. 4603. origin: Mali. local name: Konotene. collected: 1978. collector id: MI 172. other id: NSL 169257. locality: Falou village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526170 donor id: Sg. 4607. origin: Mali. local name: Gadiaba. collected: 1978. collector id: MI 178bis. other id: NSL 169505. locality: Simbibougou village. remarks: Growing cycle 130-150 days. Cultivated. Seed.
- PI 526171 donor id: Sg. 4612. origin: Mali. local name: Amadi Boulou. collected: 1978. collector id: MI 185. other id: NSL 169506. locality: Tourougoumbe village. remarks: Growing cycle 120-130 days. Cultivated. Seed.
- PI 526172 donor id: Sg. 4620. origin: Mali. local name: Douassa. collected: 1978. collector id: MI 195. other id: NSL 169549. locality: Sirakoro village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526173 donor id: Sg. 4625. origin: Mali. local name: Konotene. collected: 1978. collector id: MI 201bis. other id: NSL 169550. locality: Simbi village. remarks: Growing cycle 150 days. Cultivated. Seed.

PI 526154 to 526220-continued

- PI 526174 donor id: Sg. 4626. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 204. other id: NSL 169507. locality: Guemou village. remarks: Growing cycle 120 days. Cultivated. Seed.
- PI 526175 donor id: Sg. 4636. origin: Mali. local name: Lakahiri. collected: 1978. collector id: MI 217. other id: NSL 169508. locality: Diankoute village. remarks: Growing cycle 120 days. Cultivated. Seed.
- PI 526176 donor id: Sg. 4640. origin: Mali. local name: Yeranio. collected: 1978. collector id: MI 221. other id: NSL 169509. locality: Diankoute village. remarks: Growing cycle 130 days. Cultivated. Seed.
- PI 526177 donor id: Sg. 4646. origin: Mali. local name: Douassa. collected: 1978. collector id: MI 229. other id: NSL 169551. locality: Bema village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526178 donor id: Sg. 4653. origin: Mali. local name: Douassa. collected: 1978. collector id: MI 240. other id: NSL 169552. locality: Diema village. remarks: Growing cycle 140-150 days. Cultivated. Seed.
- PI 526179 donor id: Sg. 4659. origin: Mali. local name: Koulouba. collected: 1978. collector id: MI 248. other id: NSL 169510. locality: Youri village. remarks: Growing cycle 75-80 days. Cultivated. Seed.
- PI 526180 donor id: Sg. 4685. origin: Mali. local name: Moussa Ile. collected: 1978. collector id: MI 284. other id: NSL 169511. locality: Kirane village. remarks: Growing cycle 80-90 days. Cultivated. Seed.
- PI 526181 donor id: Sg. 4689. origin: Mali. local name: Tiafounga. collected: 1978. collector id: MI 288. other id: NSL 169553. locality: Kirane village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526182 donor id: Sg. 4692. origin: Mali. local name: Douassa. collected: 1978. collector id: MI 291. other id: NSL 169554. locality: Yelimane village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526183 donor id: Sg. 4712. origin: Mali. local name: Demba Ile. collected: 1978. collector id: MI 321. other id: NSL 169555. locality: Marena Gouka. remarks: Growing cycle 80-90 days. Cultivated. Seed.



PI 526154 to 526220-continued

- PI 526184 donor id: Sg. 4716. origin: Mali. local name: Badoulou Dian. collected: 1978. collector id: MI 327bis. other id: NSL 169512. locality: Sadiola village. remarks: Growing cycle 90-100 days. Cultivated. Seed.
- PI 526185 donor id: Sg. 4717. origin: Mali. local name: Makebe. collected: 1978. collector id: MI 328. other id: NSL 169513. locality: Sadiola village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526186 donor id: Sg. 4718. origin: Mali. local name: Sonikoura. collected: 1978. collector id: MI 329. other id: NSL 169514. locality: Sadiola village. remarks: Growing cycle 120-130 days. Cultivated. Seed.
- PI 526187 donor id: Sg. 4720. origin: Mali. local name: Mamadou Poulo. collected: 1978. collector id: MI 330bis. other id: NSL 169515. locality: Koussane village. remarks: Growing cycle 90 days. Cultivated. Seed.
- PI 526188 donor id: Sg. 4721. origin: Mali. local name: Mamadou Pe. collected: 1978. collector id: MI 331bis. other id: NSL 169516. locality: Koussane village. remarks: Growing cycle 90-100 days. Cultivated. Seed.
- PI 526189 donor id: Sg. 4736. origin: Mali. local name: Douassa. collected: 1978. collector id: MI 348. other id: NSL 169556. locality: Aourou village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526190 donor id: Sg. 4740. origin: Mali. local name: Makabe. collected: 1978. collector id: MI 352. other id: NSL 169517. locality: Bremassou village. remarks: Growing cycle 160-170 days. Cultivated. Seed.
- PI 526191 donor id: Sg. 4746. origin: Mali. local name: Makebe. collected: 1978. collector id: MI 361. other id: NSL 169518. locality: Diokeba village. remarks: Growing cycle 160-170 days. Cultivated. Seed.
- PI 526192 donor id: Sg. 4747. origin: Mali. collected: 1978. collector id: MI 365. other id: NSL 169519. locality: Dialafara village. Cultivated. Seed.
- PI 526193 donor id: Sg. 4748. origin: Mali. local name: Makebe. collected: 1978. collector id: MI 366. other id: NSL 169520. locality: Dialafara village. remarks: Growing cycle 160-170 days. Cultivated. Seed.

PI 526154 to 526220-continued

- PI 526194 donor id: Sg. 4752. origin: Mali. local name: Makebe. collected: 1978. collector id: MI 367bis. other id: NSL 169521. locality: Keniebandi village. remarks: Growing cycle 160 days. Cultivated. Seed.
- PI 526195 donor id: Sg. 4756. origin: Mali. local name: Konkon oule. collected: 1978. collector id: MI 371bis. other id: NSL 169522. locality: Keniebandi village. remarks: Growing cycle 120 days. Cultivated. Seed.
- PI 526196 donor id: Sg. 4759. origin: Mali. local name: Bambaroya. collected: 1978. collector id: MI 371. other id: NSL 169523. locality: Sitikali village. remarks: Growing cycle 180 days. Cultivated. Seed.
- PI 526197 donor id: Sg. 4760. origin: Mali. local name: Makebe. collected: 1978. collector id: MI 372. other id: NSL 169524. locality: Sitikali village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526198 donor id: Sg. 4775. origin: Mali. local name: Magna Bali. collected: 1978. collector id: MI 399. other id: NSL 169525. locality: Solo village. remarks: Growing cycle 100-110 days. Cultivated. Seed.
- PI 526199 donor id: Sg. 4779. origin: Mali. local name: Soloto. collected: 1978. collector id: MI 406. other id: NSL 169526. locality: Mantila village. remarks: Growing cycle 100-110 days. Cultivated. Seed.
- PI 526200 donor id: Sg. 4781. origin: Mali. local name: Soloto. collected: 1978. collector id: MI 409. other id: NSL 169527. locality: Kabada village. remarks: Growing cycle 120 days. Cultivated. Seed.
- PI 526201 donor id: Sg. 4784. origin: Mali. local name: Makebe. collected: 1978. collector id: MI 413. other id: NSL 169528. locality: Baye village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526202 donor id: Sg. 4786. origin: Mali. local name: Soloto. collected: 1978. collector id: MI 415. other id: NSL 169529. locality: Baye village. remarks: Growing cycle 120 days. Cultivated. Seed.
- PI 526203 donor id: Sg. 4788. origin: Mali. local name: Soloto. collected: 1978. collector id: MI 418. other id: NSL 169530. locality: Fatia village. remarks: Growing cycle 120 days. Cultivated. Seed.

PI 526154 to 526220-continued

- PI 526204 donor id: Sg. 4792. origin: Mali. local name: Amadi Boudou. collected: 1978. collector id: MI 424. other id: NSL 169531. locality: Wallia village. remarks: Growing cycle 120-130 days. Cultivated. Seed.
- PI 526205 donor id: Sg. 4819. origin: Mali. local name: Gadjankoulou. collected: 1978. collector id: MI 460. other id: NSL 169532. locality: Seieto village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526206 donor id: Sg. 4899. origin: Mali. local name: Konotene. collected: 1978. collector id: MI 587. other id: NSL 169558. locality: Didieni village. remarks: Growing cycle 150 days. Cultivated. Seed.
- PI 526207 donor id: Sg. 5171. origin: Mali. local name: M'Boyori. collected: 1978. collector id: MI 1048. other id: NSL 169533. locality: Tanal village. remarks: Growing cycle 160-180 days. Cultivated. Seed.
- PI 526208 donor id: Sg. 5173. origin: Mali. local name: M'Boyori. collected: 1978. collector id: MI 1052. other id: NSL 169534. locality: Kamounie village. remarks: Growing cycle 160-180 days. Cultivated. Seed.
- PI 526209 donor id: Sg. 5175. origin: Mali. local name: Djiberi. collected: 1978. collector id: MI 1054. other id: NSL 169535. locality: Kamounie village. remarks: Growing cycle 120 days. Cultivated. Seed.
- PI 526210 donor id: Sg. 5178. origin: Mali. local name: M'Boyori. collected: 1978. collector id: MI 1058. other id: NSL 169536. locality: Maounde village. remarks: Growing cycle 150-160 days. Cultivated. Seed.
- PI 526211 donor id: Sg. 5183. origin: Mali. local name: Mouninga. collected: 1978. collector id: MI 1064. other id: NSL 169561. locality: Boula village. remarks: Growing cycle 110-120 days. Cultivated. Seed.
- PI 526212 donor id: Sg. 5184. origin: Mali. local name: Sambala. collected: 1978. collector id: MI 1066. other id: NSL 169537. locality: Kikara village. remarks: Growing cycle 90 days. Cultivated. Seed.
- PI 526213 donor id: Sg. 5192. origin: Mali. local name: Eme Seko. collected: 1978. collector id: MI 1075. other id: NSL 169566. locality: Setaka village. remarks: Growing cycle 130-140 days. Cultivated. Seed.

PI 526154 to 526220-continued

- PI 526214 donor id: Sg. 5194. origin: Mali. local name: M'Boyori. collected: 1978. collector id: MI 1077. other id: NSL 169538. locality: Setaka village. remarks: Growing cycle 90-100 days. Cultivated. Seed.
- PI 526215 donor id: Sg. 5221. origin: Mali. local name: Heme Bane. collected: 1978. collector id: MI 1122. other id: NSL 169539. locality: Bamba village. remarks: Growing cycle 90 days. Cultivated. Seed.
- PI 526216 donor id: Sg. 5222. origin: Mali. local name: Heme Piri. collected: 1978. collector id: MI 1125. other id: NSL 169540. locality: Bamba village. remarks: Growing cycle 90-100 days. Cultivated. Seed.
- PI 526217 donor id: Sg. 5253. origin: Mali. local name: Heme Maka. collected: 1978. collector id: MI 1196. other id: NSL 169567. locality: Ningari village. remarks: Growing cycle 110-120 days. Cultivated. Seed.
- PI 526218 donor id: Sg. 5275. origin: Mali. collected: 1978. collector id: MI 1274. other id: NSL 169542. locality: Koumantiebougou village. Cultivated. Seed.
- PI 526219 donor id: Sg. 5276. origin: Mali. collected: 1978. collector id: MI 1277. other id: NSL 169543. locality: N'Gakoro village. Cultivated. Seed.
- PI 526220 donor id: Sg. 5277. origin: Mali. collected: 1978. collector id: MI 1278. other id: NSL 169544. locality: Segou village. Cultivated. Seed.

PI 526221 to 526222. *Abelmoschus esculentus* (L.) Moench MALVACEAE  
Okra

Donated by: Rao, S.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 9, 1987.

- PI 526221 donor id: AMM 864. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 864. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526222 donor id: AMM 1150. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1150. locality: Farmland, Juliasdale, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 30 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526223 to 526230. *Amaranthus* sp. AMARANTHACEAE

Donated by: Rao, S.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 9, 1987.

- PI 526223 donor id: AMM 324. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 324. locality: 8km N of Buhera, Manicaland Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1300m. Wild. Seed.
- PI 526224 donor id: AMM 330. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 330. locality: 8km N of Chipinga, Masvingo Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1350m. Wild. Seed.
- PI 526225 donor id: AMM 379. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 379. locality: 8km N of Nyamazizi, Masvingo Province. latitude: 17 deg. 45 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Wild. Seed.
- PI 526226 donor id: AMM 382. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 382. locality: 8km N of Nyamazizi, Masvingo Province. latitude: 17 deg. 45 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Wild. Seed.
- PI 526227 donor id: AMM 383. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 383. locality: 8km N of Nyamazizi, Masvingo Province. latitude: 17 deg. 45 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Wild. Seed.
- PI 526228 donor id: AMM 384. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 384. locality: 8km N of Nyamazizi, Masvingo Province. latitude: 17 deg. 45 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Wild. Seed.
- PI 526229 donor id: AMM 479. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 479. locality: 8km N of Miami, Masvingo Province. latitude: 16 deg. 38 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Wild. Seed.
- PI 526230 donor id: AMM 1227. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1227. locality: Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Wild. Seed.

PI 526231 to 526239. *Citrullus lanatus* (Thunb.) Matsum. & Nakai  
CUCURBITACEAE Watermelon

**Donated by:** Rao, S.A., IBPGR, Rome, Italy. **remarks:** Received through IBPGR, Rome, Italy. Received February 9, 1987.

- PI 526231 **donor id:** AMM 023. **origin:** Zimbabwe. **collected:** March 28, 1985. **collector:** Rao, Mushonga and Muza. **collector id:** AMM 023. **locality:** Farmland, Birchenou, Masvingo Province. **latitude:** 19 deg. 55 min. S. **longitude:** 32 deg. 20 min. E. **elevation:** 1150m. Primitive Cultivar. Seed.
- PI 526232 **donor id:** AMM 418. **origin:** Zimbabwe. **collected:** April 6, 1985. **collector:** Rao, Mushonga and Muza. **collector id:** AMM 418. **locality:** Farmland, 8km N of Sinoia, Masvingo Province. **latitude:** 17 deg. 20 min. S. **longitude:** 30 deg. 15 min. E. **elevation:** 1290m. Primitive Cultivar. Seed.
- PI 526233 **donor id:** AMM 419. **origin:** Zimbabwe. **collected:** April 6, 1985. **collector:** Rao, Mushonga and Muza. **collector id:** AMM 419. **locality:** Farmland, 8km N of Sinoia, Masvingo Province. **latitude:** 17 deg. 20 min. S. **longitude:** 30 deg. 15 min. E. **elevation:** 1290m. Primitive Cultivar. Seed.
- PI 526234 **donor id:** AMM 461. **origin:** Zimbabwe. **collected:** April 6, 1985. **collector:** Rao, Mushonga and Muza. **collector id:** AMM 461. **locality:** Farmland, 8km N of Sipolilo, Masvingo Province. **latitude:** 16 deg. 40 min. S. **longitude:** 30 deg. 40 min. E. **elevation:** 1290m. Primitive Cultivar. Seed.
- PI 526235 **donor id:** AMM 1266. **origin:** Zimbabwe. **collected:** April 3, 1985. **collector:** Rao, Mushonga and Muza. **collector id:** AMM 1266. **locality:** Farmland, Binga, Matabeleland North Province. **latitude:** 17 deg. 37 min. S. **longitude:** 27 deg. 22 min. E. **elevation:** 1500m. Primitive Cultivar. Seed.
- PI 526236 **donor id:** AMM 1267. **origin:** Zimbabwe. **collected:** April 3, 1985. **collector:** Rao, Mushonga and Muza. **collector id:** AMM 1267. **locality:** Farmland, Binga, Matabeleland North Province. **latitude:** 17 deg. 37 min. S. **longitude:** 27 deg. 22 min. E. **elevation:** 1500m. Primitive Cultivar. Seed.
- PI 526237 **donor id:** AMM 1268. **origin:** Zimbabwe. **collected:** April 3, 1985. **collector:** Rao, Mushonga and Muza. **collector id:** AMM 1268. **locality:** Farmland, Binga, Matabeleland North Province. **latitude:** 17 deg. 37 min. S. **longitude:** 27 deg. 22 min. E. **elevation:** 1500m. Primitive Cultivar. Seed.

PI 526231 to 526239-continued

PI 526238 donor id: AMM 1269. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1269. locality: Farmland, Binga, Matabeleland North Province. latitude: 17 deg. 37 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526239 donor id: AMM 1326. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1326. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 37 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526240 to 526242. Cucumis sativus L. CUCURBITACEAE Cucumber

Donated by: Rao, S.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 9, 1987.

PI 526240 donor id: AMM 34. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 34. locality: Farmland, Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 1150m. Primitive Cultivar. Seed.

PI 526241 donor id: AMM 50. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 50. locality: Farmland, 9km S Hokoya, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 32 deg. 06 min. E. elevation: 1400m. Primitive Cultivar. Seed.

PI 526242 donor id: AMM 909. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 909. locality: Commercial market, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.

PI 526243 to 526251. Cucurbita pepo L. CUCURBITACEAE Pumpkin

Donated by: Rao, S.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 9, 1987.

PI 526243 to 526251-continued

- PI 526243 donor id: AMM 090. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 090. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 850m. Primitive Cultivar. Seed.
- PI 526244 donor id: AMM 429. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 429. locality: Farmland, Zawi, Masvingo Province. latitude: 17 deg. 12 min. S. longitude: 30 deg. 02 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526245 donor id: AMM 483. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 483. locality: Farmland, 8km N of Miami, Masvingo Province. latitude: 16 deg. 38 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Wild. Seed.
- PI 526246 donor id: AMM 928. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 928. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526247 donor id: AMM 1193. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1193. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526248 donor id: AMM 1270. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1270. locality: Farmland, Binga, Matabeleland North Province. latitude: 17 deg. 37 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526249 donor id: AMM 1271. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1271. locality: Farmland, Binga, Matabeleland North Province. latitude: 17 deg. 37 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.



PI 526243 to 526251-continued

PI 526250 donor id: AMM 1272. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1272. locality: Farmland, Binga, Matabeleland North Province. latitude: 17 deg. 37 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526251 donor id: AMM 1320. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1320. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 17 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526252 to 526267. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Rao, S.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 9, 1987.

PI 526252 donor id: AMM 560. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 560. locality: 8km N of Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526253 donor id: AMM 585. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 585. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526254 donor id: AMM 608. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 608. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526255 donor id: AMM 614. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 614. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526252 to 526267-continued

- PI 526256 donor id: AMM 615. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 615. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526257 donor id: AMM 620. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 620. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526258 donor id: AMM 636. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 636. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526259 donor id: AMM 642. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 642. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526260 donor id: AMM 669. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 669. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526261 donor id: AMM 683. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 683. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526262 donor id: AMM 687. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 687. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526252 to 526267-continued

- PI 526263 donor id: AMM 728. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 728. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 20 deg. 10 min. S. longitude: 28 deg. 45 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526264 donor id: AMM 765. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 765. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526265 donor id: AMM 804. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 804. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526266 donor id: AMM 835. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 835. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526267 donor id: AMM 894. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 894. locality: Inst. Trade Fair, Tsolotso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.

PI 526268 to 526594. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by: Rao, S.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 9, 1987.

- PI 526268 donor id: AMM 002. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 002. locality: 8km S of Makoholi, Masvingo Province. latitude: 19 deg. 53 min. S. longitude: 30 deg. 47 min. E. elevation: 1200m. Wild. Seed.

PI 526268 to 526594-continued

- PI 526269 donor id: AMM 003. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 003. locality: Farmland, 11km S of Marinje, Masvingo Province. latitude: 19 deg. 53 min. S. longitude: 30 deg. 47 min. E. elevation: 442m. Primitive Cultivar. Seed.
- PI 526270 donor id: AMM 052. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 052. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 48 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526271 donor id: AMM 060. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 060. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 48 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526272 donor id: AMM 061. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 061. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 25 min. S. longitude: 31 deg. 35 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526273 donor id: AMM 065. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 065. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 25 min. S. longitude: 31 deg. 35 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526274 donor id: AMM 066. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 066. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 25 min. S. longitude: 31 deg. 35 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526275 donor id: AMM 067. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 067. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 25 min. S. longitude: 31 deg. 35 min. E. elevation: 1250m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526276 donor id: AMM 068. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 068. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 25 min. S. longitude: 31 deg. 35 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526277 donor id: AMM 071. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 071. locality: Farmland, Buhera, Masvingo Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526278 donor id: AMM 072. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 072. locality: Farmland, Buhera, Masvingo Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526279 donor id: AMM 073. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 073. locality: Farmland, Buhera, Masvingo Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526280 donor id: AMM 074. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 074. locality: Farmland, Buhera, Masvingo Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526281 donor id: AMM 075. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 075. locality: Farmland, Buhera, Masvingo Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526282 donor id: AMM 076. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 076. locality: Farmland, Buhera, Masvingo Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526283 donor id: AMM 078. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 078. locality: Farmland, 5km N of Mutasa, Masvingo Province. latitude: 19 deg. 23 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526284 donor id: AMM 79. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 79. locality: Farmland, 5km N of Mutasa, Masvingo Province. latitude: 19 deg. 23 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526285 donor id: AMM 080. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 080. locality: Farmland, 5km N of Mutasa, Masvingo Province. latitude: 19 deg. 23 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526286 donor id: AMM 081. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 081. locality: Farmland, 8km N of Maringo, Masvingo Province. latitude: 19 deg. 23 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526287 donor id: AMM 082. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 082. locality: Farmland, 10km N of Changtiwa, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 30 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526288 donor id: AMM 084. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 084. locality: Farmland, 10km N of Changtiwa, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 30 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526289 donor id: AMM 085. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 085. locality: Farmland, 10km N of Changtiwa, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 30 min. E. elevation: 1000m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526290 donor id: AMM 086. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 086. locality: Farmland, 10km N of Changiwa, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 30 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526291 donor id: AMM 089. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 089. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 850m. Primitive Cultivar. Seed.
- PI 526292 donor id: AMM 093. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 093. locality: Farmland, 5km S of Gaza, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 35 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526293 donor id: AMM 094. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 094. locality: Farmland, 8km S of Canary, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 38 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526294 donor id: AMM 099. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 099. locality: Farmland, 8km S of Canary, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 38 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526295 donor id: AMM 100. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 100. locality: Farmland, 8km S of Canary, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 38 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526296 donor id: AMM 101. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 101. locality: Farmland, 10km S of Canary, Masvingo Province. latitude: 19 deg. 31 min. S. longitude: 31 deg. 38 min. E. elevation: 1100m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526297 donor id: AMM 102. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 102. locality: Farmland, 10km S of Canary, Masvingo Province. latitude: 19 deg. 31 min. S. longitude: 31 deg. 38 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526298 donor id: AMM 103. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 103. locality: Farmland, 10km S of Canary, Masvingo Province. latitude: 19 deg. 31 min. S. longitude: 31 deg. 38 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526299 donor id: AMM 104. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 104. locality: Farmland, 10km S of Canary, Masvingo Province. latitude: 19 deg. 31 min. S. longitude: 31 deg. 38 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526300 donor id: AMM 112. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 112. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526301 donor id: AMM 115. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 115. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526302 donor id: AMM 116. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 116. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526303 donor id: AMM 117. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 117. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 900m. Primitive Cultivar. Seed.



PI 526268 to 526594-continued

- PI 526304 donor id: AMM 118. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 118. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526305 donor id: AMM 120. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 120. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526306 donor id: AMM 121. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 121. locality: Farmland, 4km E of Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 800m. Primitive Cultivar. Seed.
- PI 526307 donor id: AMM 123. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 123. locality: Farmland, 4km E of Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 800m. Primitive Cultivar. Seed.
- PI 526308 donor id: AMM 126. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 126. locality: Farmland, 4km E of Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 800m. Primitive Cultivar. Seed.
- PI 526309 donor id: AMM 132. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 132. locality: Farmland, 40km E of Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 750m. Primitive Cultivar. Seed.
- PI 526310 donor id: AMM 134. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 134. locality: Farmland, 40km E of Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 670m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526311 donor id: AMM 135. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 135. locality: Farmland, 40km E of Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 670m. Primitive Cultivar. Seed.
- PI 526312 donor id: AMM 136. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 136. locality: Farmland, 40km E of Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 670m. Primitive Cultivar. Seed.
- PI 526313 donor id: AMM 141. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 141. locality: Farmland, 40km E of Birchenou, Masvingo Province. latitude: 19 deg. 26 min. S. longitude: 31 deg. 45 min. E. elevation: 540m. Primitive Cultivar. Seed.
- PI 526314 donor id: AMM 142. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 142. locality: Farmland, 23km E of Birchenou, Masvingo Province. latitude: 19 deg. 26 min. S. longitude: 31 deg. 45 min. E. elevation: 580m. Primitive Cultivar. Seed.
- PI 526315 donor id: AMM 153. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 153. locality: Farmland, 54km E of Manjire, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 470m. Primitive Cultivar. Seed.
- PI 526316 donor id: AMM 165. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 165. locality: Farmland, 20km S of Ngundu, Masvingo Province. latitude: 20 deg. 45 min. S. longitude: 30 deg. 45 min. E. elevation: 460m. Primitive Cultivar. Seed.
- PI 526317 donor id: AMM 166. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 166. locality: Farmland, 10km S of Ngundu, Masvingo Province. latitude: 20 deg. 45 min. S. longitude: 30 deg. 45 min. E. elevation: 460m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526318 donor id: AMM 170. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 170. locality: Farmland, 5km S of Ngundu, Masvingo Province. latitude: 20 deg. 45 min. S. longitude: 30 deg. 45 min. E. elevation: 600m. Primitive Cultivar. Seed.
- PI 526319 donor id: AMM 171. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 171. locality: Farmland, 5km S of Ngundu, Masvingo Province. latitude: 20 deg. 54 min. S. longitude: 30 deg. 45 min. E. elevation: 600m. Primitive Cultivar. Seed.
- PI 526320 donor id: AMM 173. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 173. locality: Farmland, 20km S of Lundi, Masvingo Province. latitude: 20 deg. 54 min. S. longitude: 30 deg. 45 min. E. elevation: 600m. Primitive Cultivar. Seed.
- PI 526321 donor id: AMM 179. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 179. locality: Farmland, 25km S of Lundi, Masvingo Province. latitude: 20 deg. 54 min. S. longitude: 30 deg. 45 min. E. elevation: 550m. Primitive Cultivar. Seed.
- PI 526322 donor id: AMM 180. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 180. locality: Farmland, 25km S of Lundi, Masvingo Province. latitude: 20 deg. 54 min. S. longitude: 30 deg. 45 min. E. elevation: 550m. Primitive Cultivar. Seed.
- PI 526323 donor id: AMM 181. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 181. locality: Farmland, 25km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 550m. Primitive Cultivar. Seed.
- PI 526324 donor id: AMM 182. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 182. locality: Farmland, 60km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 550m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526325 donor id: AMM 186. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 186. locality: Farmland, 60km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 580m. Primitive Cultivar. Seed.
- PI 526326 donor id: AMM 187. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 187. locality: Farmland, 60km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 580m. Primitive Cultivar. Seed.
- PI 526327 donor id: AMM 188. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 188. locality: Farmland, 60km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 620m. Primitive Cultivar. Seed.
- PI 526328 donor id: AMM 194. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 194. locality: Farmland, 74km N of Neshuro, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526329 donor id: AMM 195. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 195. locality: Farmland, 74km N of Neshuro, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526330 donor id: AMM 200. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 200. locality: Farmland, 74km N of Neshuro, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526331 donor id: AMM 202. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 202. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 900m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526332 donor id: AMM 203. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 203. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.
- PI 526333 donor id: AMM 210. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 210. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.
- PI 526334 donor id: AMM 214. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 214. locality: Farmland, 15km S of Ngomahuru, Masvingo Province. latitude: 20 deg. 25 min. S. longitude: 30 deg. 42 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526335 donor id: AMM 215. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 215. locality: Farmland, 15km S of Ngomahuru, Masvingo Province. latitude: 20 deg. 25 min. S. longitude: 30 deg. 42 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526336 donor id: AMM 216. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 216. locality: Farmland, Kyle, Masvingo Province. latitude: 20 deg. 15 min. S. longitude: 31 deg. 03 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526337 donor id: AMM 223. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 223. locality: Farmland, Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 13 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526338 donor id: AMM 228. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 228. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526339 donor id: AMM 232. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 232. locality: Farmland, 5km S of Nyazura, Masvingo Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 10 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526340 donor id: AMM 240. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 240. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1345m. Primitive Cultivar. Seed.
- PI 526341 donor id: AMM 242. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 242. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1345m. Primitive Cultivar. Seed.
- PI 526342 donor id: AMM 243. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 243. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526343 donor id: AMM 244. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 244. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526344 donor id: AMM 246. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 246. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526345 donor id: AMM 254. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 254. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526346 donor id: AMM 267. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 267. locality: Farmland, 5km S of Nora, Mashonaland East Province. latitude: 17 deg. 50 min. S. longitude: 31 deg. 15 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526347 donor id: AMM 274. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 274. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526348 donor id: AMM 276. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 276. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526349 donor id: AMM 279. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 279. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526350 donor id: AMM 280. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 280. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526351 donor id: AMM 285. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 285. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526352 donor id: AMM 286. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 286. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1400m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526353 donor id: AMM 287. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 287. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526354 donor id: AMM 292. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 292. locality: Farmland, 8km N of Zimunya, Manicaland Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526355 donor id: AMM 294. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 294. locality: Commercial market, Harare, Matabeleland North Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526356 donor id: AMM 297. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 297. locality: Farmland, 8N of Zimunya, Manicaland Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526357 donor id: AMM 316. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 316. locality: Farmland, 8km N of Hotsprings, Manicaland Province. latitude: 19 deg. 38 min. S. longitude: 32 deg. 30 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526358 donor id: AMM 317. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 317. locality: Farmland, 8km of Hotsprings, Manicaland Province. latitude: 19 deg. 38 min. S. longitude: 32 deg. 30 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526359 donor id: AMM 318. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 318. locality: Farmland, 8km N of Hotsprings, Manicaland Province. latitude: 19 deg. 38 min. S. longitude: 32 deg. 30 min. E. elevation: 1400m. Primitive Cultivar. Seed.



PI 526268 to 526594-continued

- PI 526360 donor id: AMM 322. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 322. locality: Farmland, 8km N of Buhera, Manicaland Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526361 donor id: AMM 345. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 345. locality: Farmland, 8km N of Shanya, Masvingo Province. latitude: 17 deg. 18 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526362 donor id: AMM 346. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 346. locality: Farmland, 8km N of Shanya, Masvingo Province. latitude: 17 deg. 18 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526363 donor id: AMM 358. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 358. locality: Farmland, 8km N of Madziwa, Masvingo Province. latitude: 17 deg. 04 min. S. longitude: 31 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526364 donor id: AMM 359. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 359. locality: Farmland, 8km N of Madziwa, Masvingo Province. latitude: 17 deg. 04 min. S. longitude: 31 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526365 donor id: AMM 366. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 366. locality: Farmland, 8km N of Mt. Arvino, Masvingo Province. latitude: 16 deg. 16 min. S. longitude: 31 deg. 30 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526366 donor id: AMM 369. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 369. locality: Farmland, 8km N of Mt. Arvino, Masvingo Province. latitude: 16 deg. 16 min. S. longitude: 31 deg. 30 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526367 donor id: AMM 371. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 371. locality: Farmland, 8km N of Mt. Arvino, Masvingo Province. latitude: 16 deg. 16 min. S. longitude: 31 deg. 30 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526368 donor id: AMM 396. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 396. locality: Farmland, 8km N of Nushumbi, Masvingo Province. latitude: 16 deg. 10 min. S. longitude: 30 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526369 donor id: AMM 420. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 420. locality: Farmland, 8km N of Sinoia, Masvingo Province. latitude: 17 deg. 20 min. S. longitude: 30 deg. 15 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526370 donor id: AMM 421. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 421. locality: Farmland, 8km N of Sinoia, Masvingo Province. latitude: 17 deg. 20 min. S. longitude: 30 deg. 15 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526371 donor id: AMM 430. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 430. locality: Farmland, 8km N of Zawi, Masvingo Province. latitude: 17 deg. 12 min. S. longitude: 30 deg. 02 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526372 donor id: AMM 431. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 431. locality: Farmland, 8km N of Zawi, Masvingo Province. latitude: 17 deg. 12 min. S. longitude: 30 deg. 02 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526373 donor id: AMM 432A. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 432A. locality: Farmland, 8km N of Zawi, Masvingo Province. latitude: 17 deg. 12 min. S. longitude: 30 deg. 02 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526374 donor id: AMM 436. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 436. locality: Farmland, 8km N of Mangula, Masvingo Province. latitude: 16 deg. 52 min. S. longitude: 30 deg. 10 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526375 donor id: AMM 439. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 439. locality: Farmland, 8km N of Mangula, Masvingo Province. latitude: 16 deg. 52 min. S. longitude: 30 deg. 10 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526376 donor id: AMM 440A. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 440A. locality: Farmland, 8km N of Mangula, Masvingo Province. latitude: 16 deg. 52 min. S. longitude: 30 deg. 10 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526377 donor id: AMM 443. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 443. locality: Farmland, 8km N of Mangula, Masvingo Province. latitude: 16 deg. 52 min. S. longitude: 30 deg. 10 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526378 donor id: AMM 445. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 445. locality: Farmland, 8km N of Rafingoa, Masvingo Province. latitude: 17 deg. 02 min. S. longitude: 30 deg. 27 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526379 donor id: AMM 446. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 446. locality: Farmland, 8km N of Rafingoa, Masvingo Province. latitude: 17 deg. 02 min. S. longitude: 30 deg. 27 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526380 donor id: AMM 450. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 450. locality: Farmland, 8km N of Rafingoa, Masvingo Province. latitude: 17 deg. 02 min. S. longitude: 30 deg. 27 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526381 donor id: AMM 451. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 451. locality: Farmland, 8km N of Rafingoa, Masvingo Province. latitude: 17 deg. 02 min. S. longitude: 30 deg. 27 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526382 donor id: AMM 456. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 456. locality: Farmland, 8km N of Sipolilo, Masvingo Province. latitude: 16 deg. 40 min. S. longitude: 30 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526383 donor id: AMM 457. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 457. locality: Farmland, 8km N of Sipolilo, Masvingo Province. latitude: 16 deg. 40 min. S. longitude: 30 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526384 donor id: AMM 459. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 459. locality: Farmland, 8km N of Sipolilo, Masvingo Province. latitude: 16 deg. 40 min. S. longitude: 30 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526385 donor id: AMM 466. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 466. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526386 donor id: AMM 468. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 468. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526387 donor id: AMM 472. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 472. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526388 donor id: AMM 490. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 490. locality: Farmland, 8km N of Mtoko, Masvingo Province. latitude: 17 deg. 23 min. S. longitude: 32 deg. 15 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526389 donor id: AMM 517. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 517. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526390 donor id: AMM 518. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 518. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526391 donor id: AMM 532. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 532. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526392 donor id: AMM 538. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 538. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526393 donor id: AMM 546. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 546. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526394 donor id: AMM 552. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 552. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526395 donor id: AMM 554. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 554. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526396 donor id: AMM 560. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 560. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526397 donor id: AMM 566. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 566. locality: Inst. Trade Fair, 8km N of Ganda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526398 donor id: AMM 576. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 576. locality: Inst. Trade Fair, 8km N of Esigodini, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526399 donor id: AMM 581. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 581. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526400 donor id: AMM 591. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 591. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526401 donor id: AMM 592. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 592. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526402 donor id: AMM 596. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 596. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526403 donor id: AMM 626. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 626. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526404 donor id: AMM 637. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 637. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526405 donor id: AMM 650. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 650. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526406 donor id: AMM 651. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 651. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526407 donor id: AMM 667. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 667. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526408 donor id: AMM 668. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 668. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526409 donor id: AMM 675. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 675. locality: Inst. Trade Fair, Filbusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526410 donor id: AMM 688. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 688. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526411 donor id: AMM 689. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 689. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526412 donor id: AMM 690. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 690. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526413 donor id: AMM 705. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 705. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526414 donor id: AMM 734. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 734. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526415 donor id: AMM 740. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 740. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.



PI 526268 to 526594-continued

- PI 526416 donor id: AMM 759. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 759. locality: Inst. Trade Fair, Bikita, Masvingo Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526417 donor id: AMM 760. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 760. locality: Inst. Trade Fair, Bikita, Masvingo Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526418 donor id: AMM 761. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 761. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526419 donor id: AMM 778. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 778. locality: Inst. Trade Fair, Esigodini, Mashonaland Central Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526420 donor id: AMM 796. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 796. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526421 donor id: AMM 800. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 800. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526422 donor id: AMM 815. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 815. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526423 donor id: AMM 823. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 823. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526424 donor id: AMM 824. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 824. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526425 donor id: AMM 825. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 825. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526426 donor id: AMM 826. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 826. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526427 donor id: AMM 846. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 846. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526428 donor id: AMM 857. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 857. locality: Inst. Trade Fair, Kezi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526429 donor id: AMM 858. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 858. locality: Inst. Trade Fair, Kezi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526430 donor id: AMM 874. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 874. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526431 donor id: AMM 875. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 875. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526432 donor id: AMM 876. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 876. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526433 donor id: AMM 877. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 877. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526434 donor id: AMM 889. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 889. locality: Inst. Trade Fair, Tsoлотso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526435 donor id: AMM 890. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 890. locality: Inst. Trade Fair, Tsoлотso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526436 donor id: AMM 891. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 891. locality: Inst. Trade Fair, Tsoлотso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526437 donor id: AMM 892. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 892. locality: Inst. Trade Fair, Tsolotso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526438 donor id: AMM 893. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 893. locality: Inst. Trade Fair, Tsolotso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526439 donor id: AMM 897. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 897. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 22 min. S. longitude: 26 deg. 20 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526440 donor id: AMM 898. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 898. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 22 min. S. longitude: 26 deg. 20 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526441 donor id: AMM 899. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 899. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 22 min. S. longitude: 26 deg. 20 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526442 donor id: AMM 904. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 904. locality: Inst. Trade Fair, Lvpane, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526443 donor id: AMM 917. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 917. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526444 donor id: AMM 925. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 925. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526445 donor id: AMM 929. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 929. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526446 donor id: AMM 934. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 934. locality: Inst. Trade Fair, Bulima, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526447 donor id: AMM 936. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 936. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526448 donor id: AMM 950. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 950. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526449 donor id: AMM 951. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 951. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526450 donor id: AMM 952. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 952. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526451 donor id: AMM 953. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 953. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526452 donor id: AMM 954. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 954. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526453 donor id: AMM 955. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 955. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526454 donor id: AMM 956. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 956. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526455 donor id: AMM 957. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 957. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526456 donor id: AMM 958. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 958. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526457 donor id: AMM 959. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 959. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526458 donor id: AMM 983. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 983. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526459 donor id: AMM 984. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 984. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526460 donor id: AMM 985. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 985. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526461 donor id: AMM 990. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 990. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526462 donor id: AMM 993. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 993. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526463 donor id: AMM 994. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 994. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526464 donor id: AMM 997. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 997. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526465 donor id: AMM 998. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 998. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526466 donor id: AMM 1000. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1000. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526467 donor id: AMM 1004A. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1004A. locality: Farmland, 8km W of Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 11 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526468 donor id: AMM 1006. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1006. locality: Farmland, 35km E of Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 11 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526469 donor id: AMM 1010. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1010. locality: Farmland, 43km E of Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 11 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526470 donor id: AMM 1015. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1015. locality: Farmland, 8km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 930m. Primitive Cultivar. Seed.
- PI 526471 donor id: AMM 1016. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1016. locality: Farmland, 14km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 880m. Primitive Cultivar. Seed.



PI 526268 to 526594-continued

- PI 526472 donor id: AMM 1017. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1017. locality: Farmland, 18km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526473 donor id: AMM 1019. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1019. locality: Farmland, 58km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526474 donor id: AMM 1022. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1022. locality: Farmland, 58km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526475 donor id: AMM 1023. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1023. locality: Farmland, 58km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526476 donor id: AMM 1032. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1032. locality: Farmland, 20km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526477 donor id: AMM 1035. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1035. locality: Farmland, 26km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526478 donor id: AMM 1036. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1036. locality: Farmland, 19km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1100m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526479 donor id: AMM 1038A. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1038A. locality: Farmland, 19km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526480 donor id: AMM 1042. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1042. locality: Farmland, 5km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526481 donor id: AMM 1043. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1043. locality: Farmland, 13km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526482 donor id: AMM 1044. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1044. locality: Farmland, 13km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526483 donor id: AMM 1045. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1045. locality: Farmland, 13km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526484 donor id: AMM 1046. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1046. locality: Farmland, 13km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526485 donor id: AMM 1048. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1048. locality: Farmland, 13km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526486 donor id: AMM 1054. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1054. locality: Farmland, 18km S of Choita, Mashonaland East Province. latitude: 18 deg. 18 min. S. longitude: 31 deg. 15 min. E. elevation: 1520m. Primitive Cultivar. Seed.
- PI 526487 donor id: AMM 1057. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1057. locality: Farmland, Mahusekare, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 10 min. E. elevation: 1450m. Primitive Cultivar. Seed.
- PI 526488 donor id: AMM 1059. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1059. locality: Farmland, Mahusekare, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 10 min. E. elevation: 1450m. Primitive Cultivar. Seed.
- PI 526489 donor id: AMM 1063. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1063. locality: Farmland, Sekerami, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 10 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526490 donor id: AMM 1066. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1066. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526491 donor id: AMM 1068. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1068. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526492 donor id: AMM 1076. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1076. locality: Farmland, Houlton, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526493 donor id: AMM 1078. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1078. locality: Farmland, Houlton, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526494 donor id: AMM 1082. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1082. locality: Farmland, Houlton, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526495 donor id: AMM 1084. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1084. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 31 deg. 10 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526496 donor id: AMM 1093. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1093. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 31 deg. 10 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526497 donor id: AMM 1094. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1094. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526498 donor id: AMM 1096. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1096. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526499 donor id: AMM 1100. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1100. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526500 donor id: AMM 1105. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1105. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526501 donor id: AMM 1107. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1107. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526502 donor id: AMM 1111. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1111. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526503 donor id: AMM 1112. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1112. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526504 donor id: AMM 1120. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1120. locality: Farmland, Watsomba, Manicaland Province. latitude: 18 deg. 40 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526505 donor id: AMM 1122. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1122. locality: Farmland, Watsomba, Manicaland Province. latitude: 18 deg. 40 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526506 donor id: AMM 1135. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1135. locality: Farmland, Watsomba, Manicaland Province. latitude: 18 deg. 40 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526507 donor id: AMM 1139. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1139. locality: Farmland, Inyanga, Manicaland Province. latitude: 18 deg. 15 min. S. longitude: 32 deg. 45 min. E. elevation: 1600m. Primitive Cultivar. Seed.
- PI 526508 donor id: AMM 1140. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1140. locality: Farmland, Inyanga, Manicaland Province. latitude: 18 deg. 15 min. S. longitude: 30 deg. 45 min. E. elevation: 1600m. Primitive Cultivar. Seed.
- PI 526509 donor id: AMM 1143. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1143. locality: Farmland, Juliasdale, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 30 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526510 donor id: AMM 1144. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1144. locality: Farmland, Juliasdale, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 30 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526511 donor id: AMM 1147. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1147. locality: Farmland, Juliasdale, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 30 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526512 donor id: AMM 1157. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1157. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526513 donor id: AMM 1162. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1162. locality: Farmland, Zimunya, Manicaland Province. latitude: 18 deg. 05 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526514 donor id: AMM 1164. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1164. locality: Farmland, Zimunya, Manicaland Province. latitude: 18 deg. 05 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526515 donor id: AMM 1176. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1176. locality: Farmland, Roa, Manicaland Province. latitude: 19 deg. 12 min. S. longitude: 32 deg. 35 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526516 donor id: AMM 1189. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1189. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526517 donor id: AMM 1194. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1194. locality: Farmland, Cashel, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 48 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526518 donor id: AMM 1206. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1206. locality: Farmland, Musape, Manicaland Province. latitude: 19 deg. 40 min. S. longitude: 32 deg. 55 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526519 donor id: AMM 1210. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1210. locality: Farmland, Musape, Manicaland Province. latitude: 19 deg. 40 min. S. longitude: 32 deg. 55 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526520 donor id: AMM 1213. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1213. locality: Farmland, Melseter, Manicaland Province. latitude: 19 deg. 50 min. S. longitude: 32 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526521 donor id: AMM 1214. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1214. locality: Farmland, Melseter, Manicaland Province. latitude: 19 deg. 50 min. S. longitude: 32 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526522 donor id: AMM 1215. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1215. locality: Farmland, Melseter, Manicaland Province. latitude: 19 deg. 50 min. S. longitude: 32 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526523 donor id: AMM 1216. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1216. locality: Farmland, Melseter, Manicaland Province. latitude: 19 deg. 50 min. S. longitude: 32 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526524 donor id: AMM 1219. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1219. locality: Farmland, Melseter, Manicaland Province. latitude: 19 deg. 50 min. S. longitude: 32 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526525 donor id: AMM 1222. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1222. locality: Farmland, Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526526 donor id: AMM 1223. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1223. locality: Farmland, Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526527 donor id: AMM 1225. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1225. locality: Farmland, Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Primitive Cultivar. Seed.



PI 526268 to 526594-continued

- PI 526528 donor id: AMM 1226. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1226. locality: Farmland, Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526529 donor id: AMM 1227. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1227. locality: Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Wild. Seed.
- PI 526530 donor id: AMM 1228. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1228. locality: Farmland, Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526531 donor id: AMM 1231. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1231. locality: Farmland, Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526532 donor id: AMM 1233. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1233. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526533 donor id: AMM 1256. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1256. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526534 donor id: AMM 1257. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1257. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526535 donor id: AMM 1258. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1258. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526536 donor id: AMM 1259. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1259. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526537 donor id: AMM 1262. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1262. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526538 donor id: AMM 1263. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1263. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526539 donor id: AMM 1264. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1264. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526540 donor id: AMM 1265. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1265. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526541 donor id: AMM 1306. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1306. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526542 donor id: AMM 1318. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1318. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526543 donor id: AMM 1321. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1321. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526544 donor id: AMM 1322. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1322. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526545 donor id: AMM 1325. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1325. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526546 donor id: AMM 1332. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1332. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526547 donor id: AMM 1335. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1335. locality: Commercial market, Shabani, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526548 donor id: AMM 1336. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1336. locality: Commercial market, Shabani, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526549 donor id: AMM 1338. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1338. locality: Commercial market, Shabani, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526550 donor id: AMM 1339. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1339. locality: Commercial market, Shabani, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526551 donor id: AMM 1340. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1340. locality: Commercial market, Shabani, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526552 donor id: AMM 1341. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1341. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526553 donor id: AMM 1342. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1342. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526554 donor id: AMM 1343. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1343. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526555 donor id: AMM 1344. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1344. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526556 donor id: AMM 1345. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1345. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526557 donor id: AMM 1346. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1346. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526558 donor id: AMM 1347. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1347. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526559 donor id: AMM 1348. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1348. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526560 donor id: AMM 1349. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1349. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526561 donor id: AMM 1350. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1350. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526562 donor id: AMM 1351. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1351. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526563 donor id: AMM 1352. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1352. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526564 donor id: AMM 1353. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1353. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526565 donor id: AMM 1354. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1354. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526566 donor id: AMM 1355. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1355. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526567 donor id: AMM 1356. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1356. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526568 donor id: AMM 1357. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1357. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526569 donor id: AMM 1358. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1358. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526570 donor id: AMM 1359. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1359. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526571 donor id: AMM 1360. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1360. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526572 donor id: AMM 1361. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1361. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526573 donor id: AMM 1362. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1362. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526574 donor id: AMM 1363. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1363. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526575 donor id: AMM 1364. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1364. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526576 donor id: AMM 1365. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1365. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526577 donor id: AMM 1366. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1366. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526578 donor id: AMM 1367. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1367. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526579 donor id: AMM 1368. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1368. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526580 donor id: AMM 1369. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1369. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526581 donor id: AMM 1370. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1370. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526582 donor id: AMM 1371. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1371. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526583 donor id: AMM 1372. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1372. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526584 donor id: AMM 1373. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1373. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526585 donor id: AMM 1374. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1374. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526586 donor id: AMM 1375. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1375. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526587 donor id: AMM 1376. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1376. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526268 to 526594-continued

- PI 526588 donor id: AMM 1377. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1377. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526589 donor id: AMM 1378. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1378. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526590 donor id: AMM 1379. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1379. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526591 donor id: AMM 1380. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1380. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526592 donor id: AMM 1386A. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1386A. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526593 donor id: AMM 1416. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1416. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 526594 donor id: AMM 1426. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1426. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526595 to 527253. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Rao, S.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 9, 1987.

- PI 526595 donor id: AMM 010. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 010. locality: Farmland, 5km S of Chitepo, Masvingo Province. latitude: 20 deg. 18 min. S. longitude: 32 deg. 27 min. E. elevation: 380m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 526596 donor id: AMM 011. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 011. locality: Farmland, 5km S of Chitepo, Masvingo Province. latitude: 20 deg. 18 min. S. longitude: 32 deg. 27 min.. elevation: 380m. Primitive Cultivar. Seed.
- PI 526597 donor id: AMM 013. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 013. locality: Farmland, 2km N of Chidurani, Masvingo Province. latitude: 20 deg. 18 min. S. longitude: 32 deg. 27 min.. elevation: 400m. Primitive Cultivar. Seed.
- PI 526598 donor id: AMM 014. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 014. locality: Farmland, 8km N of Mansire, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 32 deg. 29 min. E. elevation: 400m. Primitive Cultivar. Seed.
- PI 526599 donor id: AMM 015. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 015. locality: Farmland, 8km N of Mansire, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 32 deg. 29 min. E. elevation: 400m. Primitive Cultivar. Seed.
- PI 526600 donor id: AMM 016. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 016. locality: Farmland, 8km N of Mansire, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 32 deg. 29 min. E. elevation: 400m. Primitive Cultivar. Seed.
- PI 526601 donor id: AMM 017. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 017. locality: Farmland, 8km N of Mansire, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 32 deg. 29 min. E. elevation: 400m. Primitive Cultivar. Seed.
- PI 526602 donor id: AMM 018. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 018. locality: Farmland, 8km N of Mansire, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 32 deg. 29 min. E. elevation: 400m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526603 donor id: AMM 19. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 19. locality: Farmland, 8km N of Mansire, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 32 deg. 29 min. E. elevation: 400m. Primitive Cultivar. Seed.
- PI 526604 donor id: AMM 020. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 020. locality: Farmland, 8km N of Mansire, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 32 deg. 29 min. E. elevation: 400m. Primitive Cultivar. Seed.
- PI 526605 donor id: AMM 021. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 021. locality: Farmland, Kachisun, Masvingo Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 16 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526606 donor id: AMM 022. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 022. locality: Farmland, Kachisun, Masvingo Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 16 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526607 donor id: AMM 030. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 030. locality: Farmland, Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526608 donor id: AMM 037. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 037. locality: Farmland, Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526609 donor id: AMM 038. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 038. locality: Farmland, Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 1150m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526610 donor id: AMM 039. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 039. locality: Farmland, Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526611 donor id: AMM 040. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 040. locality: Farmland, Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526612 donor id: AMM 054. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 054. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 48 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526613 donor id: AMM 057. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 057. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 48 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526614 donor id: AMM 059. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 059. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 48 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526615 donor id: AMM 062. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 062. locality: Farmland, Brumbura, Masvingo Province. latitude: 19 deg. 25 min. S. longitude: 31 deg. 35 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 526616 donor id: AMM 070. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 070. locality: Farmland, Buhera, Masvingo Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526617 donor id: AMM 077. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 077. locality: Farmland, 5km N of Mutasa, Masvingo Province. latitude: 19 deg. 23 min. S. longitude: 31 deg. 27 min. E. elevation: 1050m. Primitive Cultivar. Seed.
- PI 526618 donor id: AMM 083. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 083. locality: Farmland, 10km N of Changiwa, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 30 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526619 donor id: AMM 088. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 088. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526620 donor id: AMM 091. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 091. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526621 donor id: AMM 092. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 092. locality: Farmland, 5km S of Gaza, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 35 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526622 donor id: AMM 095. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 095. locality: Farmland, 8km S of Canary, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 38 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526623 donor id: AMM 096. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 096. locality: Farmland, 8km S of Canary, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 38 min. E. elevation: 900m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526624 donor id: AMM 097. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 097. locality: Farmland, 8km S of Canary, Masvingo Province. latitude: 19 deg. 30 min. S. longitude: 31 deg. 38 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526625 donor id: AMM 109. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 109. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526626 donor id: AMM 110. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 110. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526627 donor id: AMM 113. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 113. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526628 donor id: AMM 119. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 119. locality: Farmland, Nyashuro, Masvingo Province. latitude: 19 deg. 17 min. S. longitude: 31 deg. 53 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526629 donor id: AMM 122. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 122. locality: Farmland, 4km E of Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 800m. Primitive Cultivar. Seed.
- PI 526630 donor id: AMM 138. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 138. locality: Farmland, 40km E of Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 670m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526631 donor id: AMM 143. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 143. locality: Farmland, 40km E of Birchenou, Masvingo Province. latitude: 19 deg. 26 min. S. longitude: 31 deg. 45 min. E. elevation: 520m. Primitive Cultivar. Seed.
- PI 526632 donor id: AMM 144. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 144. locality: Farmland, 40km E of Birchenou, Masvingo Province. latitude: 19 deg. 26 min. S. longitude: 31 deg. 45 min. E. elevation: 520m. Primitive Cultivar. Seed.
- PI 526633 donor id: AMM 145. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 145. locality: Farmland, 43km E of Birchenou, Masvingo Province. latitude: 19 deg. 06 min. S. longitude: 31 deg. 45 min. E. elevation: 480m. Primitive Cultivar. Seed.
- PI 526634 donor id: AMM 146. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 146. locality: Farmland, 43km E of Birchenou, Masvingo Province. latitude: 19 deg. 26 min. S. longitude: 31 deg. 45 min. E. elevation: 480m. Primitive Cultivar. Seed.
- PI 526635 donor id: AMM 147. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 147. locality: Farmland, 47km E of Birchenou, Masvingo Province. latitude: 19 deg. 26 min. S. longitude: 31 deg. 45 min. E. elevation: 480m. Primitive Cultivar. Seed.
- PI 526636 donor id: AMM 148. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 148. locality: Farmland, 47km E of Birchenou, Masvingo Province. latitude: 19 deg. 26 min. S. longitude: 31 deg. 45 min. E. elevation: 480m. Primitive Cultivar. Seed.
- PI 526637 donor id: AMM 149. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 149. locality: Farmland, 50km E of Rimbi, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 450m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526638 donor id: AMM 150. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 150. locality: Farmland, 50km E of Rimbi, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 450m. Primitive Cultivar. Seed.
- PI 526639 donor id: AMM 151. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 151. locality: Farmland, 54km E of Rimbi, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 470m. Primitive Cultivar. Seed.
- PI 526640 donor id: AMM 152. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 152. locality: Farmland, 54km E of Manjire, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 470m. Primitive Cultivar. Seed.
- PI 526641 donor id: AMM 154. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 154. locality: Farmland, 54km E of Manjire, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 470m. Primitive Cultivar. Seed.
- PI 526642 donor id: AMM 156. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 156. locality: Farmland, Chisumbanje, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 420m. Primitive Cultivar. Seed.
- PI 526643 donor id: AMM 157. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 157. locality: Farmland, Chisumbanje, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 420m. Primitive Cultivar. Seed.
- PI 526644 donor id: AMM 158. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 158. locality: Farmland, Chisumbanje, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 420m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526645 donor id: AMM 159. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 159. locality: Farmland, Chisumbanje, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 45 min. E. elevation: 420m. Primitive Cultivar. Seed.
- PI 526646 donor id: AMM 160. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 160. locality: Farmland, Sabi, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 50 min. E. elevation: 400m. Primitive Cultivar. Seed.
- PI 526647 donor id: AMM 161. origin: Zimbabwe. collected: March 30, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 161. locality: Farmland, Sabi, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 50 min. E. elevation: 375m. Primitive Cultivar. Seed.
- PI 526648 donor id: AMM 162. origin: Zimbabwe. collected: March 30, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 162. locality: Farmland, Sabi, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 50 min. E. elevation: 375m. Primitive Cultivar. Seed.
- PI 526649 donor id: AMM 163. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 163. locality: Farmland, Sabi, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 50 min. E. elevation: 375m. Primitive Cultivar. Seed.
- PI 526650 donor id: AMM 164. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 164. locality: Farmland, Mtirikwe, Masvingo Province. latitude: 19 deg. 28 min. S. longitude: 31 deg. 50 min. E. elevation: 460m. Primitive Cultivar. Seed.
- PI 526651 donor id: AMM 167. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 167. locality: Farmland, 10km S of Ngundu, Masvingo Province. latitude: 20 deg. 45 min. S. longitude: 30 deg. 45 min. E. elevation: 460m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 526652 donor id: AMM 169. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 169. locality: Farmland, 5km S2of Ngundu, Masvingo Province. latitude: 20 deg. 45 min. S. longitude: 30 deg. 45 min. E. elevation: 600m. Primitive Cultivar. Seed.
- PI 526653 donor id: AMM 174. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 174. locality: Farmland, 20km S of Lundi, Masvingo Province. latitude: 20 deg. 54 min. S. longitude: 30 deg. 45 min. E. elevation: 550m. Primitive Cultivar. Seed.
- PI 526654 donor id: AMM 175. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 175. locality: Farmland, 25km S of Lundi, Masvingo Province. latitude: 20 deg. 54 min. S. longitude: 30 deg. 45 min. E. elevation: 550m. Primitive Cultivar. Seed.
- PI 526655 donor id: AMM 176. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 176. locality: Farmland, 25km S of Lundi, Masvingo Province. latitude: 20 deg. 54 min. S. longitude: 30 deg. 45 min. E. elevation: 550m. Primitive Cultivar. Seed.
- PI 526656 donor id: AMM 177. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 177. locality: Farmland, 25km S of Lundi, Masvingo Province. latitude: 20 deg. 54 min. S. longitude: 30 deg. 45 min. E. elevation: 550m. Primitive Cultivar. Seed.
- PI 526657 donor id: AMM 179. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 179. locality: Farmland, 25km S of Lundi, Masvingo Province. latitude: 20 deg. 54 min. S. longitude: 30 deg. 45 min. E. elevation: 550m. Primitive Cultivar. Seed.
- PI 526658 donor id: AMM 184. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 184. locality: Farmland, 60km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 580m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526659 donor id: AMM 185. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 185. locality: Farmland, 60km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 580m. Primitive Cultivar. Seed.
- PI 526660 donor id: AMM 189. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 189. locality: Farmland, 66km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 600m. Primitive Cultivar. Seed.
- PI 526661 donor id: AMM 190. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 190. locality: Farmland, 66km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 600m. Primitive Cultivar. Seed.
- PI 526662 donor id: AMM 191. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 191. locality: Farmland, 66km N of Neshuro, Masvingo Province. latitude: 20 deg. 56 min. S. longitude: 30 deg. 38 min. E. elevation: 600m. Primitive Cultivar. Seed.
- PI 526663 donor id: AMM 193. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 193. locality: Farmland, 74km N of Neshuro, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526664 donor id: AMM 196. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 196. locality: Farmland, 74km N of Neshuro, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526665 donor id: AMM 198. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 198. locality: Farmland, 74km N of Neshuro, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 900m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526666 donor id: AMM 199. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 199. locality: Farmland, 74km N of Neshuro, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526667 donor id: AMM 201. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 201. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 900m. Primitive Cultivar. Seed.
- PI 526668 donor id: AMM 205. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 205. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.
- PI 526669 donor id: AMM 206. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 206. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.
- PI 526670 donor id: AMM 207. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 207. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.
- PI 526671 donor id: AMM 208. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 208. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.
- PI 526672 donor id: AMM 209. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 209. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526673 donor id: AMM 211. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 211. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.
- PI 526674 donor id: AMM 212. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 212. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.
- PI 526675 donor id: AMM 213. origin: Zimbabwe. collected: March 31, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 213. locality: Farmland, 74km N of Zvishavane, Masvingo Province. latitude: 20 deg. 20 min. S. longitude: 30 deg. 05 min. E. elevation: 950m. Primitive Cultivar. Seed.
- PI 526676 donor id: AMM 218. origin: Zimbabwe. collected: April 01, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 218. locality: Farmland, Kyle, Masvingo Province. latitude: 20 deg. 15 min. S. longitude: 31 deg. 03 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526677 donor id: AMM 221. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 221. locality: Farmland, Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 13 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526678 donor id: AMM 225. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 225. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526679 donor id: AMM 226. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 226. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526680 donor id: AMM 227. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 227. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526681 donor id: AMM 230. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 230. locality: Farmland, 5km S of Nyazura, Masvingo Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 10 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526682 donor id: AMM 235. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 235. locality: Farmland, 5km S of Nyazura, Masvingo Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 10 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526683 donor id: AMM 236. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 236. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1345m. Primitive Cultivar. Seed.
- PI 526684 donor id: AMM 237. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 237. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 45 min. E. elevation: 1345m. Primitive Cultivar. Seed.
- PI 526685 donor id: AMM 239. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 239. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1345m. Primitive Cultivar. Seed.
- PI 526686 donor id: AMM 240. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 240. locality: Farmland, Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1345m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526687 donor id: AMM 241. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 241. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526688 donor id: AMM 242. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 242. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526689 donor id: AMM 243. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 243. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526690 donor id: AMM 245. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 245. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526691 donor id: AMM 247. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 247. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526692 donor id: AMM 248. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 248. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526693 donor id: AMM 249. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 249. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526694 donor id: AMM 251. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 251. locality: Farmland, 10km S of Dorowa, Masvingo Province. latitude: 19 deg. 43 min. S. longitude: 31 deg. 48 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526695 donor id: AMM 256. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 256. locality: Farmland, 10km N of Chiredzi, Masvingo Province. latitude: 21 deg. 02 min. S. longitude: 31 deg. 31 min. E. elevation: 430m. Primitive Cultivar. Seed.
- PI 526696 donor id: AMM 258. origin: Zimbabwe. collected: April 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 258. locality: Farmland, 10km N of Chiredzi, Masvingo Province. latitude: 21 deg. 02 min. S. longitude: 31 deg. 31 min. E. elevation: 430m. Primitive Cultivar. Seed.
- PI 526697 donor id: AMM 262. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 262. locality: Farmland, 5km S of Nora, Mashonaland East Province. latitude: 17 deg. 50 min. S. longitude: 31 deg. 15 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526698 donor id: AMM 263. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 263. locality: Farmland, 5km S of Nora, Mashonaland East Province. latitude: 17 deg. 50 min. S. longitude: 31 deg. 15 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526699 donor id: AMM 264. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 264. locality: Farmland, 5km S of Nora, Mashonaland East Province. latitude: 17 deg. 50 min. S. longitude: 31 deg. 15 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526700 donor id: AMM 265. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 265. locality: Farmland, 5km S of Nora, Mashonaland East Province. latitude: 17 deg. 50 min. S. longitude: 31 deg. 15 min. E. elevation: 1400m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526701 donor id: AMM 267. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 267. locality: Farmland, 5km S of Nora, Mashonaland East Province. latitude: 17 deg. 50 min. S. longitude: 31 deg. 15 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526702 donor id: AMM 268. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 268. locality: Farmland, 5km S of Nora, Mashonaland East Province. latitude: 17 deg. 50 min. S. longitude: 31 deg. 15 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526703 donor id: AMM 269. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 269. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526704 donor id: AMM 270. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 270. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526705 donor id: AMM 271. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 271. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526706 donor id: AMM 272. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 272. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526707 donor id: AMM 273. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 273. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 526708 donor id: AMM 277. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 277. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526709 donor id: AMM 278. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 278. locality: Farmland, 15km S of Melfoot, Mashonaland East Province. latitude: 17 deg. 58 min. S. longitude: 31 deg. 20 min. E. elevation: 1320m. Primitive Cultivar. Seed.
- PI 526710 donor id: AMM 281. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 281. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526711 donor id: AMM 283. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 283. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526712 donor id: AMM 284. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 284. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526713 donor id: AMM 288. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 288. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526714 donor id: AMM 289. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 289. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1400m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526715 donor id: AMM 290. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 290. locality: Farmland, 8km N of Zimunya, Manicaland Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526716 donor id: AMM 291. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 291. locality: Farmland, 8km N of Zimunya, Manicaland Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526717 donor id: AMM 293. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 293. locality: Farmland, 8km N of Zimunya, Manicaland Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526718 donor id: AMM 295. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 295. locality: Farmland, 8km N of Zimunya, Manicaland Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526719 donor id: AMM 296. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 296. locality: Farmland, 8km N of Zimunya, Manicaland Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526720 donor id: AMM 299. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 299. locality: Farmland, 8km N of Zimunya, Manicaland Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526721 donor id: AMM 300. origin: Zimbabwe. collected: April 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 300. locality: Farmland, 8km N of Zimunya, Manicaland Province. latitude: 19 deg. 05 min. S. longitude: 32 deg. 38 min. E. elevation: 1350m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526722 donor id: AMM 302. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 302. locality: Farmland, 8km N of Chnyauwhera, Manicaland Province. latitude: 19 deg. 18 min. S. longitude: 32 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526723 donor id: AMM 303. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 303. locality: Farmland, 8km N of Chnyauwhera, Manicaland Province. latitude: 19 deg. 18 min. S. longitude: 32 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526724 donor id: AMM 304. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 304. locality: Farmland, 8km N of Chnyauwhera, Manicaland Province. latitude: 19 deg. 18 min. S. longitude: 32 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526725 donor id: AMM 305. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 305. locality: Farmland, 8km N of Chnyauwhera, Manicaland Province. latitude: 19 deg. 18 min. S. longitude: 32 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526726 donor id: AMM 306. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 306. locality: Farmland, 8km N of Chnyauwhera, Manicaland Province. latitude: 19 deg. 18 min. S. longitude: 32 deg. 35 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526727 donor id: AMM 313. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 313. locality: Farmland, 8km N of Hotsprings, Manicaland Province. latitude: 19 deg. 38 min. S. longitude: 32 deg. 30 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 526728 donor id: AMM 326. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 326. locality: Farmland, 8km N of Buhera, Manicaland Province. latitude: 19 deg. 20 min. S. longitude: 31 deg. 27 min. E. elevation: 1300m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526729 donor id: AMM 335. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 335. locality: Farmland, 8km N of Chipinga, Masvingo Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 526730 donor id: AMM 341. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 341. locality: Farmland, 8km N of Shamva, Masvingo Province. latitude: 17 deg. 18 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526731 donor id: AMM 343. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 343. locality: Farmland, 8km N of Shamva, Masvingo Province. latitude: 17 deg. 18 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526732 donor id: AMM 347. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 347. locality: Farmland, 8km N of Shamva, Masvingo Province. latitude: 17 deg. 18 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526733 donor id: AMM 348. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 348. locality: Farmland, 8km N of Shamva, Masvingo Province. latitude: 17 deg. 18 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526734 donor id: AMM 349. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 349. locality: Farmland, 8km N of Shamva, Masvingo Province. latitude: 17 deg. 18 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526735 donor id: AMM 350. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 350. locality: Farmland, 8km N of Shamva, Masvingo Province. latitude: 17 deg. 18 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526736 donor id: AMM 351. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 351. locality: Farmland, 8km N of Shamva, Masvingo Province. latitude: 17 deg. 18 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526737 donor id: AMM 353. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 353. locality: Farmland, 8km N of Madziwa, Masvingo Province. latitude: 17 deg. 04 min. S. longitude: 31 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526738 donor id: AMM 356. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 356. locality: Farmland, 8km N of Madziwa, Masvingo Province. latitude: 17 deg. 04 min. S. longitude: 31 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526739 donor id: AMM 357. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 357. locality: Farmland, 8km N of Madziwa, Masvingo Province. latitude: 17 deg. 04 min. S. longitude: 31 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526740 donor id: AMM 363. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 363. locality: Farmland, 8km N of Mt. Arvino, Masvingo Province. latitude: 16 deg. 16 min. S. longitude: 31 deg. 30 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526741 donor id: AMM 364. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 364. locality: Farmland, 8km N of Mt. Arvino, Masvingo Province. latitude: 16 deg. 16 min. S. longitude: 31 deg. 30 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526742 donor id: AMM 365. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 365. locality: Farmland, 8km N of Mt. Arvino, Masvingo Province. latitude: 16 deg. 16 min. S. longitude: 31 deg. 30 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526743 donor id: AMM 375. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 375. locality: Farmland, 8km N of Nyamazizi, Masvingo Province. latitude: 17 deg. 45 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526744 donor id: AMM 378. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 378. locality: Farmland, 8km N of Nyamazizi, Masvingo Province. latitude: 17 deg. 45 min. S. longitude: 31 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526745 donor id: AMM 386. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 386. locality: Farmland, 8km N of Karanda, Masvingo Province. latitude: 16 deg. 37 min. S. longitude: 31 deg. 52 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526746 donor id: AMM 387. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 387. locality: Farmland, 8km N of Karando, Masvingo Province. latitude: 16 deg. 37 min. S. longitude: 31 deg. 52 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526747 donor id: AMM 389. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 389. locality: Farmland, 8km N of Karando, Masvingo Province. latitude: 16 deg. 37 min. S. longitude: 31 deg. 52 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526748 donor id: AMM 395. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 395. locality: Farmland, 8km N of Karando, Masvingo Province. latitude: 16 deg. 37 min. S. longitude: 31 deg. 52 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526749 donor id: AMM 398. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 398. locality: Farmland, 8km N of Nushumbi, Masvingo Province. latitude: 16 deg. 10 min. S. longitude: 30 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526750 donor id: AMM 400. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 400. locality: Farmland, 8km N of Nushumbi, Masvingo Province. latitude: 16 deg. 10 min. S. longitude: 30 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526751 donor id: AMM 403. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 403. locality: Farmland, 8km N of Nushumbi, Masvingo Province. latitude: 16 deg. 10 min. S. longitude: 30 deg. 35 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526752 donor id: AMM 406. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 406. locality: Farmland, 8km N of Banket, Masvingo Province. latitude: 17 deg. 22 min. S. longitude: 30 deg. 25 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526753 donor id: AMM 407. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 407. locality: Farmland, 8km N of Banket, Masvingo Province. latitude: 17 deg. 22 min. S. longitude: 30 deg. 25 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526754 donor id: AMM 408. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 408. locality: Farmland, 8km N of Banket, Masvingo Province. latitude: 17 deg. 22 min. S. longitude: 30 deg. 25 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526755 donor id: AMM 409. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 409. locality: Farmland, 8km N of Banket, Masvingo Province. latitude: 17 deg. 22 min. S. longitude: 30 deg. 25 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526756 donor id: AMM 411. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 411. locality: Farmland, 8km N of Banket, Masvingo Province. latitude: 17 deg. 22 min. S. longitude: 30 deg. 25 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526757 donor id: AMM 413. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 413. locality: Farmland, 8km N of Banket, Masvingo Province. latitude: 17 deg. 22 min. S. longitude: 30 deg. 25 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526758 donor id: AMM 414. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 414. locality: Farmland, 8km N of Banket, Masvingo Province. latitude: 17 deg. 22 min. S. longitude: 30 deg. 25 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526759 donor id: AMM 415. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 415. locality: Farmland, 8km N of Banket, Masvingo Province. latitude: 17 deg. 22 min. S. longitude: 30 deg. 25 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526760 donor id: AMM 423. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 423. locality: Farmland, 8km N of Sinoia, Masvingo Province. latitude: 17 deg. 20 min. S. longitude: 30 deg. 15 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526761 donor id: AMM 424. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 424. locality: Farmland, 8km N of Sinoia, Masvingo Province. latitude: 17 deg. 20 min. S. longitude: 30 deg. 15 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526762 donor id: AMM 425. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 425. locality: Farmland, 8km N of Zawi, Masvingo Province. latitude: 17 deg. 12 min. S. longitude: 30 deg. 02 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526763 donor id: AMM 433. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 433. locality: Farmland, 8km N of Zawi, Masvingo Province. latitude: 17 deg. 12 min. S. longitude: 30 deg. 02 min. E. elevation: 1290m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 526764 donor id: AMM 437. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 437. locality: Farmland, 8km N of Mangula, Masvingo Province. latitude: 16 deg. 52 min. S. longitude: 30 deg. 10 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526765 donor id: AMM 438. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 438. locality: Farmland, 8km N of Mangula, Masvingo Province. latitude: 16 deg. 52 min. S. longitude: 30 deg. 10 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526766 donor id: AMM 442. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 442. locality: Farmland, 8km N of Mangula, Masvingo Province. latitude: 16 deg. 52 min. S. longitude: 30 deg. 10 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526767 donor id: AMM 447. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 447. locality: Farmland, 8km N of Rafingoa, Masvingo Province. latitude: 17 deg. 02 min. S. longitude: 30 deg. 27 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526768 donor id: AMM 448. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 448. locality: Farmland, 8km N of Rafingoa, Masvingo Province. latitude: 17 deg. 02 min. S. longitude: 30 deg. 27 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526769 donor id: AMM 452. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 452. locality: Farmland, 8km N of Rafingoa, Masvingo Province. latitude: 17 deg. 02 min. S. longitude: 30 deg. 27 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526770 donor id: AMM 453. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 453. locality: Farmland, 8km N of Rafingoa, Masvingo Province. latitude: 17 deg. 02 min. S. longitude: 30 deg. 27 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526771 donor id: AMM 462. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 462. locality: Farmland, 8km N of Sipolilo, Masvingo Province. latitude: 16 deg. 40 min. S. longitude: 30 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526772 donor id: AMM 464. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 464. locality: Farmland, 8km N of Sipolilo, Masvingo Province. latitude: 16 deg. 40 min. S. longitude: 30 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526773 donor id: AMM 465. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 465. locality: Farmland, 8km N of Sipolilo, Masvingo Province. latitude: 16 deg. 40 min. S. longitude: 30 deg. 40 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526774 donor id: AMM 469. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 469. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526775 donor id: AMM 470. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 470. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526776 donor id: AMM 471. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 471. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526777 donor id: AMM 473. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 473. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526778 donor id: AMM 474. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 474. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526779 donor id: AMM 475. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 475. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526780 donor id: AMM 476. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 476. locality: Farmland, 8km N of Koroi, Masvingo Province. latitude: 16 deg. 38 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526781 donor id: AMM 480. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 480. locality: Farmland, 8km N of Miami, Masvingo Province. latitude: 16 deg. 48 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526782 donor id: AMM 481. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 481. locality: Farmland, 8km N of Miami, Masvingo Province. latitude: 16 deg. 38 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526783 donor id: AMM 482. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 482. locality: Farmland, 8km N of Miami, Masvingo Province. latitude: 16 deg. 38 min. S. longitude: 29 deg. 42 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526784 donor id: AMM 486. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 486. locality: Farmland, 8km N of Mrewa, Masvingo Province. latitude: 17 deg. 38 min. S. longitude: 31 deg. 48 min. E. elevation: 1290m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526785 donor id: AMM 487. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 487. locality: Farmland, 8km N of Mrewa, Masvingo Province. latitude: 17 deg. 38 min. S. longitude: 31 deg. 48 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526786 donor id: AMM 488. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 488. locality: Farmland, 8km N of Mrewa, Masvingo Province. latitude: 17 deg. 38 min. S. longitude: 31 deg. 48 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526787 donor id: AMM 489. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 489. locality: Farmland, 8km N of Mrewa, Masvingo Province. latitude: 17 deg. 38 min. S. longitude: 31 deg. 48 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526788 donor id: AMM 492. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 492. locality: Farmland, 8km N of Mtoko, Masvingo Province. latitude: 17 deg. 23 min. S. longitude: 32 deg. 15 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 526789 donor id: AMM 501. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 501. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526790 donor id: AMM 502. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 502. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526791 donor id: AMM 503. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 503. locality: Farmland, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526792 donor id: AMM 504. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 504. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526793 donor id: AMM 505. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 505. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526794 donor id: AMM 506. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 506. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526795 donor id: AMM 507. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 507. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526796 donor id: AMM 508. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 508. locality: Inst. trade Fair, 8Km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526797 donor id: AMM 510. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 510. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526798 donor id: AMM 513. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 513. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526799 donor id: AMM 514. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 514. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526800 donor id: AMM 520. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 520. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526801 donor id: AMM 521. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 521. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526802 donor id: AMM 527. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 527. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526803 donor id: AMM 528. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 528. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526804 donor id: AMM 530. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 530. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526805 donor id: AMM 531. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 531. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526806 donor id: AMM 533. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 533. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526807 donor id: AMM 534. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 534. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526808 donor id: AMM 535. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 535. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526809 donor id: AMM 536. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 536. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526810 donor id: AMM 540. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 540. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526811 donor id: AMM 541. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 541. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526812 donor id: AMM 542. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 542. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526813 donor id: AMM 543. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 543. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526814 donor id: AMM 544. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 544. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526815 donor id: AMM 545. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 545. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526816 donor id: AMM 547. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 547. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526817 donor id: AMM 548. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 548. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526818 donor id: AMM 550. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 550. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526819 donor id: AMM 553. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 553. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 526820 donor id: AMM 556. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 556. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526821 donor id: AMM 557. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 557. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526822 donor id: AMM 558. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 558. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526823 donor id: AMM 559. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 559. locality: Inst. Trade Fair, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526824 donor id: AMM 562. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 562. locality: Inst. Trade Fair, 8km N of Gwanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526825 donor id: AMM 564. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 564. locality: Inst. Trade Fair, 8km N of Gwanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526826 donor id: AMM 565. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 565. locality: Inst. Trade Fair, 8km N of Gwanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526827 donor id: AMM 567. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 567. locality: Inst. Trade Fair, 8km N of Gnda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526828 donor id: AMM 568. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 568. locality: Inst. Trade Fair, 8km N of Gnda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526829 donor id: AMM 569. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 569. locality: Inst. Trade Fair, 8km N of Esigodini, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526830 donor id: AMM 572. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 572. locality: Inst. Trade Fair, 8km N of Esigodini, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526831 donor id: AMM 573. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 573. locality: Inst. Trade Fair, 8km N of Esigodini, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526832 donor id: AMM 578. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 578. locality: Inst. Trade Fair, 8km N of Inyoza, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526833 donor id: AMM 580. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 580. locality: Inst. Trade Fair, 8km N of Inyoza, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526834 donor id: AMM 584. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 584. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526835 donor id: AMM 586. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 586. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526836 donor id: AMM 587. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 587. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526837 donor id: AMM 588. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 588. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526838 donor id: AMM 589. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 589. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526839 donor id: AMM 590. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 590. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526840 donor id: AMM 593. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 593. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526841 donor id: AMM 594. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 594. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526842 donor id: AMM 598. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 598. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526843 donor id: AMM 599. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 599. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526844 donor id: AMM 604. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 604. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526845 donor id: AMM 605. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 605. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526846 donor id: AMM 606. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 606. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526847 donor id: AMM 607. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 607. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526848 donor id: AMM 610. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 610. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526849 donor id: AMM 611. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 611. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526850 donor id: AMM 612. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 612. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526851 donor id: AMM 613. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 613. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526852 donor id: AMM 622. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 622. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526853 donor id: AMM 623. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 623. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526854 donor id: AMM 624. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 624. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526855 donor id: AMM 631. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 631. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526856 donor id: AMM 632. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 632. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526857 donor id: AMM 633. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 633. locality: Inst. Trade Fair, Gulati, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526858 donor id: AMM 635. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 635. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526859 donor id: AMM 638. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 638. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526860 donor id: AMM 639. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 639. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526861 donor id: AMM 640. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 640. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526862 donor id: AMM 643. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 643. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526863 donor id: AMM 644. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 644. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526864 donor id: AMM 645. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 645. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526865 donor id: AMM 646. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 646. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526866 donor id: AMM 647. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 647. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526867 donor id: AMM 648. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 648. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526868 donor id: AMM 654. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 654. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526869 donor id: AMM 656. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 656. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526870 donor id: AMM 657. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 657. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526871 donor id: AMM 658. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 656. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526872 donor id: AMM 670. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 670. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526873 donor id: AMM 671. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 671. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526874 donor id: AMM 672. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 672. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526875 donor id: AMM 673. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 673. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 526876 donor id: AMM 674. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 674. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526877 donor id: AMM 675. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 675. locality: Inst. Trade Fair, Filbusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526878 donor id: AMM 676. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 676. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526879 donor id: AMM 677. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 677. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526880 donor id: AMM 683. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 683. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526881 donor id: AMM 684. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 684. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526882 donor id: AMM 685. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 685. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526883 donor id: AMM 686. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 686. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526884 donor id: AMM 694. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 694. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526885 donor id: AMM 695. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 695. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526886 donor id: AMM 696. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 696. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526887 donor id: AMM 697. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 697. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526888 donor id: AMM 698. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 698. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526889 donor id: AMM 699. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 699. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526890 donor id: AMM 701. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 701. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526891 donor id: AMM 702. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 702. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526892 donor id: AMM 703. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 703. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526893 donor id: AMM 704. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 704. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526894 donor id: AMM 706. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 706. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526895 donor id: AMM 707. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 707. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526896 donor id: AMM 708. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 708. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526897 donor id: AMM 709. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 709. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526898 donor id: AMM 710. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 710. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526899 donor id: AMM 712. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 712. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526900 donor id: AMM 713. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 713. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526901 donor id: AMM 716. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 716. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526902 donor id: AMM 718. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 718. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526903 donor id: AMM 719. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 719. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526904 donor id: AMM 720. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 720. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 526905 donor id: AMM 721. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 721. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 20 deg. 10 min. S. longitude: 28 deg. 45 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526906 donor id: AMM 722. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 722. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 20 deg. 10 min. S. longitude: 28 deg. 45 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526907 donor id: AMM 723. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 723. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 20 deg. 10 min. S. longitude: 28 deg. 45 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526908 donor id: AMM 729. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 729. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526909 donor id: AMM 730. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 730. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526910 donor id: AMM 731. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 731. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526911 donor id: AMM 732. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 732. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526912 donor id: AMM 733. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 733. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526913 donor id: AMM 740. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 740. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526914 donor id: AMM 741. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 741. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526915 donor id: AMM 742. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 742. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526916 donor id: AMM 743. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 743. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526917 donor id: AMM 744. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 744. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526918 donor id: AMM 748. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 748. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526919 donor id: AMM 749. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 749. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526920 donor id: AMM 750. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 750. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526921 donor id: AMM 751. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 751. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526922 donor id: AMM 752. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 752. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526923 donor id: AMM 754. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 754. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 20 deg. 50 min. S. longitude: 28 deg. 25 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526924 donor id: AMM 755. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 755. locality: Inst. Trade Fair, Bikita, Masvingo Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526925 donor id: AMM 756. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 756. locality: Inst. Trade Fair, Bikita, Masvingo Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526926 donor id: AMM 757. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 757. locality: Inst. Trade Fair, Bikita, Masvingo Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526927 donor id: AMM 758. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 758. locality: Inst. Trade Fair, Bikita, Masvingo Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526928 donor id: AMM 762. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 762. locality: Inst. Trade Fair, Bubi, Mashonaland Central Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526929 donor id: AMM 763. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 763. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526930 donor id: AMM 764. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 764. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526931 donor id: AMM 766. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 766. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 526932 donor id: AMM 767. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 767. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526933 donor id: AMM 768. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 768. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526934 donor id: AMM 783. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 783. locality: Inst. Trade Fair, Esigodini, Mashonaland Central Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526935 donor id: AMM 785. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 785. locality: Inst. Trade Fair, Esigodini, Mashonaland Central Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526936 donor id: AMM 786. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 786. locality: Inst. Trade Fair, Esigodini, Mashonaland Central Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526937 donor id: AMM 787. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 787. locality: Inst. Trade Fair, Esigodini, Mashonaland Central Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 526938 donor id: AMM 788. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 788. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526939 donor id: AMM 789. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 789. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526940 donor id: AMM 790. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 790. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526941 donor id: AMM 791. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 791. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526942 donor id: AMM 792. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 792. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526943 donor id: AMM 798. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 798. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526944 donor id: AMM 799. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 799. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526945 donor id: AMM 801. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 801. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526946 donor id: AMM 806. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 806. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526947 donor id: AMM 807. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 807. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526948 donor id: AMM 808. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 808. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526949 donor id: AMM 809. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 809. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526950 donor id: AMM 811. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 811. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526951 donor id: AMM 812. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 812. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526952 donor id: AMM 814. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 814. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526953 donor id: AMM 816. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 816. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526954 donor id: AMM 818. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 818. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526955 donor id: AMM 819. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 819. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526956 donor id: AMM 820. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 820. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526957 donor id: AMM 821. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 821. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526958 donor id: AMM 822. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 822. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526959 donor id: AMM 830. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 830. locality: Inst. Trade Fair, Filabusi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526960 donor id: AMM 831. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 831. locality: Inst. Trade Fair, Filabusi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526961 donor id: AMM 842. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 842. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526962 donor id: AMM 843. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 843. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526963 donor id: AMM 844. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 844. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526964 donor id: AMM 845. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 845. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526965 donor id: AMM 847. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 847. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526966 donor id: AMM 848. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 848. locality: Inst. Trade Fair, Kezi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526967 donor id: AMM 850. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 850. locality: Inst. Trade Fair, Kezi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526968 donor id: AMM 851. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 851. locality: Inst. Trade Fair, Kezi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526969 donor id: AMM 854. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 854. locality: Inst. Trade Fair, Kezi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526970 donor id: AMM 855. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 855. locality: Inst. Trade Fair, Kezi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526971 donor id: AMM 859. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 859. locality: Inst. Trade Fair, Fingo, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526972 donor id: AMM 861. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 861. locality: Inst. Trade Fair, Fingo, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 526973 donor id: AMM 862. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 862. locality: Inst. Trade Fair, Fingo, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526974 donor id: AMM 866. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 866. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526975 donor id: AMM 867. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 867. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526976 donor id: AMM 869. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 869. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526977 donor id: AMM 870. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 870. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526978 donor id: AMM 871. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 871. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526979 donor id: AMM 872. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 872. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526980 donor id: AMM 873. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 873. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526981 donor id: AMM 878. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 878. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526982 donor id: AMM 879. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 879. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526983 donor id: AMM 880. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 880. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 526984 donor id: AMM 881. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 881. locality: Inst. Trade Fair, Tso lotso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526985 donor id: AMM 882. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 882. locality: Inst. Trade Fair, Tso lotso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526986 donor id: AMM 883. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 883. locality: Inst. Trade Fair, Tso lotso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526987 donor id: AMM 884. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 884. locality: Inst. Trade Fair, Tso lotso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 526988 donor id: AMM 885. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 885. locality: Inst. Trade Fair, Tsoлотso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526989 donor id: AMM 886. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 886. locality: Inst. Trade Fair, Tsoлотso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526990 donor id: AMM 887. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 887. locality: Inst. Trade Fair, Tsoлотso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526991 donor id: AMM 888. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 888. locality: Inst. Trade Fair, Tsoлотso, Mashonaland West Province. latitude: 19 deg. 46 min. S. longitude: 27 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526992 donor id: AMM 896. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 896. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 22 min. S. longitude: 26 deg. 20 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526993 donor id: AMM 900. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 900. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 22 min. S. longitude: 26 deg. 20 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 526994 donor id: AMM 904. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 904. locality: Inst. Trade Fair, Lvpane, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 526995 donor id: AMM 905. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 905. locality: Inst. Trade Fair, Lvpane, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526996 donor id: AMM 906. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 906. locality: Inst. Trade Fair, Lvpane, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526997 donor id: AMM 907. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 907. locality: Inst. Trade Fair, Lvpane, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526998 donor id: AMM 908. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 908. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 526999 donor id: AMM 911. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 911. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527000 donor id: AMM 912. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 912. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527001 donor id: AMM 913. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 913. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527002 donor id: AMM 914. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 914. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527003 donor id: AMM 921. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 921. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527004 donor id: AMM 922. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 922. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527005 donor id: AMM 923. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 923. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527006 donor id: AMM 924. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 924. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527007 donor id: AMM 926. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 926. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527008 donor id: AMM 927. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 927. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527009 donor id: AMM 928. origin: Zimbabwe. collected: February 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 928. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527010 donor id: AMM 931. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 931. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527011 donor id: AMM 932. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 932. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527012 donor id: AMM 933. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 933. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527013 donor id: AMM 937. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 937. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527014 donor id: AMM 938. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 938. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527015 donor id: AMM 939. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 939. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527016 donor id: AMM 940. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 940. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527017 donor id: AMM 942. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 942. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527018 donor id: AMM 943. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 943. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527019 donor id: AMM 944. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 944. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527020 donor id: AMM 945. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 945. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527021 donor id: AMM 946. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 946. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527022 donor id: AMM 947. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 947. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527023 donor id: AMM 948. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 948. locality: Inst. Trade Fair, Ndosikazi, Mashonaland West Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527024 donor id: AMM 989. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 989. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527025 donor id: AMM 991. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 991. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527026 donor id: AMM 992. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 992. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527027 donor id: AMM 994. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 994. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527028 donor id: AMM 1001. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1001. locality: Farmland, 8km W of Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 11 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527029 donor id: AMM 1003. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1003. locality: Farmland, 8km W of Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 11 min. E. elevation: 1000m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527030 donor id: AMM 1004. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1004. locality: Farmland, 8km W of Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 11 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527031 donor id: AMM 1007. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1007. locality: Farmland, 35km E of Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 11 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 527032 donor id: AMM 1008. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1008. locality: Farmland, 35km E of Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 11 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 527033 donor id: AMM 1009. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1009. locality: Farmland, 35km E of Gutu, Masvingo Province. latitude: 19 deg. 38 min. S. longitude: 31 deg. 11 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 527034 donor id: AMM 1014. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1014. locality: Farmland, 8km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 930m. Primitive Cultivar. Seed.
- PI 527035 donor id: AMM 1018. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1018. locality: Farmland, 22km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527036 donor id: AMM 1019. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1019. locality: Farmland, 58km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 1350m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527037 donor id: AMM 1021. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1021. locality: Farmland, 58km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 1100m. Primitive Cultivar. Seed.
- PI 527038 donor id: AMM 1026. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1026. locality: Farmland, 58km S of Dorowa, Masvingo Province. latitude: 19 deg. 02 min. S. longitude: 31 deg. 45 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 527039 donor id: AMM 1028. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1028. locality: Farmland, 58km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527040 donor id: AMM 1029. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1029. locality: Farmland, 58km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 527041 donor id: AMM 1030. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1030. locality: Farmland, 58km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1150m. Primitive Cultivar. Seed.
- PI 527042 donor id: AMM 1034. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1034. locality: Farmland, 26km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527043 donor id: AMM 1038. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1038. locality: Farmland, 19km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1200m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 527044 donor id: AMM 1039. origin: Zimbabwe. collected: April 1, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1039. locality: Farmland, 19km N of Wedza, East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527045 donor id: AMM 1051. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1051. locality: Farmland, 39km N of Wedza, Mashonaland East Province. latitude: 18 deg. 35 min. S. longitude: 31 deg. 35 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527046 donor id: AMM 1061. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1061. locality: Farmland, Sekeramai, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 10 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527047 donor id: AMM 1065. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1065. locality: Farmland, Sekeramai, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 10 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527048 donor id: AMM 1067. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1067. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527049 donor id: AMM 1069. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1069. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527050 donor id: AMM 1070. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1070. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527051 donor id: AMM 1071. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1071. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527052 donor id: AMM 1072. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1072. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527053 donor id: AMM 1073. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1073. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527054 donor id: AMM 1074. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1074. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527055 donor id: AMM 1075. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1075. locality: Farmland, Marondera, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 34 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527056 donor id: AMM 1077. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1077. locality: Farmland, Houlton, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527057 donor id: AMM 1079. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1079. locality: Farmland, Houlton, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527058 donor id: AMM 1080. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1080. locality: Farmland, Houlton, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527059 donor id: AMM 1081. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1081. locality: Farmland, Houlton, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527060 donor id: AMM 1085. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1085. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527061 donor id: AMM 1087. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1087. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527062 donor id: AMM 1089. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1089. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527063 donor id: AMM 1090. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1090. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527064 donor id: AMM 1091. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1091. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527065 donor id: AMM 1092. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1092. locality: Farmland, Rusape, Manicaland Province. latitude: 18 deg. 32 min. S. longitude: 32 deg. 10 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527066 donor id: AMM 1095. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1095. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527067 donor id: AMM 1097. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1097. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527068 donor id: AMM 1098. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1098. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527069 donor id: AMM 1099. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1099. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527070 donor id: AMM 1101. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1101. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527071 donor id: AMM 1102. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1102. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527072 donor id: AMM 1103. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1103. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527073 donor id: AMM 1104. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1104. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527074 donor id: AMM 1106. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1106. locality: Farmland, Nyazura, Manicaland Province. latitude: 18 deg. 42 min. S. longitude: 32 deg. 11 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527075 donor id: AMM 1108. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1108. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527076 donor id: AMM 1109. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1109. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527077 donor id: AMM 1110. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1110. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527078 donor id: AMM 1113. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1113. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527079 donor id: AMM 1114. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1114. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527080 donor id: AMM 1116. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1116. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527081 donor id: AMM 1117. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1117. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527082 donor id: AMM 1118. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1118. locality: Farmland, Mutare, Manicaland Province. latitude: 18 deg. 58 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527083 donor id: AMM 1121. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1121. locality: Farmland, Watsomba, Manicaland Province. latitude: 18 deg. 40 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527084 donor id: AMM 1125. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1125. locality: Farmland, Watsomba, Manicaland Province. latitude: 18 deg. 40 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527085 donor id: AMM 1126. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1126. locality: Farmland, Watsomba, Manicaland Province. latitude: 18 deg. 40 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527086 donor id: AMM 1129. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1129. locality: Farmland, Inyanga, Manicaland Province. latitude: 18 deg. 15 min. S. longitude: 32 deg. 45 min. E. elevation: 1600m. Primitive Cultivar. Seed.
- PI 527087 donor id: AMM 1130. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1130. locality: Farmland, Inyanga, Manicaland Province. latitude: 18 deg. 15 min. S. longitude: 32 deg. 45 min. E. elevation: 1600m. Primitive Cultivar. Seed.
- PI 527088 donor id: AMM 1131. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1131. locality: Farmland, Inyanga, Manicaland Province. latitude: 18 deg. 15 min. S. longitude: 32 deg. 45 min. E. elevation: 1600m. Primitive Cultivar. Seed.
- PI 527089 donor id: AMM 1132. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1132. locality: Farmland, Inyanga, Manicaland Province. latitude: 18 deg. 15 min. S. longitude: 32 deg. 45 min. E. elevation: 1600m. Primitive Cultivar. Seed.
- PI 527090 donor id: AMM 1133. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1133. locality: Farmland, Inyanga, Manicaland Province. latitude: 18 deg. 15 min. S. longitude: 32 deg. 45 min. E. elevation: 1600m. Primitive Cultivar. Seed.
- PI 527091 donor id: AMM 1134. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1134. locality: Farmland, Inyanga, Manicaland Province. latitude: 18 deg. 15 min. S. longitude: 32 deg. 45 min. E. elevation: 1600m. Primitive Cultivar. Seed.
- PI 527092 donor id: AMM 1136. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1136. locality: Farmland, Inyanga, Manicaland Province. latitude: 18 deg. 15 min. S. longitude: 32 deg. 45 min. E. elevation: 1600m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527093 donor id: AMM 1142. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1142. locality: Farmland, Juliasdale, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 30 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527094 donor id: AMM 1145. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1145. locality: Farmland, Juliasdale, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 30 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527095 donor id: AMM 1146. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1146. locality: Farmland, Juliasdale, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 30 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527096 donor id: AMM 1148. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1148. locality: Farmland, Juliasdale, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 30 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527097 donor id: AMM 1149. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1149. locality: Farmland, Juliasdale, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 30 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527098 donor id: AMM 1151. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1151. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527099 donor id: AMM 1152. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1152. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 527100 donor id: AMM 1153. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1153. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527101 donor id: AMM 1154. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1154. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527102 donor id: AMM 1156. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1156. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527103 donor id: AMM 1158. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1158. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527104 donor id: AMM 1159. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1159. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527105 donor id: AMM 1160. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1160. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527106 donor id: AMM 1161. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1161. locality: Farmland, Sanyakwe, Manicaland Province. latitude: 18 deg. 22 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527107 donor id: AMM 1165. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1165. locality: Farmland, Zimunya, Manicaland Province. latitude: 18 deg. 05 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527108 donor id: AMM 1166. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1166. locality: Farmland, Zimunya, Manicaland Province. latitude: 18 deg. 05 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527109 donor id: AMM 1167. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1167. locality: Farmland, Zimunya, Manicaland Province. latitude: 18 deg. 05 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527110 donor id: AMM 1169. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1169. locality: Farmland, Zimunya, Manicaland Province. latitude: 18 deg. 05 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527111 donor id: AMM 1170. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1170. locality: Farmland, Zimunya, Manicaland Province. latitude: 18 deg. 05 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527112 donor id: AMM 1171. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1171. locality: Farmland, Zimunya, Manicaland Province. latitude: 18 deg. 05 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527113 donor id: AMM 1172. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1172. locality: Farmland, Zimunya, Manicaland Province. latitude: 18 deg. 05 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527114 donor id: AMM 1177. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1177. locality: Farmland, Rowa, Manicaland Province. latitude: 19 deg. 12 min. S. longitude: 32 deg. 35 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527115 donor id: AMM 1178. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1178. locality: Farmland, Rowa, Manicaland Province. latitude: 19 deg. 12 min. S. longitude: 32 deg. 35 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527116 donor id: AMM 1179. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1179. locality: Farmland, Rowa, Manicaland Province. latitude: 19 deg. 12 min. S. longitude: 32 deg. 35 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527117 donor id: AMM 1180. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1180. locality: Farmland, Rowa, Manicaland Province. latitude: 19 deg. 12 min. S. longitude: 32 deg. 35 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527118 donor id: AMM 1181. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1181. locality: Farmland, Rowa, Manicaland Province. latitude: 19 deg. 12 min. S. longitude: 32 deg. 35 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527119 donor id: AMM 1182. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1182. locality: Farmland, Rowa, Manicaland Province. latitude: 19 deg. 12 min. S. longitude: 32 deg. 35 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527120 donor id: AMM 1183. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1183. locality: Farmland, Rowa, Manicaland Province. latitude: 19 deg. 12 min. S. longitude: 32 deg. 35 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527121 donor id: AMM 1184. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1184. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527122 donor id: AMM 1185. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1185. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527123 donor id: AMM 1186. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1186. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527124 donor id: AMM 1188. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1188. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527125 donor id: AMM 1190. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1190. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527126 donor id: AMM 1191. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1191. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527127 donor id: AMM 1192. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1192. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 40 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527128 donor id: AMM 1193. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1193. locality: Farmland, Mutambare, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 48 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527129 donor id: AMM 1196. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1196. locality: Farmland, Cashel, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 48 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527130 donor id: AMM 1218. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1218. locality: Farmland, Melseter, Manicaland Province. latitude: 19 deg. 50 min. S. longitude: 32 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527131 donor id: AMM 1220. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1220. locality: Farmland, Melseter, Manicaland Province. latitude: 19 deg. 50 min. S. longitude: 32 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527132 donor id: AMM 1221. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1221. locality: Farmland, Melseter, Manicaland Province. latitude: 19 deg. 50 min. S. longitude: 32 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527133 donor id: AMM 1224. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1224. locality: Farmland, Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527134 donor id: AMM 1229. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1229. locality: Farmland, Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527135 donor id: AMM 1230. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1230. locality: Farmland, Rusitu, Manicaland Province. latitude: 20 deg. 02 min. S. longitude: 32 deg. 52 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527136 donor id: AMM 1234. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1234. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527137 donor id: AMM 1235. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1235. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527138 donor id: AMM 1236. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1236. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527139 donor id: AMM 1238. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1238. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527140 donor id: AMM 1239. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1239. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527141 donor id: AMM 1240. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1240. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527142 donor id: AMM 1241. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1241. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527143 donor id: AMM 1242. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1242. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527144 donor id: AMM 1243. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1243. locality: Farmland, Shainga, Manicaland Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527145 donor id: AMM 1245. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1245. locality: Farmland, JN Gate, Manicaland Province. latitude: 20 deg. 10 min. S. longitude: 32 deg. 46 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527146 donor id: AMM 1248. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1248. locality: Farmland, JN Gate, Manicaland Province. latitude: 20 deg. 10 min. S. longitude: 32 deg. 46 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527147 donor id: AMM 1260. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1260. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527148 donor id: AMM 1261. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1261. locality: Farmland, Espungera, Manicaland Province. latitude: 20 deg. 26 min. S. longitude: 32 deg. 47 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527149 donor id: AMM 1274. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1274. locality: Farmland, Binga, Matabeleland North Province. latitude: 17 deg. 37 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527150 donor id: AMM 1275. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1275. locality: Farmland, Binga, Matabeleland North Province. latitude: 17 deg. 37 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527151 donor id: AMM 1276. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1276. locality: Farmland, Binga, Matabeleland North Province. latitude: 17 deg. 37 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527152 donor id: AMM 1277. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1277. locality: Farmland, Chabwatata, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527153 donor id: AMM 1278. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1278. locality: Farmland, Chabwatata, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527154 donor id: AMM 1279. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1279. locality: Farmland, Chabwatata, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527155 donor id: AMM 1280. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1280. locality: Farmland, Chabwatata, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 527156 donor id: AMM 1281. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1281. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527157 donor id: AMM 1282. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1282. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527158 donor id: AMM 1283. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1283. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527159 donor id: AMM 1284. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1284. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527160 donor id: AMM 1285. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1285. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527161 donor id: AMM 1286. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1286. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527162 donor id: AMM 1287. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1287. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527163 donor id: AMM 1288. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1288. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527164 donor id: AMM 1289. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1289. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527165 donor id: AMM 1290. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1290. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527166 donor id: AMM 1291. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1291. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527167 donor id: AMM 1292. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1292. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527168 donor id: AMM 1293. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1293. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527169 donor id: AMM 1294. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1294. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527170 donor id: AMM 1295. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1295. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527171 donor id: AMM 1305. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1305. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527172 donor id: AMM 1307. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1307. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527173 donor id: AMM 1308. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1308. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527174 donor id: AMM 1309. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1309. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527175 donor id: AMM 1310. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1310. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527176 donor id: AMM 1311. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1311. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527177 donor id: AMM 1312. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1312. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527178 donor id: AMM 1313. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1313. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527179 donor id: AMM 1314. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1314. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527180 donor id: AMM 1315. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1315. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527181 donor id: AMM 1316. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1316. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527182 donor id: AMM 1317. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1317. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527183 donor id: AMM 1319. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1319. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527184 donor id: AMM 1323. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1323. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527185 donor id: AMM 1324. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1324. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527186 donor id: AMM 1327. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1327. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527187 donor id: AMM 1328. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1328. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527188 donor id: AMM 1330. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1330. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527189 donor id: AMM 1331. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1331. locality: Farmland, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527190 donor id: AMM 1381. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1381. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527191 donor id: AMM 1382. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1382. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527192 donor id: AMM 1383. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1383. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527193 donor id: AMM 1384. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1384. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527194 donor id: AMM 1385. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1385. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527195 donor id: AMM 1386. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1386. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527196 donor id: AMM 1387. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1387. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527197 donor id: AMM 1388. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1388. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527198 donor id: AMM 1389. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1389. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527199 donor id: AMM 1391. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1391. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527200 donor id: AMM 1392. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1392. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527201 donor id: AMM 1393. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1393. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527202 donor id: AMM 1395. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1395. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527203 donor id: AMM 1396. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1396. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527204 donor id: AMM 1397. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1397. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527205 donor id: AMM 1398. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1398. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527206 donor id: AMM 1399. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1399. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527207 donor id: AMM 1400. origin: Zimbabwe. collected: May 5, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1400. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527208 donor id: AMM 1401. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1401. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527209 donor id: AMM 1403. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1403. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527210 donor id: AMM 1404. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1404. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527211 donor id: AMM 1405. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1405. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527212 donor id: AMM 1407. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1407. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527213 donor id: AMM 1408. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1408. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527214 donor id: AMM 1409. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1409. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527215 donor id: AMM 1410. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1410. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527216 donor id: AMM 1411. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1411. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527217 donor id: AMM 1412. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1412. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527218 donor id: AMM 1413. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1413. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527219 donor id: AMM 1414. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1414. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527220 donor id: AMM 1415. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1415. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527221 donor id: AMM 1417. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1417. locality: Inst. Trade Fair. Primitive Cultivar. Seed.



PI 526595 to 527253-continued

- PI 527222 donor id: AMM 1418. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1418. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527223 donor id: AMM 1419. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1419. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527224 donor id: AMM 1420. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1420. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527225 donor id: AMM 1421. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1421. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527226 donor id: AMM 1422. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1422. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527227 donor id: AMM 1423. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1423. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527228 donor id: AMM 1424. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1424. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527229 donor id: AMM 1425. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1425. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527230 donor id: AMM 1427. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1427. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527231 donor id: AMM 1428. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1428. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527232 donor id: AMM 1447. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1447. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527233 donor id: AMM 1448. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1448. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527234 donor id: AMM 1457. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1457. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527235 donor id: AMM 1490. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1490. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527236 donor id: AMM 1491. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1491. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527237 donor id: AMM 1492. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1492. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527238 donor id: AMM 1493. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1493. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527239 donor id: AMM 1494. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1494. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527240 donor id: AMM 1495. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1495. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527241 donor id: AMM 1496. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1496. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

- PI 527242 donor id: AMM 1498. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1498. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527243 donor id: AMM 1499. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1499. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527244 donor id: AMM 1500. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1500. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527245 donor id: AMM 1501. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1501. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527246 donor id: AMM 1502. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1502. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527247 donor id: AMM 1503. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1503. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527248 donor id: AMM 1504. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1504. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527249 donor id: AMM 1505. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1505. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527250 donor id: AMM 1506. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1506. locality: Inst. Trade Fair. Primitive Cultivar. Seed.
- PI 527251 donor id: AMM 1508. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1508. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 526595 to 527253-continued

PI 527252 donor id: AMM 1509. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1509. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 527253 donor id: AMM 1510. origin: Zimbabwe. collected: May 8, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1510. locality: Inst. Trade Fair. Primitive Cultivar. Seed.

PI 527254 to 527256. Sorghum sp. POACEAE

Donated by: Rao, S.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 9, 1987.

PI 527254 donor id: AMM 025. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 025. locality: Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 1150m. Wild. Seed.

PI 527255 donor id: AMM 036. origin: Zimbabwe. collected: March 28, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 036. locality: Farmland, Birchenou, Masvingo Province. latitude: 19 deg. 55 min. S. longitude: 32 deg. 20 min. E. elevation: 1150m. Wild. Seed.

PI 527256 donor id: AMM 1212. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1212. locality: Musape, Manicaland Province. latitude: 19 deg. 40 min. S. longitude: 32 deg. 55 min. E. elevation: 1400m. Wild. Seed.

PI 527257 to 527306. Vigna unguiculata (L.) Walp. FABACEAE

Donated by: Rao, S.A., IBPGR, Rome, Italy. remarks: Received through IBPGR, Rome, Italy. Received February 9, 1987.

PI 527257 donor id: AMM 043. origin: Zimbabwe. collected: March 29, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 043. locality: Farmland, 5km S of Chivuhu, Masvingo Province. latitude: 19 deg. 50 min. S. longitude: 32 deg. 12 min. E. elevation: 1400m. Primitive Cultivar. Seed.

PI 527257 to 527306-continued

- PI 527258 donor id: AMM 329. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 329. locality: Farmland, 8km N of Chipinga, Masvingo Province. latitude: 20 deg. 12 min. S. longitude: 32 deg. 36 min. E. elevation: 1350m. Primitive Cultivar. Seed.
- PI 527259 donor id: AMM 338. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 338. locality: Farmland, 8km N of Chirinda, Masvingo Province. latitude: 20 deg. 25 min. S. longitude: 32 deg. 41 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 527260 donor id: AMM 390. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 390. locality: Farmland, 8km N of Karanda, Masvingo Province. latitude: 16 deg. 37 min. S. longitude: 31 deg. 52 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 527261 donor id: AMM 484. origin: Zimbabwe. collected: April 6, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 484. locality: Farmland, 8km N of Mrewa, Masvingo Province. latitude: 17 deg. 38 min. S. longitude: 31 deg. 48 min. E. elevation: 1290m. Primitive Cultivar. Seed.
- PI 527262 donor id: AMM 537. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 537. locality: Farmland, 8km N of Kezi, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 28 deg. 30 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527263 donor id: AMM 563. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 563. locality: Farmland, 8km N of Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527264 donor id: AMM 571. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 571. locality: Farmland, 8km N of Esigodini, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 527257 to 527306-continued

- PI 527265 donor id: AMM 595. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 595. locality: Inst. Trade Fair, Inyozan, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527266 donor id: AMM 601. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 601. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527267 donor id: AMM 617. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 617. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527268 donor id: AMM 627. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 627. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527269 donor id: AMM 628. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 628. locality: Inst. Trade Fair, Gulati, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527270 donor id: AMM 665. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 665. locality: Inst. Trade Fair, Filabusi, Mashonaland West Province. latitude: 20 deg. 32 min. S. longitude: 29 deg. 17 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527271 donor id: AMM 681. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 681. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.

PI 527257 to 527306-continued

- PI 527272 donor id: AMM 682. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 682. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 19 deg. 00 min. S. longitude: 28 deg. 55 min. E. elevation: 1200m. Primitive Cultivar. Seed.
- PI 527273 donor id: AMM 726. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 726. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 20 deg. 10 min. S. longitude: 28 deg. 45 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527274 donor id: AMM 770. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 770. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527275 donor id: AMM 771. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 771. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527276 donor id: AMM 772. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 772. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527277 donor id: AMM 777. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 777. locality: Inst. Trade Fair, Esigodini, Mashonaland Central Province. latitude: 20 deg. 05 min. S. longitude: 31 deg. 40 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527278 donor id: AMM 793. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 793. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 527257 to 527306-continued

- PI 527279 donor id: AMM 794. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 794. locality: Inst. Trade Fair, Hwange, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527280 donor id: AMM 805. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 805. locality: Inst. Trade Fair, Kezi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527281 donor id: AMM 833. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 833. locality: Inst. Trade Fair, Filabusi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527282 donor id: AMM 834. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 834. locality: Inst. Trade Fair, Filabusi, Mashonaland Central Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527283 donor id: AMM 837. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 837. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527284 donor id: AMM 838. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 838. locality: Inst. Trade Fair, Nkayi, Mashonaland West Province. latitude: 18 deg. 23 min. S. longitude: 26 deg. 25 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527285 donor id: AMM 865. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 865. locality: Inst. Trade Fair, Gnanda, Mashonaland Central Province. latitude: 20 deg. 55 min. S. longitude: 29 deg. 00 min. E. elevation: 1150m. Primitive Cultivar. Seed.



PI 527257 to 527306-continued

- PI 527286 donor id: AMM 915. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 915. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527287 donor id: AMM 916. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 916. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527288 donor id: AMM 922. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 922. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527289 donor id: AMM 923. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 923. locality: Inst. Trade Fair, Bubi, Mashonaland West Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527290 donor id: AMM 935. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 935. locality: Inst. Trade Fair, Bulima, Mashonaland Central Province. latitude: 18 deg. 55 min. S. longitude: 27 deg. 46 min. E. elevation: 1000m. Primitive Cultivar. Seed.
- PI 527291 donor id: AMM 976. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 976. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527292 donor id: AMM 977. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 977. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.

PI 527257 to 527306-continued

- PI 527293 donor id: AMM 978. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 978. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527294 donor id: AMM 979. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 979. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527295 donor id: AMM 980. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 980. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527296 donor id: AMM 981. origin: Zimbabwe. collected: May 2, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 981. locality: Inst. Trade Fair, Phezini, Mashonaland Central Province. latitude: 19 deg. 20 min. S. longitude: 28 deg. 30 min. E. elevation: 1250m. Primitive Cultivar. Seed.
- PI 527297 donor id: AMM 1058. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1058. locality: Farmland, Mahusekare, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 10 min. E. elevation: 1450m. Primitive Cultivar. Seed.
- PI 527298 donor id: AMM 1064. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1064. locality: Farmland, Sekeramai, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 10 min. E. elevation: 1300m. Primitive Cultivar. Seed.
- PI 527299 donor id: AMM 1083. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1083. locality: Farmland, Houlton, Mashonaland East Province. latitude: 18 deg. 10 min. S. longitude: 31 deg. 45 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 527257 to 527306-continued

- PI 527300 donor id: AMM 1196. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1196. locality: Farmland, Cashel, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 48 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527301 donor id: AMM 1200. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1200. locality: Farmland, Cashel, Manicaland Province. latitude: 19 deg. 32 min. S. longitude: 32 deg. 48 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527302 donor id: AMM 1208. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1208. locality: Farmland, Musape, Manicaland Province. latitude: 19 deg. 40 min. S. longitude: 32 deg. 55 min. E. elevation: 1400m. Primitive Cultivar. Seed.
- PI 527303 donor id: AMM 1244. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1244. locality: Farmland, JN Gate, Manicaland Province. latitude: 20 deg. 10 min. S. longitude: 32 deg. 46 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527304 donor id: AMM 1296. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1296. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527305 donor id: AMM 1297. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1297. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.
- PI 527306 donor id: AMM 1298. origin: Zimbabwe. collected: April 3, 1985. collector: Rao, Mushonga and Muza. collector id: AMM 1298. locality: Commercial market, Harare, Matabeleland North Province. latitude: 17 deg. 35 min. S. longitude: 27 deg. 22 min. E. elevation: 1500m. Primitive Cultivar. Seed.

PI 527307. *Beta vulgaris* L. CHENOPODIACEAE Sugarbeet

**Donated by:** Campbell, L.G.; Bugbee, W.M., Northern Crop Science Laboratory,, USDA-ARS, North Dakota State University, P.O. Box 5677, Fargo, North Dakota, United States. **remarks:** Released by the USDA-ARS and the North Dakota Agricultural Experiment Station in April 1988. Received November 21, 1988.

**donor id:** F1009. **origin:** United States. **pedigree:** Forty-two plants from 12 sixth-cycle families. **other id:** GP-130. **group:** CSR-SUGARBEET. **remarks:** Roots resistant to three major storage-rot fungi and have very low postharvest storage-respiration rate. Plants heterogenous for various traits. Roots white skinned with white flesh. Internal CO<sub>2</sub> concentration 28% below hybrids. Root yield and fresh weight sucrose 75% and 80% of commercial hybrids. Potential use in developing improved storability. **disease resistance:** Storage rots *Phoma betae*, *Penicillium claviforme*. *Botrytis cinerea*. Breeding Material. Seed.

PI 527308. *Nicotiana tabacum* L. SOLANACEAE Tobacco

**Donated by:** Pittarelli, G.W., Plant Sciences Institute, USDA-ARS, Beltsville, Maryland, United States; and Sisson, V.A., Crops Research Laboratory, USDA-ARS, P.O. Box 1555, Oxford, North Carolina, United States. Received November 18, 1988.

**donor id:** Bel MS-2. **origin:** United States. **pedigree:** *N. rustica* (2n)/7\*Md 609(4n *N. tabacum*). **other id:** GP-36. **group:** CSR-TOBACCO. **remarks:** Alloplasmic cytoplasmic male-sterile type with nuclear genome of *N. tabacum* in cytoplasm of *N. rustica*. Plants genetically stable in morphology and male sterility. Anthers stigmatoid. Utility as a cytoplasmic marker, as a taxonomic tool, in basic studies of alloplasmic male sterility, and as potential alternative for hybrid seed production. Breeding Material. Seed.

PI 527309. *Medicago sativa* L. FABACEAE Alfalfa

**Donated by:** Havey, M; Irwin, J; Maxwell, D, Department of Plant Pathology, University of Wisconsin, Madison, Wisconsin, United States. **remarks:** Released by the Wisconsin Agricultural Experiment Station in October, 1988. Received November 18, 1988.

PI 527309-continued

**donor id:** WAPRS-4. **origin:** United States. **pedigree:** Hand polycrossing 60 4x plants resistant to two diseases. Pollen parent Arc-2. **other id:** GP-214. **group:** CSR-ALFALFA. **remarks:** Plants tetraploid (2n-4x-32) synthetic. Combined resistance to Phytophthora root rot derived from *M. falcata* (PI 410970) and from the 4x plant M193 (sel. from Nickerson Amer. Plant Breeders line 0310). **disease resistance:** Phytophthora root rot. (*Phytophthora megasperma* f. sp. *medicaginis*). Anthracnose (*Colletotrichum trifolii*). Perennial. Breeding Material. Seed.

PI 527310 to 527311. *Phaseolus vulgaris* L. FABACEAE Pinto bean

**Donated by:** Staveley, J.R., Microbiology and Plant Pathology Lab., Plant Sciences Institute, USDA-ARS, Bldg. 011A, Rm. 252, Beltsville, Maryland, United States; and Grafton, K.F., Department of Agronomy, North Dakota State University, Fargo, North Dakota, United States. **remarks:** Released by USDA-ARS and the North Dakota Agricultural Experiment Station in July 1988. Received November 18, 1988.

PI 527310 **donor id:** Beldak-RR-1. **origin:** United States. **pedigree:** F5 sel. from 4-2537//Bel 4-844\*/Bel 2-623. **other id:** GP-76. **group:** CSR-OTHER LEGUMES. **remarks:** Beldak-rust resistant line. Plants have short prostrate vine growth habit (type III). Seed color, size, and shape characteristics conform to the Amer. pinto bean market class. Selected for release because contained maximal number of genes for rust resistance. **disease resistance:** Homogygous to 33 North Amer. races of bean rust. (*Uromyces appendiculatus*). Breeding Material. Seed.

PI 527311 **donor id:** Beldak-RR-2. **origin:** United States. **pedigree:** F5 sel. from 4-2537//Bel 4-844\*/Bel 2-623. **other id:** GP-77. **group:** CSR-OTHER LEGUMES. **remarks:** Beldak-rust resistant line. Plants have short prostrate vine growth habit (type III). Seed color, size, and shape characteristics conform to the Amer. pinto bean market class. Selected for release because contained maximal number of genes for rust resistance. **disease resistance:** Homogygous to 33 North Amer. races of bean rust. (*Uromyces appendiculatus*). Breeding Material. Seed.

PI 527312. *Poa pratensis* L. POACEAE Kentucky bluegrass

**Donated by:** Brilman, L.A., Biology Department, California State College, 9001 Stockdale Highway, Bakersfield, California, United States. **remarks:** Developed and released in October 1986 by Jacklin Seed Co. and Garfield Williamson in cooperation with the New Jersey Agric. Experiment Station. Received November 18, 1988.

PI 527312-continued

donor id: A-609. origin: United States. cultivar: LIBERTY. pedigree: Progeny from facultative plant from NJE P-123/PSU K-106. other id: CV-33. group: CSR-BLUEGRASS. other id: JW-4. other id: PVPO Cert. No. 8800007. group: PVPO. remarks: Plants leafy, moderately low growing, turf-type with abundant spreading rhizomes, highly apomictic. Vigor good. Seed yield high with good quality. Turf attractive with medium texture, medium density, dark green color. Color retention well into late fall and early winter with good early spring greenup. disease resistance: Leafspot, melting-out-disease, leaf and stem rusts. Dollar spot. cold tolerance: Winterhardiness excellent. HEAT TOLERANCE: Good. Cultivar. Seed.

PI 527313. *Zea mays* L. POACEAE Corn

Donated by: Sammons, D.J., Department of Agronomy, University of Maryland, H.J. Patterson Hall, College Park, Maryland, United States. Received March 1987.

origin: Kenya. local name: Cheborosinik. other id: BE-1149. locality: Seeds contributed by Tabutany Kipkoech, Kirobon Farm, Nakuru District near Njoro town. remarks: Crop open-pollinated, very diverse type grown on small farms in Kenyan highlands. Kernels variable in color and texture. Ears variable, 8 to 16 rowed, some large. Population contains seven sub-groups based on kernel color, flavor, quality and adaptation to environmental stresses. Kenyan 1986 crop increased by CIMMYT. Primitive Cultivar. Seed.

PI 527314 to 527320. *Solanum tuberosum* L. SOLANACEAE Potato

Donated by: International Potato Center, Apartado 5969, Lima, Peru. Received July 09, 1987.

PI 527314 donor id: CIP 375335.1. origin: Peru. pedigree: N-558.14/Neo-tuberosum bulk. other id: Q26914. other id: V-2. other id: XY13.15. remarks: Used for breeding program. Possible resistance to potato leaf roll virus (PLRV). disease resistance: Immune to PVY & PVX. Probable immunity to PVA. Breeding Material. Tuber.

PI 527315 donor id: CIP 676008. origin: India. origin institute id: 1039. pedigree: US136.6//((3345d(1))/2288a(2)). other id: Q26916. remarks: Red mutant of a white cultivar. disease resistance: Late blight, immune to potato virus Y. Breeding Material. Tuber.

PI 527314 to 527320-continued

- PI 527316 donor id: CIP 720088. origin: Argentina. pedigree: MPI61-375-23/B-25.65. other id: Q26918. other id: B-71-240-2. remarks: Tends to loose PLRV resistance when infected by PVX or PVY. Used widely in breeding programs and named in 8 countries. disease resistance: Moderate to late blight. Potato leaf roll virus (PLRV). Breeding Material. Tuber.
- PI 527317 donor id: CIP 720122. origin: Mexico. origin institute id: 750815. pedigree: Atzimba/55-22.3. other id: Q26919. remarks: Not adapted to long day length. Potential cultivar. disease resistance: Late blight. High useful level of hypersensitivity to PVY. Breeding Material. Tuber.
- PI 527318 donor id: CIP 800224. origin: United States. pedigree: Atzimba/A-1. other id: Q26921. other id: BR 63.76. remarks: Named cultivar in Kenya. Solanum phureja is source of bacterial wilt resistance. disease resistance: Moderate to late blight. Bacterial wilt and PLRV. Breeding Material. Tuber.
- PI 527319 donor id: CIP 800935. origin: United States. other id: Q26922. other id: MS-IC.2. remarks: Pedigree similar to CIP 800224 (PI 527318), probably different female parent from Mexico. Potential cultivar. disease resistance: Late blight, bacterial wilt & PVY. Moderate to PLRV. Breeding Material. Tuber.
- PI 527320 donor id: CIP 800942. origin: Peru. pedigree: Atzimba/A-1. other id: Q26923. other id: BR-63.15. remarks: Named cultivar in Peru. Full sib of CIP 800224 (PI 527318). disease resistance: Moderate to late blight. Bacterial wilt & PLRV. Breeding Material. Tuber.

PI 527321. *Amaranthus tricolor* L. AMARANTHACEAE

Donated by: Vegetable and Flower Research Institute, Chinese Academy of Agricultural Sciences, 30 Baishiqiao Road, Beijing, China, Peoples Repub of. Received December 6, 1988.

origin: China, Peoples Repub of. cultivar: BAI LIU YE XIAN. remarks: Used as a vegetable (greens). received as: *A. mangostanus*. Cultivar. Seed.

PI 527322 to 527324. *Brassica pekinensis* (Lour.) Rupr. BRASSICACEAE  
Chinese cabbage

Donated by: Vegetable and Flower Research Institute, Chinese Academy  
of Agricultural Sciences, 30 Baishiqiao Road, Beijing, China,  
Peoples Repub of. Received December 6, 1988.

PI 527322 origin: China, Peoples Repub of. cultivar: BI YU.  
Cultivar. Seed.

PI 527323 origin: China, Peoples Repub of. cultivar: JIN QIU.  
Cultivar. Seed.

PI 527324 origin: China, Peoples Repub of. cultivar: XIN FENG NO.  
2. Cultivar. Seed.

PI 527325. *Capsicum annuum* L. SOLANACEAE Pepper

Donated by: Vegetable and Flower Research Institute, Chinese Academy  
of Agricultural Sciences, 30 Baishiqiao Road, Beijing, China,  
Peoples Repub of. Received December 6, 1988.

origin: China, Peoples Repub of. cultivar: ZHONG JIAO  
NO. 4. Cultivar. Seed.

PI 527326. *Cucurbita moschata* (Duch.) Duch. ex Poir. CUCURBITACEAE  
Winter squash

Donated by: Vegetable and Flower Research Institute, Chinese Academy  
of Agricultural Sciences, 30 Baishiqiao Road, Beijing, China,  
Peoples Repub of. Received December 6, 1988.

origin: China, Peoples Repub of. cultivar: QI YE GUA.  
Cultivar. Seed.

PI 527327. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by: Vegetable and Flower Research Institute, Chinese Academy  
of Agricultural Sciences, 30 Baishiqiao Road, Beijing, China,  
Peoples Repub of. Received December 6, 1988.

origin: China, Peoples Repub of. cultivar: BAO QIU WUO  
JU. Cultivar. Seed.

PI 527328 to 527330. *Lycopersicon esculentum* Miller SOLANACEAE Tomato

Donated by: Vegetable and Flower Research Institute, Chinese Academy  
of Agricultural Sciences, 30 Baishiqiao Road, Beijing, China,  
Peoples Repub of. Received December 6, 1988.



PI 527328 to 527330-continued

PI 527328 origin: China, Peoples Repub of. cultivar: HONG MA NAO  
NO. 115. Cultivar. Seed.

PI 527329 origin: China, Peoples Repub of. cultivar: HONG ZA NO.  
21. Cultivar. Seed.

PI 527330 origin: China, Peoples Repub of. cultivar: HONG ZA NO.  
24. Cultivar. Seed.

PI 527331. *Luffa aegyptiaca* Miller CUCURBITACEAE Vegetable sponge

Donated by: Vegetable and Flower Research Institute, Chinese Academy  
of Agricultural Sciences, 30 Baishiqiao Road, Beijing, China,  
Peoples Repub of. Received December 6, 1988.

origin: China, Peoples Repub of. cultivar: ROU SI GUA.  
received as: *L. cylindrica*. Cultivar. Seed.

PI 527332. *Spinacia oleracea* L. CHENOPODIACEAE Spinach

Donated by: Vegetable and Flower Research Institute, Chinese Academy  
of Agricultural Sciences, 30 Baishiqiao Road, Beijing, China,  
Peoples Repub of. Received December 6, 1988.

origin: China, Peoples Repub of. cultivar: DA JIAN YE BO  
CAI. Cultivar. Seed.

PI 527333. *Elymus glaucus* Buckley POACEAE Blue wildrye

Donated by: Darris, D., Corvallis Plant Materials Center, USDA-SCS,  
3420 NE Granger Avenue, Corvallis, Oregon, United States. remarks:  
Received through National Plant Materials Center, USDA-SCS,  
Beltsville, Maryland. Received June 1988.

donor id: 9019633. origin: United States. collected:  
August 1979. collector: P. Leipzig. other id: CO-199.  
locality: Native stand, 3.2km N of Arlington, (Sec.21,  
T32N, R5E), Snohomish County. remarks: Plants tall.  
Vigorous. Awns short. Good growth form, long lived.  
Apparent freedom from disease and insect pests. Potential  
use as noncompetitive cover crop for erosion control on  
newly planted reforestation projects, livestock forage,  
and wildlife cover in western Oregon, Washington, and  
northern California. Wild. Seed.

PI 527334. *Phaseolus acutifolius* A. Gray FABACEAE Tepary bean

Donated by: Nabhan, G., Desert Botanic Gardens, 1201 W. Galvin Parkway, Phoenix, Arizona, United States. Received January 14, 1988.

donor id: GN730. origin: Mexico. collected: September 30, 1977. locality: Shade of roadside and fieldside shrubs, 5km SE of San Ignacio, near Tacicuii, Municipal de Magdalena. remarks: Vine, .7m tall. Annual. Wild. Seed.

PI 527335. *Phaseolus acutifolius* var. *latifolius* G. Freeman FABACEAE Tepary bean

Donated by: Nabhan, G., Desert Botanic Gardens, 1201 W. Galvin Parkway, Phoenix, Arizona, United States. Received January 14, 1988.

donor id: GN601. origin: United States. local name: Tcatcai Mori. collected: November 26, 1977. locality: Hotevilla, Hopi Indian Reservation, Navajo Co. remarks: Seeds, small, white. Rare among Hopi. Cultivated. Seed.

PI 527336. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Sorensen, E.L., USDA-ARS, Dept. of Agronomy, Kansas State University, Throckmorton Hall, Manhattan, Kansas, United States; and Stuteville, D.L., Dept. of Plant Pathology, Kansas State University, Throckmorton Hall, Manhattan, Kansas, United States; and Horber, E.K., Dept. of Entomology, Kansas State University, Waters Hall, Manhattan, Kansas, United States. remarks: Released by the USDA-ARS and the Kansas Agricultural Experiment Station in 1988. Received December 09, 1988.

donor id: KS208. origin: United States. pedigree: 62 parental plants from alfalfa weevil tolerant strains tracing to Anchor, Arc, Cherokee, Elga, Liberty, and strain cross MSA-W4/MSB-W4. other id: GP-215. group: CSR-ALFALFA. remarks: Estimated germplasm constitution 55% Flemish, 29% Chilean, 8% *M. varia*, 5% Turkistan, 1% *M. falcata*, 1% Ladak, and 1% Peruvian. Fall growth similar to Saranac at St. Paul, Minnesota. Released because of multiple disease and insect resistance. disease resistance: Anthracnose, bacterial and Fusarium wilts, downy mildew. Phytophthora root rot. insect resistance: Blue alfalfa aphid, pea aphid, and spotted alfalfa aphid. Perennial. Breeding Material. Seed.

PI 527337. *Nicotiana tabacum* L. SOLANACEAE Tobacco

**Donated by:** Legg, P.D., Dept. of Agronomy, Univ. of Kentucky, West Kentucky Res. and Education Center, P.O. Box 469, Princeton, Kentucky, United States. **remarks:** Developed and released by the Kentucky Agric. Exp. Station in 1988. Received December 09, 1988.

**origin:** United States. **cultivar:** KY 180. **pedigree:** Ky 165/Burley 49/2/\*3 Ky 160/3/Os 15/4/Os 17 (F6). **other id:** CV-98. **group:** CSR-TOBACCO. **remarks:** Plants dark, air-cured type (35). Released for overall superiority in disease resistance, cured-leaf quality, and yield as compared to other cultivars. **disease resistance:** Highly to TMV, wildfire (*Pseudomonas Tabaci*). Black root rot (*Thielaviopsis basicola*). Medium to fusarium wilt (*Fusarium oxysporum* f. sp. *nicotianae*). Cultivar. Seed.

PI 527338. *Nicotiana tabacum* L. SOLANACEAE Tobacco

**Donated by:** Legg, P.D., Dept. of Agronomy, Univ. of Kentucky, West Kentucky Res. and Education Center, P.O. Box 469, Princeton, Kentucky, United States; and Tedford, E., Dept. of Agronomy, Univ. of Kentucky, Lexington, Kentucky, United States. **remarks:** Developed and released by the Kentucky Agric. Exp. Station in 1988. Received December 09, 1988.

**origin:** United States. **cultivar:** KY 190. **pedigree:** KY 171\*6/TXF 811 (F6). **other id:** CV-99. **group:** CSR-TOBACCO. **remarks:** Plants dark, fire-cured type (22 and 23). Released for its good yield of high quality leaf and disease resistance. Alkaloid content of cured leaf 5.75%. Cured leaf rated good to excellent with acceptable leaf chemistry. **disease resistance:** High to TMV, wildfire (*Pseudomonas Tabaci*). Black root rot (*Thielaviopsis basicola*). Medium to races R0 and R1 of black shank. Cultivar. Seed.

PI 527339 to 527340. X *Triticosecale* sp. POACEAE Triticale

**Donated by:** Johnson, J.W., Department of Agronomy, University of Georgia, Georgia Station, Griffin, Georgia, United States. Received November 21, 1988.

PI 527339 to 527340-continued

PI 527339 donor id: GA 21. origin: United States. pedigree: M2A-Beagle/Arkansas 2306. other id: GP-11. group: CSR-TRITICALE. remarks: Heterogeneous for height, head type and size, and maturity. Winter hardiness exceeds that of Beagle 82, a commercial cultivar. Agronomically diverse from PI 527340 (GA 22). Bacterial leaf streak resistance conferred by the single dominant gene Xct1. Susceptible to predominate races of leaf rust (*Puccinia recondita*). disease resistance: Bacterial leaf streak(*Xanthomonas compestris* pv. *tranlucens*). Breeding Material. Seed.

PI 527340 donor id: GA 22. origin: United States. pedigree: Siskyou/Beagle 82. other id: GP-12. group: CSR-TRITICALE. remarks: Heterogeneous for height, head type and size, and maturity. Winter hardiness exceeds that of Beagle 82, a commercial cultivar. Agronomically diverse from PI 527339 (GA 21). Bacterial leaf streak resistance conferred by the single dominant gene Xctl. Susceptible to predominate races of leaf rust (*Puccinia recondita*). disease resistance: Bacterial leaf streak(*Xanthomas compestris* pv. *tranlucens*). Breeding Material. Seed.

PI 527341 to 527357. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Holly, L., ICARDA, P.O. Box 5466, Aleppo, Syria.  
remarks: Received through S.E. Smith, Dept. of Plant Science, University of Arizona, Tucson, Arizona. Received October 07, 1988.

PI 527341 donor id: IFMP 551. origin: Egypt. origin institute id: I-168-78. collected: 1978. remarks: Day neutral type. Perennial. Cultivated. Seed.

PI 527342 donor id: IFMP 552. origin: Egypt. origin institute id: I-169-78. collected: 1978. remarks: Day neutral type. Perennial. Cultivated. Seed.

PI 527343 donor id: IFMP 553. origin: Egypt. origin institute id: I-170-78. collected: 1978. remarks: Day neutral type. Perennial. Cultivated. Seed.

PI 527344 donor id: IFMP 554. origin: Egypt. origin institute id: I-171-78. collected: 1978. remarks: Day neutral type. Perennial. Cultivated. Seed.

PI 527345 donor id: IFMP 555. origin: Egypt. origin institute id: I-172-78. collected: 1978. remarks: Day neutral type. Perennial. Cultivated. Seed.

PI 527341 to 527357-continued

- PI 527346 donor id: IFMP 556. origin: Egypt. origin institute id: I-173-78. collected: 1978. remarks: Day neutral type. Perennial. Cultivated. Seed.
- PI 527347 donor id: IFMP 557. origin: Egypt. origin institute id: I-174-78. collected: 1978. remarks: Day neutral type. Perennial. Cultivated. Seed.
- PI 527348 donor id: IFMP 558. origin: Egypt. origin institute id: I-178-78. collected: 1978. remarks: Day neutral type. Perennial. Cultivated. Seed.
- PI 527349 donor id: IFMP 643. origin: Sudan. remarks: Day neutral type. Perennial. Cultivated. Seed.
- PI 527350 donor id: IFMP 644. origin: Sudan. remarks: Day neutral type. Perennial. Cultivated. Seed.
- PI 527351 donor id: IFMP 645. origin: Sudan. remarks: Day neutral type. Perennial. Cultivated. Seed.
- PI 527352 donor id: IFMP 646. origin: Sudan. remarks: Day neutral type. Perennial. Cultivated. Seed.
- PI 527353 donor id: IFMP 647. origin: Sudan. remarks: Day neutral type. Perennial. Cultivated. Seed.
- PI 527354 donor id: IFMP 648. origin: Sudan. remarks: Day neutral type. Perennial. Cultivated. Seed.
- PI 527355 donor id: IFMP 797. origin: Saudi Arabia. collected: 1980. collector: W. Muglabay. remarks: Day neutral type. Fall non-dormant. Good winter growth. Perennial. Cultivated. Seed.
- PI 527356 donor id: IFMP 798. origin: Saudi Arabia. collected: 1980. collector: W. Muglabay. collector id: 1820. remarks: Day neutral type. Fall non-dormant. Good winter growth. Perennial. Cultivated. Seed.
- PI 527357 donor id: IFMP 799. origin: Saudi Arabia. collected: 1980. collector: W. Muglabay. collector id: 1821. remarks: Day neutral type. Fall non-dormant. Good winter growth. Perennial. Cultivated. Seed.

PI 527358. *Luziola* sp. POACEAE

Donated by: Norwick, E.M., Rice Research Station, Louisiana State Univ. Agr. Center, P.O. Box 1429, Crowley, Louisiana, United States. remarks: Received through a 1987 USDA-ARS sponsored exploration for *Oryza* germplasm in South America. Received March 3, 1988.

PI 527358-continued

**donor id:** 1007. **origin:** Brazil. **collected:** March 25, 1987. **collector:** E.M. Nowick, D.E. Groth, M. Cordeira. **collector id:** 1007. **other id:** DG870635. **locality:** Floating, lake edge, Pracwba, Amapa. **latitude:** 1 deg. 30 min. N. **longitude:** 50 deg. 50 min. W. **elevation:** 6.1m. **remarks:** Large stand. Plants up to 2m long, some appear to have female inflorescences only. Flag leaf 24cm long, 1cm wide. Blade pubescent. Leaf sheath with purple lines. Ligule 3cm long, white, acute to acuminate. Collar pale green. Culms 127cm long, 19 per plant, .5cm diameter. Internode green. Stigma purple. Awned. Lemma and palea black. Seed coat brown. Wild. Seed.

PI 527359 to 527360. *Oryza alta* Swallen POACEAE

**Donated by:** Norwick, E.M., Rice Research Station, Louisiana State Univ. Agr. Center, P.O. Box 1429, Crowley, Louisiana, United States. **remarks:** Received through a 1987 USDA-ARS sponsored exploration for *Oryza* germplasm in South America. Received March 3, 1988.

PI 527359 **donor id:** 1013. **origin:** Brazil. **collected:** April 4, 1987. **collector:** E.M. Nowick, D.E. Groth, I.A. Rodrigues. **collector id:** 1013. **other id:** DG870641. **locality:** Floating vegetation, edge of lake Jararaca, Cocal Grande, Monte Alegre, Para. **latitude:** 2 deg. 5 min. S. **longitude:** 50 deg. 5 min. W. **remarks:** Stand uniform. Sterility considerable. Flag leaf 24cm long, 3cm wide. Blade glabrous. Leaf sheath green. Ligule .77cm long, with purple lines, cleft. Collar pale green. Culms 300cm long, 4 per plant, .6cm diameter. Internode green. Awned. Lemma and palea black. Seed coat brown. Wild. Seed.

PI 527360 **donor id:** 1021. **origin:** Brazil. **collected:** April 10, 1987. **collector:** E.M. Nowick, D.E. Groth, I.A. Rodrigues, J. Fonseca. **collector id:** 1021. **other id:** DG870649. **locality:** Floating vegetation, restricted areas in mixed stands, edge of lake Janauaca, Janauaca Villa, Municipal Calderao. **latitude:** 3 deg. 15 min. S. **longitude:** 60 deg. 15 min. W. **remarks:** Flag leaf 48cm long, 2.7cm wide. Blade pubescent. Leaf sheath green. Ligule, .7cm long with purple lines, truncate. Collar purple. Culms 220cm long., .5cm diameter. Internode green. Stigma purple. Awnless. Lemma and palea black. Seed coat red. **received as:** *O. glumaepatula*. Wild. Seed.

PI 527361 to 527379. *Oryza rufipogon* Griff. POACEAE

**Donated by:** Norwick, E.M., Rice Research Station, Louisiana State Univ. Agr. Center, P.O. Box 1429, Crowley, Louisiana, United States.  
**remarks:** Received through a 1987 USDA-ARS sponsored exploration for *Oryza* germplasm in South America. Received March 3, 1988.

PI 527361 **donor id:** 1001. **origin:** Brazil. **collected:** March 23, 1987. **collector:** E.M. Nowick, D.E. Groth, M. Cordeira. **collector id:** 1001. **other id:** DG870629. **locality:** Floating vegetation, lake Varzea, Museu Costalima, Amapa. **latitude:** 0 deg. 0 min. S. **longitude:** 51 deg. 12 min. W. **elevation:** 6.lm. **remarks:** Abundant in mixed stands with rushes. Plants 2m tall. Flag leaf 15.5cm long, 1cm wide. Blade pubescent. Leaf sheath green. Ligule 1.25cm long, white, acute to acuminate. Collar pale green. Culms 95cm long, 14.5 per plant, .35cm diameter. Internode green. Stigma purple. Awned. Lemma and palea black. Seed coat brown. Maturity variable. **received as:** *O. glumaepatula*. Wild. Seed.

PI 527362 **donor id:** 1004. **origin:** Brazil. **local name:** Arroz bravo. **collected:** March 24, 1987. **collector:** E.M. Nowick, D.E. Groth, M. Corderia. **collector id:** 1004. **other id:** DG870632. **locality:** Floating vegetation, lake edge at Pracwba, 270km N of Macapa, Amapa. **latitude:** 1 deg. 30 min. S. **longitude:** 50 deg. 50 min. W. **elevation:** 6.lm. **remarks:** Mixed floated island. Plants 2m tall, rooting at node. Flag leaf 25.5cm long, 1.05cm wide. Blade pubescent. Leaf sheath green. Ligule 2.88cm long, white, acute to acuminate. Collar pale green-green. Culms 116.25cm long, 15.5 per plant, .525cm diameter. Internode with purple lines. Stigma purple. Awned. Lemma and palea black. Seed coat brown. **received as:** *O. glumaepatula*. Wild. Seed.

PI 527363 **donor id:** 1005. **origin:** Brazil. **local name:** Arroz bravo. **collected:** March 24, 1987. **collector:** E.M. Nowick, D.E. Groth, M. Corderia. **collector id:** 1005. **other id:** DG870633. **locality:** Floating vegetation, lake edge at Pracwba, 270km N of Macapa, Amapa. **latitude:** 1 deg. 30 min. S. **longitude:** 50 deg. 50 min. W. **elevation:** 6.lm. **remarks:** Flag leaf 20cm long, 1cm wide. Blade pubescent. Leaf sheath with purple lines. Ligule 4cm long, white, acute to acuminate. Collar pale green. Culms 110cm long, 20 per plant, .5cm diameter. Internode green. Stigma purple. Awned. Lemma and palea black. Seed coat brown. **received as:** *O. glumaepatula*. Wild. Seed.

PI 527361 to 527379-continued

- PI 527364 donor id: 1006. origin: Brazil. collected: March 24, 1987. collector: E.M. Nowick, D.E. Groth, M. Corderia, M. Jones. collector id: 1006. other id: DG870634. locality: Floating vegetation, lake edge (1-2m depth) at Pracwba, Amapa. latitude: 1 deg. 30 min. S. longitude: 50 deg. 50 min. W. elevation: 6.1m. remarks: Small stands in mixed vegetation of floating islands. Plants frequent. Flag leaf 22.25cm long, 1.35cm wide. Blade pubescent. Leaf sheath green. Ligule 3.19cm long, white, cleft. Collar pale green. Culms 129cm long, 18 per plant, .5cm diameter. Internode green. Stigma purple. Awned. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.
- PI 527365 donor id: 1008. origin: Brazil. collected: March 24, 1987. collector: E.M. Nowick, D.E. Groth, M. Corderia. collector id: 1008. other id: DG870636. locality: Floating vegetation, lake edge (1-2m depth) at Pracwba, Amapa. latitude: 1 deg. 30 min. S. longitude: 50 deg. 50 min. W. elevation: 6.1m. remarks: Mixed stand with *Luzeola*. Flag leaf 24cm long, 1.2cm wide. Blade pubescent. Leaf sheath with purple lines. Ligule 3.7cm long, white, acute to acuminate. Collar pale green. Culms 128cm long, 15.4 per plant, .54cm diameter. Internode green-light gold. Stigma purple. Awned. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.
- PI 527366 donor id: 1010. origin: Brazil. collected: March 25, 1987. collector: E.M. Nowick, D.E. Groth, M. Corderia. collector id: 1010. other id: DG870638. locality: Floating vegetation, (1-2m depth) lake edge, at Pracwba Amapa. latitude: 1 deg. 30 min. S. longitude: 50 deg. 50 min. W. elevation: 6.1m. remarks: Small population. Flag leaf 21.5cm long, 1.15cm wide. Blade pubescent. Leaf sheath with purple lines. Ligule 4.5cm long, white, acute to acuminate. Collar pale green. Culms 150cm long, 10 per plant, .6cm diameter. Internode light gold. Stigma purple. Awned. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.



PI 527361 to 527379-continued

- PI 527367 donor id: 1011. origin: Brazil. collected: March 26, 1987. collector: E.M. Nowick, D.E. Groth, M. Corderia. collector id: 1011. other id: DG870639. locality: Flooded edge of stream, Curralinho, Macapa, Amapa. latitude: 0 deg. 7 min. S. longitude: 51 deg. 5 min. W. elevation: 6.1m. remarks: Seed eaten by fish. Flag leaf 25.5cm long, 1cm wide. Blade pubescent. Leaf sheath with purple lines. Ligule 2.25cm long, white, cleft. Collar pale green. Culms 100cm long, 12 per plant, .45cm diameter. Internode with purple lines. Stigma purple. Awned. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.
- PI 527368 donor id: 1014. origin: Brazil. collected: April 6, 1987. collector: E.M. Nowick, D.E. Groth, I.A. Rodrigues. collector id: 1014. other id: DG870642. locality: Floating vegetation, Terra Curral Grande, Monte Alegre. latitude: 2 deg. 15 min. S. longitude: 54 deg. 10 min. W. remarks: Mixed vegetation in savannah-like area. Flag leaf 25cm long, 1.14cm wide. Blade pubescent. Leaf sheath green. Ligule 1.96, white, cleft. Collar pale green. Culms 108cm long, 16.4 per plant, .52cm diameter. Internode green. Stigma purple. Awned. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.
- PI 527369 donor id: 1015. origin: Brazil. collected: April 6, 1987. collector: E.M. Nowick, D.E. Groth, I.A. Rodrigues. collector id: 1015. other id: DG870643. locality: Floating vegetation, edge of lake, Eurica, Marcuri, Para. latitude: 2 deg. 15 min. S. longitude: 54 deg. 10 min. W. remarks: Plants 2m tall. Rooted to bottom. Stems vertical. Flag leaf 23.6cm long, 1.24 wide. Blade pubescent. Leaf sheath green with purple lines. Ligule 2.8cm long, white, acute to acuminate to cleft. Collar pale green, . Culms 117cm long, 14.5 per plant, .52cm diameter. Internode green. Stigma purple. Awned. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.

PI 527361 to 527379-continued

- PI 527370 donor id: 1016. origin: Brazil. collected: April 6, 1987. collector: E.M. Nowick, D.E. Groth, I.A. Rodrigues. collector id: 1016. other id: DG870644. locality: Floating vegetation, edge of small stream, Tapara, Monte Alegre, Para. latitude: 2 deg. 15 min. S. longitude: 54 deg. 10 min. W. remarks: Savannah-like area. Plants 1-1 1/2m tall, abundant. Flag leaf 23.25cm long, 1.16cm wide. Blade pubescent. Leaf sheath green. Ligule 2.5cm long white, acute to acuminate to cleft. Collar pale green. Culms 116.8cm long, 14.17 per plant, .49cm diameter. Internode green. Stigma purple. Awned. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.
- PI 527371 donor id: 1018. origin: Brazil. collected: April 7, 1987. collector: E.M. Nowick, D.E. Groth, I.A. Rodrigues. collector id: 1018. other id: DG870646. locality: Floating vegetation, large stands at edge of Amazon river, Arapema, Santarem. latitude: 2 deg. 10 min. S. longitude: 54 deg. 10 min. W. remarks: Some plants with mildew-like symptoms on panicles. Flag leaf 22cm long, 1 cm wide. Blade pubescent. Leaf sheath green. Ligule 2.5cm long, white, acute to acuminate. Collar pale green. Culms 120cm long, 10 per plant, .4cm diameter. Internode green. Stigma purple. Awned. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.
- PI 527372 donor id: 1023. origin: Brazil. collected: April 11, 1987. collector: E.M. Nowick, D.E. Groth, I.A. Rodrigues, J. Fonseca. collector id: 1023. other id: DG870651. locality: Floating vegetation, edge of Rio Negro, N of ferry launch, Caucau Pireri, Amazonas. latitude: 3 deg. 10 min. S. longitude: 60 deg. 00 min. W. remarks: Plants 2m tall. Flag leaf 20.5cm long, 1cm wide. Blade pubescent. Leaf sheath green. Ligule 3cm long, white, acute to acuminate. Collar pale green. Culms 117.5cm long, 18 per plant, .6cm diameter. Internode green. Stigma purple. Awned. Lemma and palea black. Seed coat red. received as: *O. glumaepatula*. Wild. Seed.

PI 527361 to 527379-continued

- PI 527373 **donor id:** 1027. **origin:** Brazil. **collected:** April 12, 1987. **collector:** E.M. Nowick, D.E. Groth, I.A. Rodrigues, J. Fonseca. **collector id:** 1027. **other id:** DG870655. **locality:** Floating vegetation, edge of lake, side of route BR 319, km 15, Caceriro, Amazonas. **latitude:** 3 deg. 10 min. S. **longitude:** 59 deg. 45 min. W. **remarks:** Plants abundant, uniform stand. Flag leaf 24cm long, .9cm wide. Blade pubescent. Leaf sheath green. Ligule 3cm long, white, cleft. Collar green. Culms 107cm long, 10 per plant, .3cm diameter. Internode green. Stigma yellow, well exserted. Fully awned. Lemma and palea black. Seed coat brown. **received as:** *O. glumaepatula*. Wild. Seed.
- PI 527374 **donor id:** 1028. **origin:** Brazil. **collected:** April 12, 1987. **collector:** E.M. Nowick, D.E. Groth, I.A. Rodrigues, J. Fonseca. **collector id:** 1028. **other id:** DG870656. **locality:** Floating vegetation in small pond with stagnant water, edge of lake, BR319, 25km of Caceiro, Amazonas. **latitude:** 3 deg. 10 min. S. **longitude:** 59 deg. 45 min. W. **remarks:** Plants few. Flag leaf 15cm long, 1.1cm wide. Blade pubescent. Leaf sheath green. Ligule 2.5cm long, white, acute to acuminate. Collar green. Culms 81cm long, 30 per plant, .3cm diameter internode green. Stigma purple, well exserted. Fully awned. Lemma and palea furrows in straw. Seed coat red. **received as:** *O. glumaepatula*. Wild. Seed.
- PI 527375 **donor id:** 1029. **origin:** Brazil. **collected:** April 14, 1987. **collector:** E.M. Nowick, D.E. Groth, I.A. Rodrigues, J. Fonseca. **collector id:** 1029. **other id:** DG870657. **locality:** Edge of lake, Caldiras de Manaus at ferry crossing, 35km from Caucau Pireri, Amazonas, Municipal Ariau. **latitude:** 3 deg. 15 min. S. **longitude:** 60 deg. 30 min. W. **remarks:** Flag leaf 23cm long, 1.2cm wide. Blade pubescent. Leaf sheath green. Ligule 2.3cm long, white. Collar pale green. Culms 118cm long, 16 per plant, .5cm diameter. Internode green. Stigma yellow. Well exserted. Fully awned. Lemma and palea furrows in straw. Seed coat brown. **received as:** *O. glumaepatula*. Wild. Seed.

PI 527361 to 527379-continued

- PI 527376 donor id: 1030. origin: Brazil. collected: April 14, 1987. collector: E.M. Nowick, D.E. Groth, I.A. Rodrigues, J. Fonseca. collector id: 1030. other id: DG870658. locality: Edge of lake, Caldiras de Manaus at ferry crossing, 35km from Caucau Pireri, Amazonas, Municipal Ariau. latitude: 3 deg. 15 min. S. longitude: 60 deg. 30 min. W. remarks: Flag leaf 15-29cm long, 1.5cm wide. Blade pubescent. Leaf sheath green. Ligule 3-4cm long, white, acute to acuminate. Collar green. Auricle pale green. Culms 118-135cm long, 6-8 per plant, .6cm diameter. Internode green. Stigma purple, well exserted, fully awned. Awns red. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.
- PI 527377 donor id: 1031. origin: Brazil. collected: April 14, 1987. collector: E.M. Nowick, D.E. Groth, I.A. Rodrigues, J. Fonseca. collector id: 1031. other id: DG870659. locality: Edge of lake, 3-5km W of Manacapura, Amazonas, Municipal Manacapuru. latitude: 3 deg. 15 min. S. longitude: 60 deg. 40 min. W. remarks: Flag leaf 30cm long, 1 cm wide. Blade pubescent. Leaf sheath green. Ligule 2.2cm long, white, cleft. Collar pale green. Culms 110cm long, 10 per plant, 5cm diameter. Internode green. Stigma purple. received as: *O. glumaepatula*. Wild. Seed.
- PI 527378 donor id: 1032. origin: Brazil. collected: April 14, 1987. collector: E.M. Nowick, D.E. Groth, I.A. Rodrigues, J. Fonseca. collector id: 1032. other id: DG870660. locality: Floating vegetation, edge of lake Macaquiho, 3-5km W of Manacapura, Rio Manacapuru, Amazonas, Municipal Manacapuru. latitude: 3 deg. 15 min. S. longitude: 60 deg. 40 min. W. remarks: Flag leaf 40cm long, 3cm wide. Blade pubescent. Leaf sheath green. Ligule .7cm long, white, truncate. Collar purple. Culms 200cm long, 8 per plant, .6cm diameter. Internode green. Stigma white. Awnless. Lemma and palea black. Seed coat brown. received as: *O. glumaepatula*. Wild. Seed.

PI 527361 to 527379-continued

PI 527379 donor id: 1033. origin: Brazil. collected: April 14, 1987. collector: E.M. Nowick, D.E. Groth, I.A. Rodrigues, J. Fonseca. collector id: 1033. other id: DG870661. locality: Floating vegetation, edge of lake Macaquiho, 1 km W of Manacapura, Rio Manacapuru, Amazonas. latitude: 3 deg. 15 min. S. longitude: 60 deg. 40 min. W. remarks: Stand sparse, solid. Flag leaf 20cm long, 1.6cm wide. Blade with some pubescence. Leaf sheath green w/some purple lines. Ligule 2.5cm long, white, cleft. Collar pale green. Culms 130cm long, 12.33 per plant, .43cm wide. Internode green. Stigma purple. Awned. Lemma and palea reddish to purple. Seed coat brownish red. received as: *O. glumaepatula*. Wild. Seed.

PI 527380 to 527381. *Hordeum vulgare* L. POACEAE Barley

Donated by: Gallagher, L., 335 Encina Avenue, Davis, California, United States. Received July 29, 1988.

PI 527380 origin: United States. pedigree: Club Mariout/6\* California Mariout. other id: BGS 0252. remarks: Six-rowed type. Homozygous recessive for ea 7 allele for early heading. Breeding Material. Seed.

PI 527381 donor id: Super Precoz(2H). origin: UNKNOWN. other id: EBL No. 15582. remarks: Received from USSR via CIMMYT. Two row type. Recessive allele ea sp for extreme earliness located on chromosome three. Spring Annual. Breeding Material. Seed.

PI 527382. *Cleome gynandra* L. CAPPARACEAE

Donated by: Attere, F., IBPGR, Department of Agriculture, Rome, Italy; and Ndumba, E.K., Department of Agriculture, Solwezi, Zambia; and Mubiana, W., Department of Agriculture, Mansa, Zambia. remarks: Received through IBPGR, Rome, Italy. Received August 1983.

donor id: ZFA 3538. origin: Zambia. local name: Luwansa (Bemba). collected: July 4, 1982. locality: Farmstore, Sampa farm, 8km N of Luwingu, Northern Province. latitude: 10 deg. 00 min. S. longitude: 30 deg. 00 min. E. elevation: 1500m. remarks: Originally a mixed collection with *Amaranthus* sp. (PI 494775). Annual. Primitive Cultivar. Seed.

PI 527383. *Abelmoschus esculentus* (L.) Moench MALVACEAE Okra

**Donated by:** Hilu, K.W.; Randall, J., Department of Biology, Virginia Polytechnic Institute, Blacksburg, Virginia, United States.  
**remarks:** Received through IBPGR, Rome, Italy. Received March 21, 1985.

**donor id:** 9. **origin:** Algeria. **local name:** Ghenaouia.  
**collected:** October 10, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 9. **locality:** Farm house, palm tree understory, sandy soil, Temacine, 8km S of Touggourt. **remarks:** Plants 50-60cm tall, grown for many generations. Sown March, harvested mid-June to September. Irrigated. Used for food. Farmer: Boumeava Heb-Mohammed. Cultivated. Seed.

PI 527384 to 527385. *Arachis* sp. FABACEAE

**Donated by:** Hilu, K.W.; Randall, J., Department of Biology, Virginia Polytechnic Institute, Blacksburg, Virginia, United States.  
**remarks:** Received through IBPGR, Rome, Italy. Received March 21, 1985.

PI 527384 **donor id:** 44. **origin:** Algeria. **local name:** Kaokao.  
**collected:** October 14, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 44. **locality:** Farmhouse, palm tree understory, sandy soil, El Golea. **elevation:** 397m. **remarks:** Grown for generations. Sown May, harvested October. Irrigated. Used for food. Farmer: Ben Khadda Abdul Rhaman, Old Khasir. **received as:** *A. geocarpa*. Cultivated. Seed.

PI 527385 **donor id:** 88. **origin:** Algeria. **local name:** Cocow.  
**collected:** October 18, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 88. **locality:** Farmhouse, palm tree understory, sandy soil, 60km N of Aadrur. **remarks:** Sown April, harvested October-November. Irrigated. Used for food. **received as:** *A. geocarpa*. Cultivated. Seed.

PI 527386. *Cucumis* sp. CUCURBITACEAE

**Donated by:** Hilu, K.W.; Randall, J., Department of Biology, Virginia Polytechnic Institute, Blacksburg, Virginia, United States.  
**remarks:** Received through IBPGR, Rome, Italy. Received March 21, 1985.

PI 527386-continued

**donor id:** 64. **origin:** Algeria. **local name:** Bateikh.  
**collected:** October 16, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 64. **locality:** Farmhouse, palm tree understory, sandy soil, Ain-Salah towards Fouggarrah El-Zowa. **elevation:** 290m. **remarks:** Sown April, harvested July-August. Irrigated. Used for food. Farmer: Bakicliir Abdel Kader, Fouggarrah El-Zowa. Cultivated. Seed.

PI 527387 to 527426. *Pennisetum glaucum* (L.) R. Br. POACEAE

**Donated by:** Hilu, K.W.; Randall, J., Department of Biology, Virginia Polytechnic Institute, Blacksburg, Virginia, United States.  
**remarks:** Received through IBPGR, Rome, Italy. Received March 21, 1985.

PI 527387 **donor id:** 7. **origin:** Algeria. **local name:** Thurrah.  
**collected:** October 10, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 7. **locality:** Farmhouse, palm tree understory, sandy soil, Temacine, 9km S of Touggourt. **remarks:** Plants 1-2m, grown for generations. Inflorescence 20-25cm long. Mixture of typhoides, globosum, and nigritarum races. Sown May, harvested August. Irrigated. Used in soup made by grinding and mixing with tomatoes and meat. Also animal feed. Farmer: Boumeava Heb-Mohammed. **received as:** *P. americanum*. Cultivated. Seed.

PI 527388 **donor id:** 11. **origin:** Algeria. **collected:** October 11, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 11. **locality:** Farmhouse, palm tree understory and open, sandy soil, Hasi Uben Abdullah, 22km N of Ouargla. Originally from Timimoun market. **remarks:** Plants 1.5-2m tall. Inflorescences 10-40cm long. Irrigated. Used for animal feed. Farmer: Doukkar Khoieled Hasi Uben Abdullah. **received as:** *P. americanum*. Cultivated. Seed.

PI 527389 **donor id:** 12A. **origin:** Algeria. **local name:** Infosah.  
**collected:** October 11, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 12A. **locality:** Garden, under palms and in open irrigation ditches, sandy soil, 47km SW of Ouargla, N'Gola. **remarks:** Plants 50cm -1.5m tall. Inflorescences 10-30cm long. Extreme variance in inflorescence shape and color. Color ranges from green to black. Sown February, harvested October. Irrigated. Used for animal feed. Farmer: Gegna Mailood. **received as:** *P. americanum*. Cultivated. Seed.

PI 527387 to 527426-continued

- PI 527390 donor id: 12B. origin: Algeria. collected: October 11, 1984. collector: K.W. Hilu, J. Randall. collector id: 12B. locality: Garden, under palms and in open irrigation ditches, sandy soil, 47km SW of Ouargla, N'Gola. remarks: Plants 50cm -1.5m tall. Inflorescences 10-30cm long. Extreme variance in inflorescence shape and color. Color ranges from green to black. Sown February, harvested October. Irrigated. Used for animal feed. Farmer: Gegna Maillood. received as: *P. americanum*. Cultivated. Seed.
- PI 527391 donor id: 12C. origin: Algeria. collected: October 11, 1984. collector: K.W. Hilu, J. Randall. collector id: 12C. locality: Garden, under palms and in open irrigation ditches, sandy soil, 47km SW of Ouargla, N'Gola. remarks: Plants 50cm -1.5m tall. Inflorescences 10-30cm long. Extreme variance in inflorescence shape and color. Color ranges from green to black. Sown February, harvested October. Irrigated. Used for animal feed. Farmer: Gegna Maillood. received as: *P. americanum*. Cultivated. Seed.
- PI 527392 donor id: 18. origin: Algeria. local name: Beshna. collected: October 13, 1984. collector: K.W. Hilu, J. Randall. collector id: 18. locality: Farmhouse, fertile sandy soil, open area, NW of Ghardaia towards Al Ehdira. remarks: Sown April, harvested May-onward. Irrigated. Used for windbreak and animal feed. Farmer: Boushin Mohammed, Al Ehdira. received as: *P. americanum*. Cultivated. Seed.
- PI 527393 donor id: 24. origin: Algeria. local name: Beshna. collected: October 13, 1984. collector: K.W. Hilu, J. Randall. collector id: 24. locality: Farmhouse, sandy soil, open area, NW of Ghardaia towards Al Ehdira. remarks: Grown for generations. Sown April, harvested May-October. Irrigated. Used for windbreak and animal feed. Farmer: Saleh and Saeid Basher. received as: *P. americanum*. Cultivated. Seed.
- PI 527394 donor id: 45. origin: Algeria. local name: Beshna. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 45. locality: Garden, under palms, semi-open area, sandy soil, El Golea towards Old Khasir. elevation: 397m. remarks: Sown May, harvested July-September. Irrigated. Used for animal fodder. Farmer: Ben Khadda Abdul Rhasir. received as: *P. americanum*. Cultivated. Seed.



PI 527387 to 527426-continued

- PI 527395 donor id: 49. origin: Algeria. local name: Beshna. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 49. locality: Farmhouse, semi-open area, sandy soil, El Golea towards Bel Bashier. elevation: 397m. remarks: Grown for generations. Sown May, harvested July-November. Irrigated. Used for animal feed and border around vegetables. Farmer: Ibrahim Mohammed. received as: *P. americanum*. Cultivated. Seed.
- PI 527396 donor id: 54. origin: Algeria. local name: Beshna. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 54. locality: Garden, under palms, sandy soil, El Golea towards Wagda. elevation: 397m. remarks: Grown for generations. Sown May, harvested July-August for seeds, July-November for feed and seeds. Irrigated. Used for feed and border around vegetables. Farmer: Zaidi Old Kasar. received as: *P. americanum*. Cultivated. Seed.
- PI 527397 donor id: 58. origin: Algeria. local name: Beshna. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 58. locality: Garden, Ain-Salah towards Berkado II. elevation: 290m. remarks: Plants abundant, grown for generations. Sown April, harvested October-November. Irrigated. Used for human consumption, vegetative parts for animal feed. Farmer: Mesri Ahamed, Berkado II. received as: *P. americanum*. Cultivated. Seed.
- PI 527398 donor id: 59. origin: Algeria. local name: Beshna. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 59. locality: Garden, under palms, sandy soil, Ain-Salah towards Berkado II. elevation: 290m. remarks: Plants abundant, grown for generations. Irrigated. Sown May, harvested October-November. Used for human consumption and animal feed. Farmer: Mesri Ahmed, Berkado II. received as: *P. americanum*. Cultivated. Seed.
- PI 527399 donor id: 60. origin: Algeria. local name: Beshna, Dukkan. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 60. locality: Garden, open area in irrigation ditches, sandy soil, Fouggarah El-Zowa, 45km SE of Ain-Salah. elevation: 290m. remarks: Plants abundant, grown for generations, 0.5 to 1.8m tall. Inflorescences variable in length (10-35cm) and color (green to blue). Sown June-July, harvested November. Ground and made into soup. Also animal feed. Farmer: Bakadir Abdel Kader, Fouggarah El-Zowa. received as: *P. americanum*. Cultivated. Seed.

PI 527387 to 527426-continued

- PI 527400 donor id: 68. origin: Algeria. local name: Beshna. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 68. locality: Garden, under palms, semi-open area, irrigated, sandy soil, Ain-Salah towards Fouggarrah El-Zowa. elevation: 290m. remarks: Grown for generations. Sown May, harvested October-November. Used for human consumption and animal feed. Farmer: Bel Medni Mohammed, Fouggarrah El-Zowa. received as: *P. americanum*. Cultivated. Seed.
- PI 527401 donor id: 73. origin: Algeria. local name: Beshna. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 73. locality: Garden, sandy soil, Ain-Salah. elevation: 290m. remarks: Plants abundant, grown for generations. Sown May, harvested October-November. Irrigated. Used for human consumption and animal feed. Farmer: Jeoalil Ahamed, Sehla Tehtania. received as: *P. americanum*. Cultivated. Seed.
- PI 527402 donor id: 75. origin: Algeria. local name: Beshna. collected: October 17, 1984. collector: K.W. Hilu, J. Randall. collector id: 75. locality: Garden, open irrigated plots, sandy soil, 5km E of Reggana towards Taourirt. remarks: Plants uniform, irrigated, grown for generations. Sown May, harvested October. Used for human consumption and animal feed. Farmer: Ammama Bouwaumma Taourirt. received as: *P. americanum*. Cultivated. Seed.
- PI 527403 donor id: 79. origin: Algeria. local name: Beshna. collected: October 17, 1984. collector: K.W. Hilu, J. Randall. collector id: 79. locality: Garden, semi-open to open area, sandy soil, Reggane towards Tarabet. remarks: Plants abundant. Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Azzaoui Ahmed-Tarabet. received as: *P. americanum*. Cultivated. Seed.
- PI 527404 donor id: 80. origin: Algeria. local name: Beshna. collected: October 18, 1984. collector: K.W. Hilu, J. Randall. collector id: 80. locality: Garden, semi-open area, under palms, sandy soil, 11km SE of Adrur towards Tamanteit. remarks: Plants 80cm tall. Sown August, harvested October/sown January, harvested October. Irrigated. Used for animal feed. received as: *P. americanum*. Cultivated. Seed.

PI 527387 to 527426-continued

- PI 527405 donor id: 81. origin: Algeria. local name: Beshna. collected: October 18, 1984. collector: K.W. Hilu, J. Randall. collector id: 81. locality: Garden, open area, sandy soil, 11km SE of Adrar towards Tamanteit. remarks: Plants .5m - 1m tall. Sown August, harvested October/sown January, harvested October. Irrigated. Used for animal feed. Farmer: Emrawi Mohammed. received as: P. americanum. Cultivated. Seed.
- PI 527406 donor id: 84. origin: Algeria. local name: Beshna. collected: October 18, 1984. collector: K.W. Hilu, J. Randall. collector id: 84. locality: Garden, under palms, semi-open to dry open areas, sandy soil, 60km N of Adrar towards Tsabeit. remarks: Sown May, harvest until October. Irrigated. Used for animal feed. received as: P. americanum. Cultivated. Seed.
- PI 527407 donor id: 89. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 89. locality: Garden, semi-open area under palms, sandy soil, 5km W of Timimoun towards Beni Mehlal. remarks: Sown August, harvested November. Irrigated. Used as couscous and forage. Farmer: Ahmed Bu Wehda, Beni-Mehlal. received as: P. americanum. Cultivated. Seed.
- PI 527408 donor id: 92. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 92. locality: Garden, under palms, sandy soil, 5km W of Timimoun towards Beni Mehlal. remarks: Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Ahmed Al Arabie, Beni Mehlal. received as: P. americanum. Cultivated. Seed.
- PI 527409 donor id: 95. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 95. locality: Farm house, under palms, semi-open area, sandy soil, 5km W of Timimoun towards Beni Mehlal. remarks: Plants abundant. Sown August, harvested October-November. Irrigated. Used for animal fodder. Farmer: Homaïd Abdul-Kadir, Beni Mehlal. received as: P. americanum. Cultivated. Seed.
- PI 527410 donor id: 96. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 96. locality: Garden, under palms, sandy soil, 5km W of Timimoun towards Beni Mehlal. remarks: Plants abundant. Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Houmeed Mohammed Ahamed, Beni Mehlal. received as: P. americanum. Cultivated. Seed.

PI 527387 to 527426-continued

- PI 527411 donor id: 97. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 97. locality: Farm house, under palms, sandy soil, 5km W of Timimoun towards Beni Mehlal. remarks: Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Houmed Mohammed, Beni Mehlal. received as: *P. americanum*. Cultivated. Seed.
- PI 527412 donor id: 98. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 98. locality: Farm house, under palms, sandy soil, 5km W of Timimoun to towards Beni Mehlal. remarks: Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Houmed Mohammed, Beni Mehlal. received as: *P. americanum*. Cultivated. Seed.
- PI 527413 donor id: 99. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 99. locality: Garden, open area, sandy soil, 13km W of Timimoun towards Toursiet. remarks: Plants abundant. Sown April, harvested August-November. Irrigated. Used for animal feed. Farmer: Behsin Abdullah, Toursiet. received as: *P. americanum*. Cultivated. Seed.
- PI 527414 donor id: 102. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 102. locality: Garden, semi-open area under palms, sandy soil, 15km W of Timimoun towards Al Wajjda. remarks: Plants abundant. Sown May, harvested October-November. Used for animal feed. Farmer: Behsin Abdullah, Toursiet. received as: *P. americanum*. Cultivated. Seed.
- PI 527415 donor id: 105. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 105. locality: Garden, semi-open area, sandy soil, 4km N of Timimoun towards Macine. remarks: Plants abundant. Sown May, harvested October-November. Irrigated. Used for animal feed and human consumption. Farmer: Mulla Sallah, Macine. received as: *P. americanum*. Cultivated. Seed.
- PI 527416 donor id: 109. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 109. locality: Garden, semi-open area under palms, sandy soil, 4km N of Timimoun towards Macine. remarks: Plants abundant. Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Mull Salah, Macine. received as: *P. americanum*. Cultivated. Seed.

PI 527387 to 527426-continued

- PI 527417 donor id: 112. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 112. locality: Garden, under palms, sandy soil, 4km N of Timimoun towards Macine. remarks: Plants abundant. Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Moule Mohammed Abdullah. received as: P. americanum. Cultivated. Seed.
- PI 527418 donor id: 115. origin: Algeria. local name: Beshna. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 115. locality: Garden, semi-open area under-palms, sandy soil, 15km W of Timimoun towards Al Wajjda. remarks: Plants abundant. Sown May, harvested October-November. Used for animal feed. Farmer: Ashoor Mousa, Al Wajjda. received as: P. americanum. Cultivated. Seed.
- PI 527419 donor id: 122. origin: Algeria. local name: Beshna. collected: October 21, 1984. collector: K.W. Hilu, J. Randall. collector id: 122. locality: Field, open area, sandy soil, 24km N of Kerzaz towards Beni-Yekhlef. remarks: Plants abundant. Irrigated. Used for animal feed. Farmer: Sekhsokh Mohammed, Beni Yekhlef. received as: P. americanum. Cultivated. Seed.
- PI 527420 donor id: 123. origin: Algeria. local name: Beshna. collected: October 21, 1984. collector: K.W. Hilu, J. Randall. collector id: 123. locality: Garden, semi-open area between palm trees, sandy soil, Beni-Abbes. remarks: Plants abundant. Sown February, harvested October-November. Used for animal feed. Farmer: Ben Sleman Edres, Beni-Abbes. received as: P. americanum. Cultivated. Seed.
- PI 527421 donor id: 125. origin: Algeria. local name: Beshna. collected: October 21, 1984. collector: K.W. Hilu, J. Randall. collector id: 125. locality: Farmhouse, sandy soil, Beni-Abbes. remarks: Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Mukhtar Bohda, Beni-Abbes. received as: P. americanum. Cultivated. Seed.
- PI 527422 donor id: 133. origin: Algeria. local name: Dukkan. collected: October 22, 1984. collector: K.W. Hilu, J. Randall. collector id: 133. locality: Farmhouse, under palms, sandy soil, Taghit. remarks: Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Sudan Belkhier, Taghit. received as: P. americanum. Cultivated. Seed.

PI 527387 to 527426-continued

PI 527423 donor id: 134. origin: Algeria. local name: Dukkan. collected: October 22, 1984. collector: K.W. Hilu, J. Randall. collector id: 134. locality: Garden, under palms, sandy soil, Taghit. remarks: Sown May, harvested October-November. Irrigated. Used for animal feed. Farmer: Abood Eiza, Taghit. received as: *P. americanum*. Cultivated. Seed.

PI 527424 donor id: 145. origin: Algeria. local name: Dukkan. collected: October 23, 1984. collector: K.W. Hilu, J. Randall. collector id: 145. locality: Farmhouse, semi-open area under palms, sandy soil, 5km E of Bechar, towards Wagda. remarks: Plants abundant. Sown June, harvested August. Irrigated. Used for animal feed. Farmer: Faresi Abdul Malik. received as: *P. americanum*. Cultivated. Seed.

PI 527425 donor id: 155. origin: Algeria. local name: Beshna. collected: October 23, 1984. collector: K.W. Hilu, J. Randall. collector id: 155. locality: Garden, under palms, sandy soil, Bechar. remarks: Plants abundant. Sown March, harvested October. Irrigated. Used for feed. Farmer: Eisanni Eleid, Bechar. received as: *P. americanum*. Cultivated. Seed.

PI 527426 donor id: 159. origin: Algeria. local name: Dukkan. collected: October 23, 1984. collector: K.W. Hilu, J. Randall. collector id: 159. locality: Farmhouse, semi-open area, sandy soil, Bechar. remarks: Plants abundant. Sown April, harvested October. Used for animal feed. Farmer: Al Hamel Sfeisief, Bechar. received as: *P. americanum*. Cultivated. Seed.

PI 527427 to 527446. *Sorghum bicolor* (L.) Moench POACEAE Sorghum

Donated by: Hilu, K.W.; Randall, J., Department of Biology, Virginia Polytechnic Institute, Blacksburg, Virginia, United States. remarks: Received through IBPGR, Rome, Italy. Received March 21, 1985.

PI 527427 donor id: 4. origin: Algeria. local name: Dokhna. collected: October 10, 1984. collector: K.W. Hilu, J. Randall. collector id: 4. locality: Farmhouse, under palms, border around vegetables, sandy soil, Sidi Ameur, S of Touggourt. remarks: Plants 1.5m tall, grown for many generations. Inflorescences 25cm long, dense. Sown October, harvested May. Irrigated. Used for human consumption, animal feed, and as border around vegetables. Farmer: Tadjin Tahamed, Seidi-Ameur. Cultivated. Seed.

PI 527427 to 527446-continued

- PI 527428 donor id: 15. origin: Algeria. local name: Beshna. collected: October 11, 1984. collector: K.W. Hilu, J. Randall. collector id: 15. locality: Field, under palms, sandy soil, N'Goula. remarks: Inflorescence loose like a durra/kafir. Grown many generations. Sown February, harvested October. Irrigated. Farmer: Haji Gegna Meiloud. Cultivated. Seed.
- PI 527429 donor id: 16a. origin: Algeria. local name: Beshna. collected: October 11, 1984. collector: K.W. Hilu, J. Randall. collector id: 16a. locality: Field, under palms, in open irrigation ditches, sandy soil, N'Goula, Eibib section. remarks: Plants 1-1.5m tall. Inflorescences 15-30cm long. Grown for many generations. Sown February, harvested October. Irrigated. Used for animal feed. Farmer: Mohammed Gegna. Cultivated. Seed.
- PI 527430 donor id: 16b. origin: Algeria. local name: Beshna. collected: October 11, 1984. collector: K.W. Hilu, J. Randall. collector id: 16b. locality: Field, sandy soil, N'Goula, Eibib section. remarks: Plants 1-1.5m tall. Inflorescences 15-30cm long. Seeds white. Grown for many generations. Sown February, harvested October. Irrigated. Used for animal feed. Farmer: Mohammed Gegna. Cultivated. Seed.
- PI 527431 donor id: 28a. origin: Algeria. local name: Tefsut. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 28a. locality: Farmhouse, under palms, semi-open area, sandy soil, El Golea towards Wagda. elevation: 397m. remarks: Seeds white. Grown for many generations. Sown May-June, harvested October. Irrigated. Used for animal feed. Farmer: Sadai Mohammed, Wagda. Cultivated. Seed.
- PI 527432 donor id: 28b. origin: Algeria. local name: Tefsut. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 28b. locality: Farmhouse, under palms, semi-open area, sandy soil, El Golea towards Wagda. elevation: 397m. remarks: Seeds red. Grown for many generations. Sown May-June, harvested October. Irrigated. Used for animal feed. Farmer: Sadai Mohammed, Wegda. Cultivated. Seed.
- PI 527433 donor id: 32. origin: Algeria. local name: Tefsout. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 32. locality: Farmhouse, under palms, semi-open area, sandy soil, El Golea towards Wegda. elevation: 397m. remarks: Grown for many generations. Sown May, harvested October. Irrigated. Used for animal feed. Farmer: Behus Bel Meshrah, Wegda. Cultivated. Seed.

PI 527427 to 527446-continued

- PI 527434 donor id: 51. origin: Algeria. local name: Tefsout. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 51. locality: Farmhouse, under palms, semi-open area, sandy soil, El Golea towards Bel Bashier. elevation: 397m. remarks: Grown for generations. Sown May, harvested October/November. Used for animal feed and border around vegetables. Farmer: Ibrahim Mohammed, Bel Bashier. Cultivated. Seed.
- PI 527435 donor id: 53. origin: Algeria. local name: Tefsot. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 53. locality: Farmhouse, under palms, semi-open area, sandy soil, El Golea towards Wagda. elevation: 397m. remarks: Grown for generations. Sown May, harvested October/November. Irrigated. Used for animal feed. Farmer: Hamele Ahmad, Bel Bashier. Cultivated. Seed.
- PI 527436 donor id: 55. origin: Algeria. local name: Tefsut. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 55. locality: Garden, semi-open area, sandy soil, El Golea towards Old Kasar. elevation: 397m. remarks: Crooked neck on inflorescence. Grown for generations. Sown May, harvested October. Irrigated. Used for animal feed. Farmer: Zaidi Mohammed, Old Kasar. Cultivated. Seed.
- PI 527437 donor id: 57. origin: Algeria. local name: Tefsout. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 57. locality: Garden, under palms, sandy soil, Ain Salah towards Berkada II. elevation: 290m. remarks: Durra type. Grown for generations. Sown May, harvested October/November. Irrigated. Used for animal feed. Farmer: Mesri Ahamed, Berkada II. Cultivated. Seed.
- PI 527438 donor id: 61. origin: Algeria. local name: Tefsout. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 61. locality: Garden, under palms, semi-open area, sandy soil, 45km SW of Ain-Salah towards Fouggarrah El-Zowa. elevation: 290m. remarks: Plants abundant, grown for generations. Sown June/July, harvested October/November. Irrigated. Used for animal feed. Farmer: Bakadir Abdel Kader, Fouggarrah El-Zowa. Cultivated. Seed.



PI 527427 to 527446-continued

- PI 527439 donor id: 70. origin: Algeria. local name: Tefsout. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 70. locality: Garden, semi-open area under palms, sandy soil, Ain-Salah. elevation: 290m. remarks: Plants abundant, grown for generations. Seeds red. Sown May, harvested October/November. Irrigated. Used for animal feed. Farmer: Bel Medni Mohammed, Fouggarrah El-Zowa. Cultivated. Seed.
- PI 527440 donor id: 71. origin: Algeria. local name: Tefsout. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 71. locality: Garden, semi-open area under palms, sandy soil, Ain-Salah. elevation: 290m. remarks: Inflorescence open. Plants abundant, grown for generations. Sown May, harvested October/November. Irrigated. Used for animal feed. Farmer: Bobaker. Cultivated. Seed.
- PI 527441 donor id: 72. origin: Algeria. local name: Tefsout. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 72. locality: Garden, semi-open area under palms, sandy soil, Ain-Salah. elevation: 290m. remarks: Inflorescence loose. Plants abundant, grown for generations. Sown May, harvested October/November. Used for animal feed. Farmer: Jeoalil Ahmed, Sehla Tehtania. Cultivated. Seed.
- PI 527442 donor id: 77. origin: Algeria. local name: Tefsout. collected: October 17, 1984. collector: K.W. Hilu, J. Randall. collector id: 77. locality: Garden, under palms with peanuts, sandy soil, 5km E of Reggane towards Taourirt. remarks: Plants abundant. Sown May, harvested October/November. Irrigated. Used for animal feed and human consumption (couscous). Farmer: Ammama Bouwaamma, Tourirt. Cultivated. Seed.
- PI 527443 donor id: 82. origin: Algeria. local name: Tefsout. collected: October 18, 1984. collector: K.W. Hilu, J. Randall. collector id: 82. locality: Garden, semi-open to open area, sandy soil, 11km SE of Adrar towards Tamanteit. remarks: Durra type. Sown May, harvested October/November. Irrigated. Used for animal feed. Farmer: Berkawi Mohammed. Cultivated. Seed.
- PI 527444 donor id: 121. origin: Algeria. local name: Tefsout. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 121. locality: Garden, semi-open area under palms, 4km N of Timimoun towards Macine. remarks: Durra type. Sown May, harvested October/November. Irrigated. Used for animal feed. Farmer: Moule Mohammed Abdullah. Cultivated. Seed.

PI 527427 to 527446-continued

PI 527445 donor id: 132. origin: Algeria. local name: Tefsout. collected: October 22, 1984. collector: K.W. Hilu, J. Randall. collector id: 132. locality: Garden, under palms, sandy soil, Taghit. remarks: Sown May, harvested October. Irrigated. Used for animal feed. Farmer: Sudan Belkhier, Taghit. Cultivated. Seed.

PI 527446 donor id: 151. origin: Algeria. local name: Segla. collected: October 23, 1984. collector: K.W. Hilu, J. Randall. collector id: 151. locality: Farm house, under palms, sandy soil, Bechar. remarks: Sown May, harvested October. Irrigated. Used for animal feed Farmer: Eisanni Eleid, Bechar. Cultivated. Seed.

PI 527447 to 527461. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Hilu, K.W.; Randall, J., Department of Biology, Virginia Polytechnic Institute, Blacksburg, Virginia, United States. remarks: Received through IBPGR, Rome, Italy. Received March 21, 1985.

PI 527447 donor id: 63. origin: Algeria. local name: Kammah. collected: October 16, 1984. collector: K.W. Hilu, J. Randall. collector id: 63. locality: Farmhouse, under palms, semi-open area, Ain-Salah. elevation: 290m. remarks: Plants abundant, grown for generations. Sown October, harvested April. Irrigated. Used for food. Farmer: Bakidir Abdel Koder, Foussarra El-Zowa. Cultivated. Seed.

PI 527448 donor id: 78. origin: Algeria. local name: Kammah. collected: October 17, 1984. collector: K.W. Hilu, J. Randall. collector id: 78. locality: Farmhouse, semi-open area, sandy soil, 5km E of Reggane towards Taourirt. remarks: Sown October, harvested April. Irrigated. Used for food and fodder. Farmer: Ammama Bouwaamma, Taourirt. Cultivated. Seed.

PI 527449 donor id: 85. origin: Algeria. local name: Kammah. collected: October 18, 1984. collector: K.W. Hilu, J. Randall. collector id: 85. locality: Farmhouse, semi-open area, sandy soil, 60km N of Adrar towards Tsabit. remarks: Sown October, harvested April. Irrigated. Used for food. Cultivated. Seed.

PI 527447 to 527461-continued

- PI 527450 donor id: 90. origin: Algeria. local name: Shaier. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 90. locality: Field, open area, sandy soil, 5km W of Timimoun towards Beni Mehlal. remarks: Plants abundant. Sown October, harvested April. Irrigated. Used for food. Farmer: Ahamed Bu Wehda, Beni Mehlal. Cultivated. Seed.
- PI 527451 donor id: 94. origin: Algeria. local name: Kammah. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 94. locality: Farmhouse, semi-open area, sandy soil, 5km W of Timimoun towards Beni Mehlal. remarks: Plants abundant. Sown October, harvested May. Irrigated. Used for food. Farmer: Homaid-Abdul-Kadir. Cultivated. Seed.
- PI 527452 donor id: 100. origin: Algeria. local name: Kammah. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 100. locality: Farmhouse, semi-open to open area, sandy soil, 13km W of Timimoun towards Toursiet. remarks: Plants abundnat. Sown October, harvested April/May. Irrigated. Used for food. Farmer: Behsin Abdullah, Toursiet. Cultivated. Seed.
- PI 527453 donor id: 107. origin: Algeria. local name: Kammah. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 107. locality: Farmhouse, open area, sandy soil, 4km N of Timimoun towards Macine. remarks: Plants abundant. Sown October, harvested May. Irrigated. Used for food. Farmer: Mulla Salah, Macine. Cultivated. Seed.
- PI 527454 donor id: 110. origin: Algeria. local name: Kammah. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 110. locality: Farmhouse, semi-open area, sandy soil, 4km N of Timimoun towards Macine. remarks: Plants abundant. Sown October, harvested May. Irrigated. Used for food. Farmer: Mulla Salah, Macine. Cultivated. Seed.
- PI 527455 donor id: 114. origin: Algeria. local name: Kammah. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 114. locality: Farmhouse, open area, sandy soil, 15km W of Timimoun towards Al Wajjda. remarks: Plants abundant. Sown October, harvested May. Irrigated. Used for food. Farmer: Ahammed Norjan, Toursiet. Cultivated. Seed.

PI 527447 to 527461-continued

- PI 527456 donor id: 120. origin: Algeria. local name: Kammah. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 120. locality: Farmhouse, open area, sandy soil, 4km N of Timimoun towards Macine. remarks: Plants abundant. Sown October, harvested May. Irrigated. Used for food. Farmer: Moule Mohammed Abdullah. Cultivated. Seed.
- PI 527457 donor id: 130. origin: Algeria. local name: Kammah. collected: October 21, 1984. collector: K.W. Hilu, J. Randall. collector id: 130. locality: Farmhouse, semi-open to open area, sandy soil, Beni-Abbes. remarks: Plants abundant. Sown October, harvested May. Irrigated. Used for food. Farmer: Makhtar Bouda, Beni-Abbes. Cultivated. Seed.
- PI 527458 donor id: 136. origin: Algeria. local name: Kammah. collected: October 23, 1984. collector: K.W. Hilu, J. Randall. collector id: 136. locality: Farmhouse, open area, sandy soil, 35km N of Bechar towards Al-Ahmir. remarks: Plants abundant. Sown November, harvested June-July. Irrigated. Used for food and fodder. Farmer: Ebrahim Elrahim, Al-Ahmir. Cultivated. Seed.
- PI 527459 donor id: 140. origin: Algeria. local name: Kammah. collected: October 23, 1984. collector: K.W. Hilu, J. Randall. collector id: 140. locality: Farmhouse, open area, sandy soil, 50km NW of Bechar towards Bukeis. remarks: Plants abundant. Sown October, harvested May. Irrigated. Used for food. Farmer: Mohammed Majour. Cultivated. Seed.
- PI 527460 donor id: 147. origin: Algeria. local name: Kammah. collected: October 23, 1984. collector: K.W. Hilu, J. Randall. collector id: 147. locality: Farmhouse, open area, sandy soil, 5km E of Bechar towards Wagda. remarks: Plants abundant. Sown October, harvested April. Irrigated. Used for food. Farmer: Faresi Abdul Malik. Cultivated. Seed.
- PI 527461 donor id: 154. origin: Algeria. local name: Kammah. collected: October 23, 1984. collector: K.W. Hilu, J. Randall. collector id: 154. locality: Farmhouse, open area, sandy soil, Bechar. remarks: Plants abundant. Sown October, harvested May. Irrigated. Used for food. Farmer: Eisanni Eleid, Bechar. Cultivated. Seed.

PI 527462 to 527463. *Triticum durum* Desf. POACEAE

**Donated by:** Hilu, K.W.; Randall, J., Department of Biology, Virginia Polytechnic Institute, Blacksburg, Virginia, United States.  
**remarks:** Received through IBPGR, Rome, Italy. Received March 21, 1985.

PI 527462 **donor id:** 10. **origin:** Algeria. **local name:** Kameh.  
**collected:** October 10, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 10. **locality:** Farmhouse, sandy soil, Sidi Ameur. **remarks:** Plants abundant. Inflorescences 10-15cm long, awned. Sown November, harvested June. Irrigated. Used for bread, coucous, soup, sweets. Farmer: Tadjin Mahamed, Mabjabja farm. Cultivated. Seed.

PI 527463 **donor id:** 42. **origin:** Algeria. **local name:** Kammeh.  
**collected:** October 14, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 42. **locality:** Farmhouse, under palms, semi-open area, sandy soil, El Golea towards Old Khasir. **elevation:** 397m. **remarks:** Grown for generations. Sown May, harvested September. Irrigated. Used for food. Farmer: Ben Khadda Abdul Rahman, Old Khasir. Cultivated. Seed.

PI 527464 to 527478. *Zea mays* L. POACEAE Corn

**Donated by:** Hilu, K.W.; Randall, J., Department of Biology, Virginia Polytechnic Institute, Blacksburg, Virginia, United States.  
**remarks:** Received through IBPGR, Rome, Italy. Received March 21, 1985.

PI 527464 **donor id:** 8. **origin:** Algeria. **local name:** Mastorah, Bishna. **collected:** October 10, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 8. **locality:** Farmhouse, open area or under palms, sandy soil, Temacine, 9Km S of Touggourt. **remarks:** Plants 1.5m tall, rare. Branches few. Inflorescences 10-15cm long, yellow. Sown April, harvested May. Used for good, border plant in barley and vegetable fields. Farmer: Boumeaua Heb-Mohammed. Cultivated. Seed.

PI 527465 **donor id:** 19. **origin:** Algeria. **local name:** Mays, Maiz.  
**collected:** October 13, 1984. **collector:** K.W. Hilu, J. Randall. **collector id:** 19. **locality:** Farmhouse, sandy soil, NW of Gahardaia towards Al Ehdira. **remarks:** Grown for generations. Sown April, harvested July/August. Irrigated. Used for food, animal food, and border plant around vegetables. Farmer: Saleh and Saeid Boshen. Cultivated. Seed.

PI 527464 to 527478-continued

- PI 527466 donor id: 30. origin: Algeria. local name: Elkobbel. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 30. locality: Farmhouse, under palms, semi-open area, sandy soil, El Golea towards Wagda. elevation: 397m. remarks: Rare. Sown August, harvested October. Irrigated. Used for feed, and as border plant. Farmer: Sadai Mohammed, Wagda. Cultivated. Seed.
- PI 527467 donor id: 38. origin: Algeria. local name: Koubl. collected: October 14, 1984. collector: K.W. Hilu, J. Randall. collector id: 38. locality: Farmhouse, open area, sandy soil, El Golea, Old Khasir (Vieux-Ksar). elevation: 397m. remarks: Grown for many generations. Sown February/May/August, harvested April until winter (usually 3 times). Irrigated. Used for food or forage. Farmer: Ben Khadda Abdul Rahma. Cultivated. Seed.
- PI 527468 donor id: 76. origin: Algeria. local name: Kouboul. collected: October 17, 1984. collector: K.W. Hilu, J. Randall. collector id: 76. locality: Farmhouse, semi-open, under some palms, sandy soil, 5km E of Reggane towards Taouirit. remarks: Sown September, harvested December. Irrigated. Used for fodder. Farmer: Ammama Bouwaamma, Taourirt. Cultivated. Seed.
- PI 527469 donor id: 83. origin: Algeria. collected: October 18, 1984. collector: K.W. Hilu, J. Randall. collector id: 83. locality: Farmhouse, semi-open to open area, sandy soil, 11km SE of Adrar towards Tamanteit. remarks: Sown January, harvested May/June and sown June, harvested October. Used for animal feed, seeds eaten. Farmer: Emrawi Mohammed, Tamanteit. Cultivated. Seed.
- PI 527470 donor id: 86. origin: Algeria. local name: Kouboul. collected: October 18, 1984. collector: K.W. Hilu, J. Randall. collector id: 86. locality: Farmhouse, open to semi-open area, sandy soil, 60km N of Adrar towards Tasbit. remarks: Sown October, harvested April. Irrigated. Used for animal feed, seeds eaten. Cultivated. Seed.
- PI 527471 donor id: 113. origin: Algeria. local name: Kubul. collected: October 20, 1984. collector: K.W. Hilu, J. Randall. collector id: 113. locality: Garden, open area, sandy soil, 13km W of Timimoun towards Toursiet. remarks: Sown March/May, harvested August/November. Irrigated. Used for food and animal feed. Farmer: Behsin Abdullah, Toursiet. Cultivated. Seed.

PI 527464 to 527478-continued

- PI 527472 donor id: 116. origin: Algeria. local name: Kou Boul.  
collected: October 20, 1984. collector: K.W. Hilu, J.  
Randall. collector id: 116. locality: Farmhouse,  
Timimoun. remarks: Sown October, harvested April.  
Irrigated. Used for food and animal feed. Farmer: Totao  
Ahammed Ken Abdul-Kareem, Macine. Cultivated. Seed.
- PI 527473 donor id: 137. origin: Algeria. local name: Beshna,  
Durrah. collected: October 23, 1984. collector: K.W.  
Hilu, J. Randall. collector id: 137. locality:  
Farmhouse, open area, sandy soil, 50km NW of Bechar  
towards Bukeis. remarks: Sown July, harvested September.  
Irrigated. Used for food and animal feed. Farmer: Ebrahim  
Elrahim, Al-Ahmir. Cultivated. Seed.
- PI 527474 donor id: 139. origin: Algeria. local name: Durrah.  
collected: October 23, 1984. collector: K.W. Hilu, J.  
Randall. collector id: 139. locality: Farmhouse, open  
area, sandy soil, 50km NW of Bechar towards Bukeis.  
remarks: Sown July, harvested September. Irrigated. Used  
for food and animal feed. Farmer: Kaddory Mohammed,  
Bukeis. Cultivated. Seed.
- PI 527475 donor id: 141. origin: Algeria. local name: Durrah.  
collected: October 23, 1984. collector: K.W. Hilu, J.  
Randall. collector id: 141. locality: Farmhouse, open  
area, sandy soil, 50km NW of Bechar, towards Bukeis.  
remarks: Sown March/May, harvested July/September. Used  
for food, mixed with wheat. Farmer: Mohammed Majour,  
Bukeis. Cultivated. Seed.
- PI 527476 donor id: 149. origin: Algeria. local name: Bushna.  
collected: October 23, 1984. collector: K.W. Hilu, J.  
Randall. collector id: 149. locality: Farmhouse, open  
area, sandy soil, 5km E of Bechar towards Bukeis.  
remarks: Sown May, harvested July. Irrigated. Used for  
food and animal feed. Farmer: Faresi Abdul Malik, Wagda.  
Cultivated. Seed.
- PI 527477 donor id: 156. origin: Algeria. local name: Durrah.  
collected: October 23, 1984. collector: K.W. Hilu, J.  
Randall. collector id: 156. locality: Farmhouse, open  
area, sandy soil, Bechar. remarks: Sown June, harvested  
October. Irrigated. Used for animal feed and as  
windbreak. Farmer: Eisanni Eleid, Bechar. Cultivated.  
Seed.

PI 527464 to 527478-continued

PI 527478 donor id: 157. origin: Algeria. local name: Beshna, Durrah. collected: October 23, 1984. collector: K.W. Hilu, J. Randall. collector id: 157. locality: Farmhouse, open area, sandy soil, Bechar. remarks: Sown March, harvested June. Irrigated. Used for food. Farmer: Al Hamel Steisief, Bechar. Cultivated. Seed.

PI 527479. *Medicago sativa* nsubsp. *varia* (Martyn) Arcang. FABACEAE

Donated by: Reid, R., IBPGR, Rome, Italy. remarks: Received through Jim Suttie, Agr. Officer, FAO. Received July 28, 1988.

origin: China, Peoples Repub of. pedigree: *M. sativa* subsp. *sativa*/ *M. sativa* subsp. *falcata*. collector: Jim Suttie. other id: FAO No. 68.540. locality: Threshing floor at Altai, Xinjiang. latitude: 49 deg. N. elevation: 1200m. remarks: Precipitation 250mm, mainly as snow. Used for aerial sowing. Cultivated. Seed.

PI 527480. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Schaffer, V.A., Department of Agronomy, Kansas State University, Throckmorton Hall, Manhattan, Kansas, United States. remarks: Cooperatively developed by the Kansas Agricultural Experiment Station and the USDA-ARS. Received December 16, 1988.

donor id: KS 831374. origin: United States. cultivar: KARL. pedigree: Plainsman V/3/Kaw/Atlas 50//Parker\*5/Agent. remarks: Plants awned, white-glumed, short, hard, red type. Maturity early. Hard wheat milling and baking quality excellent. Test weight patterns excellent. Moderately susceptible to stem rust (SR 2), Septoria and powdery mildew. Susceptible to Hessian fly. disease resistance: Soil borne mosaic and spindle streak mosaic viruses. Protection against leaf rust and tan spot. Winter Annual. Cultivar. Seed.

PI 527481 to 527483. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Porter, K.B., Texas Agric. Experiment Station, Texas A&M University, P.O. Drawer O, Bushland, Texas, United States. Received December 21, 1988.



PI 527481 to 527483-continued

PI 527481 donor id: TXGH10563B. origin: United States. pedigree: (TAM 105\*4/Amigo)\*4//Largo. remarks: Plants awned, semidwarf, similar to TAM 107 in appearance, height and maturity. Hard red type. Photoperiod insensitive. Chaff brown. Winter survival good. Susceptible to leaf rust (*Puccinia recondita* f. sp. *tritici*, soil borne mosaic, *Septoria* spp. and to the Russian wheat aphid (*Diuraphis noxia*). Grain protein content and physical dough properties less than desirable for commercial release. disease resistance: Powdery mildew (*Erysiphe graminis* f. sp. *tritici*). Amigo resis. to stem rust (*Puccinia graminis* f. sp. *tritici*). insect resistance: Biotypes B,C, and E of greenbug. Wheat curl mite. Winter Annual. Breeding Material. Seed.

PI 527482 donor id: TXGH10989. origin: United States. pedigree: (TAM W-101\*4/Amigo)\*4//Largo. other id: GP-320. group: CSR-WHEAT. remarks: Plants awned, semidwarf, similar to TAM 101 in appearance, height and maturity. Hard red type. Photoperiod sensitive. Chaff white to light brown. Winter survival fair. Susceptible to leaf rust (*Puccinia recondita* f. sp. *tritici*, soil borne mosaic, *Septoria* spp. and to Russian wheat aphid (*Diuraphis noxia*). Grain protein content and physical dough properties less than desirable for commercial release. disease resistance: Powdery mildew (*Erysiphe graminis* f. sp. *tritici*). Amigo resis. to stem rust (*Puccinia graminis* f. sp. *tritici*). insect resistance: Biotypes B,C, and E of greenbug. Wheat curl mite. Winter Annual. Breeding Material. Seed.

PI 527483 donor id: TXGH13622. origin: United States. pedigree: (TX71A562-6\*4/Amigo)\*4//Largo. other id: GP-321. group: CSR-WHEAT. remarks: Plants awned, semidwarf, resembles TAM 108 but 3-4 days earlier. Hard red type. Photoperiod insensitive. Chaff white. Winter survival fair-good. Susceptible to leaf rust (*Puccinia recondita* f. sp. *tritici*), *Septoria* spp., and to Russian wheat aphid (*Diuraphis noxia*). disease resistance: Powdery mildew (*Erysiphe graminis* f. sp. *tritici*). Amigo resis. to stem rust. Soil borne mosaic virus. insect resistance: Biotypes B,C, and E of greenbug. Wheat curl mite. Winter Annual. Breeding Material. Seed.

PI 527484 to 527491. *Dactylis glomerata* L. POACEAE Orchardgrass

Donated by: Bonjean, A., Verneuil Recherches, L'Etang BP No. 3, 77390 Verneuil L'Etang, France. Received December 1, 1988.

PI 527484 to 527491-continued

- PI 527484 donor id: 08.13164. origin: France. collected: 1982.  
other id: code post 64260. locality: Rock garden,  
Helette. elevation: 200m. remarks: Soil acid.  
Perennial. Wild. Seed.
- PI 527485 donor id: 08.14015. origin: France. collected: 1983.  
other id: code post 17460. locality: Roadway, D.25  
sortie Bourg, Preguillac. elevation: 20m. remarks:  
Soil calcareous. Perennial. Wild. Seed.
- PI 527486 donor id: 08.14055. origin: France. collected: 1983.  
other id: code post 24400. locality: Old meadow prairie,  
La Conne, Bergerac. elevation: 80m. remarks: Soil  
pebbly, calcareous. Perennial. Wild. Seed.
- PI 527487 donor id: 08.14126. origin: France. collected: 1983.  
other id: code post 19130. locality: Edge of roadway,  
Laval, St. Solve. elevation: 400m. remarks: Soil  
pebbly, acid. Perennial. Wild. Seed.
- PI 527488 donor id: 08.15223. origin: France. collected: 1984.  
other id: code post 82400. locality: Hedge next to a  
field, Rouzel, Goudourville. elevation: 120m. remarks:  
Soil loamy. Perennial. Wild. Seed.
- PI 527489 donor id: 08.15242. origin: France. collected: 1984.  
other id: code post 82500. locality: Roadway, Tressols,  
St. Jean Cauquessac. elevation: 180m. remarks: Soil  
pebbly, calcareous. Perennial. Wild. Seed.
- PI 527490 donor id: 08.15309. origin: France. collected: 1984.  
other id: code post 81340. locality: Prairie, La  
Barbastie, Padies. elevation: 300m. remarks: Soil  
pebbly, acid. Perennial. Wild. Seed.
- PI 527491 donor id: 08.15353. origin: France. collected: 1984.  
other id: code post 46140. locality: Uncultivated field,  
Courailon, Luzech. elevation: 140m. remarks: Soil  
pebbly, calcareous. Perennial. Wild. Seed.

PI 527492 to 527506. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by: Bonjean, A., Verneuil Recherches, L'Etang BP No. 3,  
77390 Verneuil L'Etang, France. Received December 1, 1988.

- PI 527492 donor id: 06.101 902. origin: France. collected: 1982.  
other id: code post 17750. locality: Edge of roadway,  
Les Gdes Roches, Etaules. elevation: 50m. remarks:  
Soil calcareous. Perennial. Wild. Seed.

PI 527492 to 527506-continued

- PI 527493 donor id: 06.103 103. origin: France. collected: 1982.  
other id: code post 64290. locality: Edge of roadway,  
Gains, Bastide Clarence. elevation: 150m. remarks: Soil  
clay. Perennial. Wild. Seed.
- PI 527494 donor id: 06.103 112. origin: France. collected: 1982.  
other id: code post 64640. locality: Rock garden,  
Irissary, Helette. elevation: 250m. remarks: Soil acid.  
Perennial. Wild. Seed.
- PI 527495 donor id: 06.103 134. origin: France. collected: 1982.  
other id: code post 64260. locality: Prairie, Vers  
Lourdes, Louvie Juzon. elevation: 350m. remarks: Soil  
clay. Perennial. Wild. Seed.
- PI 527496 donor id: 06.103 142. origin: France. collected: 1982.  
other id: code post 65700. locality: Roadway, D.935,  
Ville-Franque. elevation: 200m. remarks: Soil clay.  
Perennial. Wild. Seed.
- PI 527497 donor id: 06.103 633. origin: France. collected: 1983.  
other id: code post 17210. locality: Uncultivated field,  
La Magdeleine, Chevanceaux. elevation: 100m. remarks:  
Soil calcareous. Perennial. Wild. Seed.
- PI 527498 donor id: 06.103 640. origin: France. collected: 1983.  
other id: code post 24410. locality: Pebbly prairie,  
Maijon, St. Aulaye. elevation: 110m. remarks: Soil  
calcareous. Perennial. Wild. Seed.
- PI 527499 donor id: 06.103 725. origin: France. collected: 1983.  
other id: code post 19130. locality: Pebbly edge of  
roadway, D.31 vers Objat, St. Solve. elevation: 400m.  
remarks: Soil acid. Perennial. Wild. Seed.
- PI 527500 donor id: 06.103 809. origin: France. collected: 1984.  
other id: code post 47200. locality: Edge of hedge,  
D.9.33, PN. 20, Virazeil. elevation: 80m. remarks:  
Soil calcareous. Perennial. Wild. Seed.
- PI 527501 donor id: 06.103 829. origin: France. collected: 1984.  
other id: code post 31340. locality: Prairie, LeCouston,  
Le Born. elevation: 180m. remarks: Soil acid.  
Perennial. Wild. Seed.
- PI 527502 donor id: 06.103 832. origin: France. collected: 1984.  
other id: code post 82370. locality: Uncultivated field,  
Le Clarix, Bastide St. Pierre. elevation: 80m.  
remarks: Soil loamy. Perennial. Wild. Seed.

PI 527492 to 527506-continued

- PI 527503 donor id: 06.103 865. origin: France. collected: 1984.  
other id: code post 81120. locality: Prairie, En Navare,  
Prades. elevation: 180m. remarks: Soil loamy clay.  
Perennial. Wild. Seed.
- PI 527504 donor id: 06.103 932. origin: France. collected: 1984.  
other id: code post 82300. locality: Pebbly roadway,  
Gretz, Montalzat. elevation: 220m. remarks: Soil acid.  
Perennial. Wild. Seed.
- PI 527505 donor id: 06.103 942. origin: France. collected: 1984.  
other id: code post 47500. locality: Uncultivated field,  
Le chemin Rouge, Fumel. elevation: 150m. Perennial.  
Wild. Seed.
- PI 527506 donor id: 06.103 950. origin: France. collected: 1984.  
other id: code post 46700. locality: Old prairie, D.  
911, Duravel. elevation: 160m. remarks: Soil pebbly,  
calcareous. Perennial. Wild. Seed.

Scientific Name Cross Reference

Abelmoschus esculentus	526221-526222, 527383	Gossypium hirsutum	520599, 520734-520747, 520750-520752, 525461-525489
Aegilops cylindrica	524429-524431	Helianthus annuus	526252-526267
Aegilops sp.	524952-524956	Hibiscus furcatus	525448
Aegilops triuncialis	524957	Hordeum vulgare	522162-522164, 522271, 525185-525195, 525199-525202, 525439-525446, 527380-527381
Allium cepa	522165-522172	Lactuca sativa	527327
Amaranthus cruentus	525498	Lespedeza cuneata	520753
Amaranthus sp.	526223-526230	Linum africanum	522273-522274
Amaranthus tricolor	527321	Linum alpinum	522275-522276
Arachis hypogaea	520600, 521361-521363	Linum altaicum	522277
Arachis sp.	527384-527385	Linum austriacum	522278-522284
Avena sativa	524422-524424, 525183	Linum bienne	522285-522291
Beta vulgaris	520748, 527307	Linum corymbiferum	522292-522294
Brassica pekinensis	527322-527324	Linum decumbens	522295
Cajanus sp.	521656	Linum flavum	522296-522297
Capsicum annum	525447, 525493-525494, 527325	Linum grandiflorum	522298-522301
Carthamus tinctorius	525457-525458	Linum humile	522302-522304
Citrullus colocynthis	525080-525083	Linum lewisii	522305-522306
Citrullus lanatus	525084-525100, 526231-526239	Linum marginale	522307-522308
Cleome gynandra	527382	Linum muelleri	522309
Cucumis melo	525101-525130	Linum narbonense	522310-522311
Cucumis melo var. flexuosus	525131-525149	Linum nervosum	522312
Cucumis sativus	525075, 525150-525165, 526240-526242	Linum pallescens	522313
Cucumis sp.	527386	Linum perenne	522314
Cucurbita maxima	525076	Linum sp.	522315-522331
Cucurbita moschata	524425-524428, 527326	Linum usitatissimum	522332-524420
Cucurbita pepo	525166-525182, 526243-526251	Lolium perenne	525459
Dactylis glomerata	527484-527491	Luffa aegyptiaca	527331
Daucus carota	522173-522178	Luziola sp.	527358
Eleusine coracana	521364-521610, 521657	Lycopersicon esculentum	525077, 527328-527330
Elymus glaucus	527333	Medicago sativa	522238-522245, 524966-524968, 525455, 525496, 527309, 527336, 527341-527357
Eragrostis tef	524433-524446	Medicago sativa nsubsp. varia	527479
Festuca arundinacea	520749, 527492-527506	Nicotiana tabacum	520754, 527308, 527337-527338
Festuca longifolia	525460	Oryza alta	527359-527360
Glycine max	520732-520733, 522186-522192, 522236-522237, 524993-524994, 525453-525454, 525490-525492	Oryza rufipogon	527361-527379
Glycine soja	522179-522184, 522193-522235	Oryza sativa	521359-521360
		Oxytropis riparia	525497
		Paspalum sp.	521658
		Pennisetum glaucum	521611-521655, 521659-521672, 526268-526594, 527387-527426
		Pennisetum pedicellatum	520611-

520619  
 Pennisetum violaceum 520620  
 Phaseolus acutifolius 527334  
 Phaseolus acutifolius  
 var. latifolius 527335  
 Phaseolus vulgaris 520603-  
 520607, 522246, 525078, 527310-  
 527311  
 Pisum sativum 524962-524965  
 Poa pratensis 527312  
 Ricinus communis 525449  
 Secale cereale 522185, 525203-  
 525207  
 Solanum melongena 525495  
 Solanum tuberosum 525184,  
 527314-527320  
 Sorghum arundinaceum 520775-  
 520803, 524568, 524718  
 Sorghum bicolor 520602, 520804-  
 521327, 521673-521856, 521858-  
 522095, 522247, 524421, 524447-  
 524567, 524569-524717, 524719-  
 524951, 524958-524961, 524995-  
 525069, 525499-526153, 526595-  
 527253, 527427-527446  
 Sorghum sp. 522096-522161,  
 526154-526220, 527254-527256  
 Sorghum x drummondii 521328-  
 521358  
 Spinacia oleracea 527332  
 Trifolium alexandrinum 520601  
 Trifolium hybrid 520608  
 Trifolium repens var. repens  
 520755  
 Trifolium sp. 524432  
 Triticum aestivum 520756-  
 520760, 522272, 524971-524992,  
 525070-525074, 525196-525198,  
 525208-525332, 525450-525452,  
 525456, 527447-527461, 527480-  
 527483  
 Triticum durum 525333-525438,  
 527462-527463  
 Vigna unguiculata 527257-  
 527306  
 X Triticosecale sp. 527339-  
 527340  
 Zea mays 520609-520610, 520623-  
 520731, 520761-520774, 521857,  
 522248-522270, 524969-524970,  
 525079, 527313, 527464-527478  
 Zornia glochidiata 520621-  
 520622

Common Name Cross Reference

Alfalfa	522238-522245,524966-524968,525455,525496,527309,527336,527341-527357	Rice	521359-521360
Barb goatgrass	524957	Rye	522185,525203-525207
Barley	522162-522164,522271,525185-525195,525199-525202,525439-525446,527380-527381	Safflower	525457-525458
Bell pepper	525447,525493-525494	Sericea lespedeza	520753
Berseem clover	520601	Snake cucumber	525131-525149
Blue wildrye	527333	Sorghum	520602,520775-521358,521673-521856,521858-522095,522247,524421,524447-524567,524569-524717,524719-524951,524958-524961,524995-525069,525499-526153,526595-527253,527427-527446
Carrot	522173-522178	Soybean	520732-520733,522186-522192,522236-522237,524993-524994,525453-525454,525490-525492
Castorbean	525449	Spinach	527332
Chinese cabbage	527322-527324	Squash	525166-525182
Colocynth	525080-525083	Sugarbeet	520748,527307
Common oat	524422-524424,525183	Sunflower	526252-526267
Common wheat	520756-520760,522272,524971-524992,525070-525074,525196-525198,525208-525332,525450-525452,525456,527447-527461,527480-527483	Tall fescue	520749,527492-527506
Corn	520609-520610,520623-520731,520761-520774,521857,522248-522270,524969-524970,525079,527313,527464-527478	Teff	524433-524446
Cotton	520599,520734-520747,520750-520752,525461-525489	Tepary bean	527334-527335
Cucumber	525075,525150-525165,526240-526242	Tobacco	520754,527308,527337-527338
Durum wheat	525333-525438	Tomato	525077,527328-527330
Eggplant	525495	Triticale	527339-527340
Finger millet	521364-521610,521657	Vegetable sponge	527331
Flax	522332-524420	Watermelon	525084-525100,526231-526239
Garden bean	520603-520607,525078	White clover	520755
Garden pea	524962-524965	Wild soybean	522179-522184,522193-522235
Jointed goatgrass	524429-524431	Winter squash	527326
Kentucky bluegrass	527312		
Lettuce	527327		
Okra	526221-526222,527383		
Onion	522165-522172		
Orchardgrass	527484-527491		
Peanut	520600,521361-521363		
Pearl millet	521611-521655,521659-521672,526268-526594		
Pepper	527325		
Perennial ryegrass	525459		
Pigeon pea	521656		
Pinto bean	522246,527310-527311		
Potato	525184,527314-527320		
Pumpkin	526243-526251		

## Acronyms

For space conservation and consistency in identifying locations, the following acronyms have been used in Plant Inventory No. 197:

- ARS - Agricultural Research Service (U.S. Department of Agriculture)
- CENARGEN - Centro Nacional de Recursos Geneticos (Brazil)
- CIMMYT - Centro Internacional de Mejoramiento de Mejoramiento de Maiz y Trigo (Mexico)
- FAO - Food and Agriculture Organization of the United Nations
- IBPGR - International Board for Plant Genetic Resources
- ICRISAT - International Crops Research Institute for Semi-Arid Tropics (India)
- INTA - Instituto Nacional de Tecnologia Agropecuaria (Argentina)
- ORSTOM - Office de la Recherche Scientifique et Technique d'Outre Mer (France)
- SCS - Soil Conservation Service (U.S. Department of Agriculture)
- USAID - U.S. Agency for International Development
- VIR - N.I. Vavilov Institute of Plant Industry (USSR)